

TABLE OF CONTENTS

About Lehman College.....	4
Admissions.....	12
Tuition, Fees, and Financial Aid.....	17
Baccalaureate Programs	28
Academic Services and Policies	45
Academic Departments and Programs	64
Courses	201
Campus Facilities and Resources	423
Faculty and Administration	431
Appendix.....	456

2019-2021 Undergraduate Bulletin

Lehman College Bulletins (Catalogs) include information about admission requirements, continuation requirements, courses, degree requirements, and tuition and fees. The online Bulletins are updated periodically throughout the calendar year and provide the most current information for prospective students or for general review. Current students generally follow program requirements based on their date of matriculation, subject to changes in State requirements. All students must speak with a faculty adviser to confirm their requirements.

**Lehman College
The City University of New York
250 Bedford Park Blvd. West
Bronx, NY 10468
718-960-8000
www.lehman.edu**

Important Notice of Possible Changes

The City University of New York reserves the right, because of changing conditions, to make modifications of any nature in the academic programs and requirements of the University and its constituent colleges without notice. Tuition and fees set forth in this publication are similarly subject to change by the Board of Trustees of the City University of New York. The University regrets any inconvenience this may cause.

The responsibility for compliance with the regulations in each Bulletin rests entirely with the student. The curricular requirements in this Bulletin apply to those students matriculated in the 2019-2020 and 2020-2021 academic years. This Bulletin reflects policies, fees, curricula, and other information as of September 2019.

Statement of Nondiscrimination

Herbert H. Lehman College is an Equal Opportunity and Affirmative Action Institution. The College does not discriminate on the basis of race, color, national or ethnic origin, religion, age, sex, sexual orientation, transgender, marital status, disability, genetic predisposition or carrier status, alienage or citizenship, military or veteran status, or status as victim of domestic violence in its student admissions, employment, access to programs, and administration of educational policies.

Mrs. Dawn Ewing-Morgan is the College affirmative action officer; coordinator for Title IX, which prohibits sex discrimination in Federally assisted education programs; and coordinator for the Age Discrimination Act, which prohibits age discrimination in Federally assisted education programs. Her office is located in Shuster Hall, Room 352, and her telephone number is 718-960-8111. She is also the College coordinator for the Americans with Disabilities Act and Section 504, which prohibit discrimination on the basis of disability.

About Lehman College

History of Lehman College

Lehman College was established as an independent unit of The City University of New York on July 1, 1968, following a decision by the University's Board of Trustees to create a comprehensive senior college in the Bronx with its own faculty, curriculum, and administration.

The College took over the campus that, since 1931, had served as the Bronx branch of Hunter College, known as Hunter-in-the-Bronx. Adjacent to the historic Jerome Park Reservoir, the first four buildings in the plan-Gillet and Davis halls, the Music Building, and the Gymnasium-were completed in 1931 by the New York State WPA. The original campus plan called for nine buildings, but the Great Depression delayed construction, and the ambitious plan was later abandoned by Mayor Fiorello H. LaGuardia.

For a decade before the entry of the United States in the Second World War, only women students attended, taking their first two years of study at the Bronx campus and then transferring to Hunter's Manhattan campus to complete their undergraduate work.

Shortly after U.S. entry into the war, the students and faculty vacated the campus and turned over the facilities to the U.S. Navy, which used them as a training station for the newly organized WAVES (Women Accepted for Volunteer Emergency Service).

To commemorate this period, the Navy later installed a ship's bell from the U.S.S. Columbia on the campus. In 1946 the campus won a niche in world history when it was made available to the United Nations at the urging of New York City officials. From March to August 1946, the first American meetings of the Security Council were held in the Gymnasium Building where intercollegiate basketball, archery, swimming, and other sports have been played. During festivities marking the 40th anniversary of the United Nations in 1986, the Southern New York State Division of the United Nations Association presented the College with a commemorative plaque, now displayed outside the Gymnasium Building. The College participated in the United Nations' 50th anniversary activities in 1995-96.

Normal collegiate activity resumed at the campus in 1947, but, in addition to women, the Bronx branch began accepting former servicemen, who studied in separate classes. In 1951 the campus became fully coeducational and a four-year curriculum was introduced. The process of separating the

Bronx campus from Hunter College into a separate unit began in 1967. Dr. Leonard Lief, chairman of the English Department, was named provost and made responsible for overseeing the transition. On July 1, 1968, Lehman College began an independent existence, with Dr. Lief as president.

The Board of Higher Education named the new college after Herbert H. Lehman, in recognition of the commitment to public service exemplified by the four-time governor of New York State who later became a U.S. Senator and was the first director-general of UNRRA (the United Nations Relief and Rehabilitation Administration). The College was formally dedicated on March 28, 1969, the 91st anniversary of Governor Lehman's birth. Each year, on or about March 28, the College commemorates the double anniversary by inviting a distinguished speaker to deliver the Herbert H. Lehman Memorial Lecture.

Much has occurred at the colleges of the City University since 1968. As the only CUNY senior college in the borough and southern Westchester County, Lehman College has adapted to meet changing conditions and is poised to respond to new needs and challenges.

On the undergraduate level, Lehman's General Education Curriculum is designed to provide a broad knowledge of the achievements and methods of the liberal arts and sciences and to develop student abilities to participate responsively in informed inquiry into subjects of both public and personal concern. It requires a series of courses in writing, mathematics, foreign language, and natural sciences. Students must also complete at least one course from a list of courses in seven areas: Individuals and Society; Socio-Political Structures; Literature; The Arts; Comparative Culture; Historical Studies; Knowledge, Self, and Values. In addition, students must complete two upper division interdisciplinary courses: one in Topics in the Humanities and the Sciences and one in the American Experience. To develop writing skills, students must complete four courses designated as writing-intensive. Major and minor fields of study are also required.

On the graduate level, the College has developed professional programs in nursing, teacher and counselor preparation, accounting, business, computer science, health services, public health, social work, and speech-language pathology. The College also offers strong traditional liberal arts graduate programs in art, biology, English, history, Spanish and mathematics.

For more than two decades, Lehman has deepened its involvement with the surrounding community. The opening of the Lehman Center for the Performing Arts in 1980 and the Lehman College Art Gallery in 1984 has made the College a cultural center for the region. Together with the City and the Humanities Program, the Department of Music, and the Theatre program, they present dozens of concerts, plays, dance performances, and exhibitions that are free or nominally priced.

The Art Gallery is housed in the Fine Arts Building, which was designed by the renowned architect Marcel Breuer - as was Shuster Hall, which houses the College's administrative offices. The Concert Hall, the adjacent Lehman College Library, and the two Breuer buildings offer a striking contrast to the Tudor-Gothic architecture of the original College buildings, providing an environment of considerable architectural interest. Anchoring the campus on its northern end is the APEX, designed by the internationally acclaimed architect Rafael Violy. Inside are sophisticated facilities for swimming, basketball, racquetball, weight training, track and field, and dance as well as new offices for security and academic departments.

One of the latest facilities to reach completion on the Lehman campus is Science Hall, a \$70 million science facility with updated, versatile classrooms, labs, and instrumentation; a rooftop teaching and research greenhouse; and environmentally sustainable technologies. The new building stands adjacent to Gillet Hall, and is accessible from the older building through a third-floor catwalk.

Another facility, the new Child Care Center, opened its doors in fall 2013. The center features six classrooms; a multipurpose room that can function as a playroom, after-school space or additional classroom; and a natural playground incorporating greenery, boulders and garden space, along with traditional playground equipment.

Lehman College also provides a variety of community services. The Institute for Literacy Studies sponsors classes to teach adults fundamentals of reading and writing, while the Speech and Hearing Center offers comprehensive evaluations of hearing and speech-language disorders.

There is close collaboration between the College's teacher and counselor education programs and Bronx school districts:

- The New York City Writing Project supports workshops for teachers of writing as well as research at all educational levels.
- The Center for School/College Collaboratives receives external funding for projects that focus on increasing educational success for Bronx students and their families and preparing the students to enter and complete higher education. The Center works with the entire school community - administrators, teachers, students, and parents

- and collaborates with the Bronx Regional Offices of the New York City Department of Education.

- The Bronx Institute, funded with private and government grants, is helping more than 12,000 Bronx schoolchildren become academically successful.

Lehman also participates with the New York City Department of Education in developing small high schools in the Bronx. The schools - housed within larger, traditional high schools - are formed around the themes of the visual arts, teaching and the professions, music, health sciences, nursing, musical theatre, community research and learning, and international studies.

In addition, in Fall 2003, the High School of American Studies at Lehman College opened on the Lehman campus. One of New York City's new specialized high schools and the only one to focus on American history, the school represents a collaboration among Lehman College, the New York City Department of Education, and the Gilder-Lehrman Foundation. It has been listed for several years by U.S. News and World Report as one of the nation's top 100 public high schools, most recently (2012-13) as #6 in New York City and #44 in the nation.

Dr. Ricardo R. Fernández succeeded Dr. Leonard Lief, the founding president of Lehman College, on September 1, 1990. Throughout his tenure as president, Dr. Fernández affirmed both the College's strong commitments to access to higher education for the economically disadvantaged and educational excellence.

On August 15, 2016, Dr. José Luis Cruz began his tenure as the third president of Lehman College. When Dr. Cruz was appointed executive vice chancellor and university provost for CUNY on May 1, 2019, Chancellor Félix V. Matos Rodríguez appointed Dr. Daniel Lemons, who has served as a faculty member and administrator with CUNY for more 30 years, as interim president on July 1, 2019. Dr. Lemons was appointed interim executive vice chancellor and university provost for CUNY in July 2021, when CUNY appointed Dr. Fernando Delgado as the fourth president of Lehman College, effective July 1, 2021.

Dr. Delgado came to Lehman with more than 20 years of public college administrative experience in the Midwest and Arizona, including five years as executive vice chancellor for academic affairs at the University of Minnesota, Duluth, which serves approximately 10,000 students through its four academic colleges. Prior to that he served as vice chancellor for academic affairs and provost at the University of Wisconsin-River Falls. He has also held roles as an academic dean at Minnesota State University, Mankato and Hamline University in St. Paul. His academic career began at Arizona

State University, where he also began his work as a university administrator.

The son of immigrants—his father is from Mexico and his mother from Spain—Dr. Delgado, like more than 60 percent of Lehman's students, was also a first-generation college student. He holds a bachelor's degree in political science from San José University and a master's degree and Ph.D. in communication studies from the University of Iowa.

<https://lehman.edu/president/presidents-biography/>

Mission, Vision, and Values Statements

Mission Statement

Lehman College serves the Bronx and surrounding region as an intellectual, economic, and cultural center. Lehman College provides undergraduate and graduate studies in the liberal arts and sciences and professional education within a dynamic research environment, while embracing diversity and actively engaging students in their academic, personal, and professional development.

Vision Statement

Lehman College has entered a new era in its history as an institution of higher education. Already known for its outstanding faculty, dedicated staff, superb library, art gallery, theaters, speech and hearing clinic, and athletic facilities, the College is now building a new state-of-the-art, environmentally "green" science facility that will invigorate faculty and student research as well as prepare Lehman students for science-based careers.

Supported by the University's expanding technological resources, the College will promote creative teaching strategies, greater access to courses through online learning, off-campus access to library resources and enhanced student services. The new Multimedia Center will stimulate technological innovation in all areas of communications and the arts for both the College and the region.

Lehman has always been a commuter campus that prides itself on its diversity and commitment to multicultural understanding. Now, the College looks forward to providing a residential experience to attract a wider range of students and lead to the development of new learning communities to enhance student success.

Lehman College will prepare students to live and work in the global community through new interdisciplinary programs, such as environmental studies and international business, along with study abroad and experiential learning opportunities. The College's geographic information systems and numerous partnerships with schools, hospitals, social service and governmental agencies, small businesses, major corporations, and cultural and scientific institutions will

contribute to the economic development of the region. Service learning and internship opportunities will be further developed to foster the engaged citizenship and commitment to public service embodied in its namesake, Herbert H. Lehman.

Recognized for small classes, close interaction between students and faculty, a successful Teacher Academy and Honors College, and a caring and supportive environment, Lehman College will celebrate its fiftieth anniversary in 2018 as the college of choice in the region, committed to preparing students for graduate studies, professional careers, and lifelong learning.

Values Statement

Lehman College is committed to providing the highest quality education in a caring and supportive environment where respect, integrity, inquiry, creativity, and diversity contribute to individual achievement and the transformation of lives and communities.

The City University of New York

TODAY'S City University of New York dates back to the 1847 founding of the Free Academy by Townsend Harris, an early champion of public education and a pioneering diplomat who was the United States' first ambassador to Japan. With an inaugural class of 143 academically qualified young men, the Academy set upon a mission to, in Harris' words, "let the children of the rich and the poor take their seats together and know of no distinction save that of industry, good conduct, and intellect." The Academy quickly grew in reputation and enrollment and, as a new century approached, plans were approved for an expansive neo-Gothic campus uptown for what became known as the College of the City of New York. Twenty years after the first young men entered the Academy, a separate school for the education of teachers, the Female Normal and High School, later renamed Hunter College in honor of its founder Thomas Hunter, offered the same higher education opportunities to women.

Fueled by an immigration boom in the early 20th century, City College and Hunter expanded to include evening session branches in Brooklyn and Queens. In 1926, the state Legislature established a Board of Higher Education to oversee the growing municipal college system and expand public access in the city's outer boroughs. Over the next decade, Brooklyn College and Queens College were founded, and Hunter established a Bronx campus, which decades later would become Lehman College.

Despite the city's limited resources, demand for public higher education continued to grow during the Great Depression era. The colleges created night divisions that charged affordable tuition while offering students the opportunity to work toward their degrees or raise their grades to the levels required to

enter the colleges' free baccalaureate programs. In the ensuing post-World War II years, another dramatic enrollment boom led to the creation of several community colleges, including one on Staten Island. In 1961, the state Legislature formally established The City University of New York, uniting what by then had become seven municipal colleges into a formally integrated system, and authorizing the new University to offer doctoral programs. Demand increased further during the 1960s, leading to a six-year period when tuition was briefly eliminated and senior college admission was given to any city resident with a high school diploma or equivalency degree. Today, the senior colleges have selective admission requirements. Community colleges continue to serve as portals to opportunity for applicants with a high school or GED diploma.

Since 2000, billions of dollars have been reinvested to rebuild, enhance and expand the University's 24 campuses. The CUNY Graduate School of Journalism, CUNY School of Public Health, the Macaulay Honors College and the innovative Guttman Community College are among the colleges and graduate schools recently established. This greatly expanded University, serving record enrollments, offers tuition-free education to nearly six in 10 full-time undergraduates thanks to federal, state and CUNY financial aid. In contrast to the crushing debt other students typically carry at many public and private institutions, 85 percent of CUNY's full-time students are student loan debt free.

The University's 21st century mission remains true to its founding principles of academic excellence, scholarship and opportunity for all. CUNY boasts 12 Nobel laureates and the tradition of high academic achievement continues as CUNY students prestigious Rhodes, Fulbright, National Science Foundation, Truman and Goldwater scholarships. With a flourishing reputation among students and educators alike, CUNY is defining value by providing the opportunity of a lifetime: a high-quality, competitive and remarkably affordable college education. It's an education that delivers in the marketplace, producing job-ready graduates with respected academic credentials. It's a 21st-century education, taught by top scholars on upgraded campuses, that is transforming the student experience, bringing jobs to New York and stimulating economic development.

That's why more high-achieving students, and more students of all backgrounds and abilities, are choosing to study in vibrant New York City, at the City University of New York.

College Governance

The Lehman College system of campus governance consists of the College Senate. The Lehman College Senate is a unicameral body of 102 members, representing the faculty, students, and administration of the College, and is presided

over by the College president. Subject to the authority of the Bylaws of the Board of Trustees of the City University of New York, the College Senate is responsible for the formulation of academic policy and for legislative and advisory functions related to the programs, standards, and goals of the College.

College Accreditation and Affiliations

Lehman College is accredited by the Commission on Higher Education of the Middle States Association of Colleges and Schools. Degree programs are registered by the New York State Education Department. Some degree programs are also accredited by professional associations.

The baccalaureate degree program in Nursing is accredited by the Commission on Collegiate Nursing Education (<http://www.ccnaccreditation.org>). The social work program is accredited by the Council on Social Work Education. The College also offers nutrition programs approved by the American Dietetic Association. Lehman's B.S. degrees in chemistry are certified by the American Chemical Society. The graduate program in speech-language pathology is accredited by the American Speech-Language-Hearing Association. All educator preparation programs offered by the College's School of Education are accredited by the Council for the Accreditation of Educator Preparation (CAEP). In addition, the School of Education's counselor education program in school counseling offered by the Department of Counseling, Leadership, Literacy, and Special Education is nationally accredited by the Council for Accreditation of Counseling and Related Educational Programs (CACREP).

Lehman's B.S. and M.S. programs in accounting provide the educational preparation required for licensure as a Certified Public Accountant in New York State. The College offers State-approved teacher education programs that can lead to New York State provisional or permanent certification. Graduates of the undergraduate nursing program are eligible to take the Registered Nurse licensure examination.

Lehman College has chapters of Phi Beta Kappa, Sigma Xi, and Golden Key National Honor Society. Individual disciplines have their own honor societies with national affiliations. The College is a member of the National Collegiate Athletic Association and the Eastern Collegiate Athletic Conference.

Degree Programs

Undergraduate Curriculum

Lehman College offers undergraduates a wide choice of major programs in both the liberal arts and sciences and in the professions. The College offers the degrees of Bachelor of Arts (B.A.), Bachelor of Science (B.S.), Bachelor of Fine Arts

(B.F.A.), Bachelor of Business Administration (B.B.A.), and Bachelor of Arts-Master of Arts (B.A.-M.A.). Majors are either departmental or interdepartmental.

Graduate Curriculum

The College offers a choice of more than forty master's degree programs in arts and sciences, health fields, and teacher education. Advanced certificates are offered in some areas. The degrees offered are the Master of Arts (M.A.), Master of Science (M.S.), Master of Science in Education (M.S. Ed.), Master of Arts in Teaching (M.A.T.), Master of Fine Arts (M.F.A.) in Art, and Master of Social Work (M.S.W.). In addition, more than seventy-five Lehman College faculty members participate in City University doctoral programs.

Schedule of Courses

Academic Year

During the regular academic year, which runs from late August through the end of May, Lehman offers a full range of undergraduate and graduate courses on a day, evening, weekend, hybrid, and online schedule.

Winter and Summer Sessions

Lehman offers winter and summer sessions, in January, June, and July. Undergraduate and graduate summer programs accept matriculants as well as visiting and non-degree students, in day, evening, and online classes. Many students utilize these sessions to accelerate their time to degree completion.

Academic Organization

The College's academic departments and programs are divided into five schools:

School of Arts and Humanities

Departments

Africana Studies

Art

English

History

Journalism, and Media Studies

Languages and Literatures

Latin American and Latino Studies

Music, Multimedia, Theatre, and Dance

Philosophy

Interdisciplinary Programs

Classical Civilization and Classical Tradition (Minor)

Comparative Literature (BA and Minor)

Disability Studies (Minor)

Humanities (Minor)

Irish Studies (Minor)

Linguistics (BA and Minor)

Middle Eastern Studies (Minor)

Program for Professional Communications (Minor)

Urban Studies (Minor)

Women's Studies (Minor)

Institutes

Institute for Irish-American Studies

The Jaime Lucero Mexican Studies Institute

Collaboratives

High School of American Studies at Lehman College

School of Continuing and Professional Studies

At 2 locations: On campus and at CUNY on the Concourse

Center

Small Business Development Center

Programs

Continuing Education - Certificates and Licenses

Workforce Education - Credit and non-credit training

CUNY 2X/Tech Talent Pipeline

Adult Degree Programs:

- Bachelor's Degrees
- Master of Arts in Liberal Studies

School of Education

Departments

Counseling, Leadership, Literacy, and Special Education

Early Childhood and Childhood Education

Middle and High School Education

Institutes

The Bronx Institute

Institute for Literacy Studies

Collaboratives

Center for School/College Collaboratives

School of Health Sciences, Human Services, and Nursing

Departments

Health Sciences

Nursing

Social Work

Speech-Language-Hearing Sciences

Institutes

CUNY Institute for Health Equity

School of Natural and Social Sciences

Departments

Anthropology

Biological Sciences

Chemistry

Computer Science

Earth, Environmental, and Geospatial Sciences

Economics and Business

Mathematics

Physics and Astronomy

Political Science

Psychology

Sociology

Centers

Center for Theoretical and Computational Sciences

Center for Human Rights and Peace Studies

Research Institutes and Community Resources

Bronx Data Center

The Bronx Data Center collects and analyzes demographic material related to the Bronx and adjacent areas, in order to provide service to the Lehman community, as well as to cultural, social service, civic, media, and other organizations. The Center focuses on data for very small geographic units (down to the city block), as well as the Bronx as a whole. Historical data going back several decades complement the latest census information. The Center specializes in the graphic presentation of data through computer-generated maps. See:

www.lehman.edu/deannss/bronxdatactr/discover/bxtext.htm

The Bronx Institute

The mission of the Bronx Institute at Lehman College is to foster faculty research relevant to the improvement of education and the quality of life in the Bronx; and to provide a forum to discuss, analyze, and identify potential solutions to contemporary educational, social, political, cultural, and economic challenges facing the Bronx community, in particular, and other urban areas at large. As a community resource, the Bronx Institute is committed to act in cooperation with other academic institutions, community groups, and organizations to develop joint projects, especially those that enrich the educational needs of all Bronx students. The vision of the Institute is to foster and promote equity and excellence in the education and learning of Bronx students in grades K-16 by involving administrators, teachers, parents, and the students themselves in high-quality programs that support and enhance the educational opportunities of the students.

The Center for School/College Collaboratives

The Center for School/College Collaboratives designs and implements programs, in partnership with Bronx schools, to enrich student learning and ensure student readiness and motivation to graduate high school and enter college. Programs offered by the Center primarily emphasize student outcomes and achievement. These programs encompass: student and teacher enrichment in mathematics, science, and technology; recruitment of middle and high school students for careers in teaching; intensive work with at-risk students to prepare them for educational transitions from middle to high school and from high school to college; pre-service teacher preparation for bilingual students and paraprofessionals; in-service professional development in technology and interdisciplinary teaching; and close working relationships with over twenty Bronx schools.

Programs focus on working intensively with students and teachers from particular schools and on building pipelines for students since these efforts have been shown to have greater potential for success than programs that draw students from a wide range of schools.

The Center subscribes to several Principles of Collaboration: all partners are equal; planning and implementation involve school administrators/teachers/staff/students/parents; broadening student/teacher contact in informal, hands-on, project-based settings; activating parent and family involvement; focusing on integration of student learning experiences; developing a plan of action; establishing linkages among projects; and encouraging high school students to qualify for, and take, college credit courses while still in high school.

The Center also houses Lehman's well-regarded, CUNY-sponsored College Now Program. The goal of the program is to insure that all students meet and exceed the performance standards required for high school graduation and that all those who wish to pursue postsecondary study are prepared to do so. Lehman has had a version of College Now or Bridge to College since 1985, when qualified students involved in the College's various funded programs were invited to enroll in college-credit courses. The College Now eleventh- and twelfth-grade program offers a variety of college-credit courses depending on student interest and ability. These include courses in psychology, studio art and art history, calculus and pre-calculus, education, biology, English, history, computer science, economics, geology, philosophy, speech, and sociology.

Funding for Center programs has been provided by the New York City Department of Education, U.S. Department of Education, National Aeronautics and Space Agency, New York State Education Department, the City University of New York, Fund for Improvement of Post-Secondary Education, Aaron Diamond Foundation, and others.

Center for Human Rights and Peace Studies

The Center for Human Rights and Peace Studies advances social justice and human dignity in an interdisciplinary fashion through active involvement of faculty, students, and community in research and teaching. The Center builds on the College's unique history: the drafting of the Universal Declaration of Human Rights began at Lehman College when the United Nations met at the College. Lehman College students, often immigrants and the first in their families to access higher education, engender a broad understanding of human rights. The Center unites student and faculty engagement on local and global rights issues in New York and the greater world community. Currently the Center offers a minor in Human Rights and Peace Studies.

Center for Theoretical and Computational Sciences

Director: Daniel Kabat (Gillet Hall, Room 131A)

The Center for Theoretical and Computational Sciences is an interdisciplinary research center drawing on faculty engaged in theoretical and/or computational research in the departments of Math and Computer Science, Chemistry, and Physics and Astronomy. It serves to facilitate faculty research, foster interdisciplinary collaboration, and provide opportunities for undergraduate and graduate students to engage in faculty/student collaborative research. A major part of the Center's mission is to provide outreach, mentoring and training to scientists at the early stages of their scientific careers.

CUNY Institute for Health Equity

The CUNY Institute for Health Equity provides a home for interdisciplinary population-based research and training across CUNY campuses, and with community organizations in The Bronx, Manhattan and Brooklyn. Faculty affiliates from other campuses, and student interns, are actively engaged in applied research and programs to address the social determinants of health, and health equity in under-served communities of color. Collaboration with CUNY public health programs and school, and external organizations support the goal of achieving health equity and social justice within neighborhoods where CUNY campuses are located.

The Institute for Literacy Studies

The Institute for Literacy Studies, founded in 1984, is a research unit of The City University of New York. The Institute's mission - reforming and improving urban education - has deep significance in its home borough of the Bronx as well as throughout New York City and the nation. The Institute defines urban education in its broadest, most inclusive meaning to comprise the complex web of systems, settings, and relationships that foster learning. It works to advance research, articulate theory, and implement effective practice in literacy and mathematics education through initiatives in a variety of educational settings K-16, including schools, community-based organizations, adult literacy programs, and CUNY campuses. Through its Adult Learning Center, the Institute offers basic education, English language instruction, and preparation for the high-school equivalency exam and college transition to members of the community who are not enrolled in school or college. See www.lehman.edu/literacy-studies.

The Institute for Irish American Studies

The CUNY Institute for Irish American Studies was established by the CUNY Board of Trustees to focus on the

Irish-American Diaspora and its impact on American culture and society. The Institute, first and foremost, serves as a clearinghouse for research opportunities in Irish-American studies for students, staff, and faculty on all of the campuses of the City University of New York. Current projects being undertaken by the Institute include Publishing in Irish America 1820-1922, Great Irish Famine Curricula In-Service Training, Documenting Return Emigration, Curriculum Design: Teaching the Irish Language in America, the "New Irish" and Film, Mapping Irish America, and the Irish in the Americas.

In line with the current research projects of the Institute, an extensive program of public lectures and events is sponsored each semester. The Institute invites researchers and leaders in the community to present at its Wednesday evening lecture series. The Institute also sponsors day-long symposia on specific topics, Irish language conversation circles, and celebrations of the arts. The Institute additionally makes a number of distance education courses arising from its research areas available to students at CUNY campuses and throughout the country. These courses make use of online software as well as tours and lectures in the U.S. and abroad.

The Jaime Lucero Mexican Studies Institute at CUNY

The Jaime Lucero Mexican Studies Institute at CUNY is comprised of all the faculty, students, staff, and affiliated community-based organizations working on research, advocacy, and services related to Mexico and Mexicans in the United States. Among the goals of The Jaime Lucero Mexican Studies Institute at CUNY are promoting the creation of courses, majors, minors, and programs of study in campuses across the CUNY system; promoting enrollment, retention, and graduation of Mexican and Mexican-American students in CUNY; sponsoring an annual academic conference as well as film series, lectures, workshops on Mexican topics; serving as liaison, resource, and epicenter for the coming together of Community-Based Organizations (CBOs) for the promotion of cultural, educational, and social programming for the larger Mexican community and all of New York City; supporting undergraduate and graduate students through internships, research assistantships, and other service-learning opportunities with cultural, diplomatic, social, and economic institutions working with the Mexican population in New York City. For further information visit <http://www.lehman.edu/mexican-studies>

Admissions

General Information

Lehman College accepts both entering freshmen and transfer students. The admission categories fall into two classifications: degree students (matriculants) and non-degree students (non-matriculants). A matriculant is a student who is admitted to a program leading to a degree. Undergraduate matriculants at Lehman, either full-time or part-time, may attend classes during any hours in which the College is in session. A non-degree student may enroll in credit-bearing courses on a space-available basis, but is not officially registered in a degree program and is not a candidate for a degree. Credits earned by such students may later be transferred to a degree program. Freshmen and transfer students who were educated outside the United States must file their applications through the University Application Processing Center (UAPC) year-round. Lehman College does not process late applications with foreign credentials.

Applicants who wish to receive admission information should consult the following offices:

Lehman College
Undergraduate Office of Admissions
 Shuster Hall, Room 161
 Phone: 1-877-LEHMAN-1

CUNY Welcome Center
 217 East 42nd Street
 between 2nd & 3rd Avenues
 New York, NY 10017

New York State Resident Tuition Rate

For the most up-to-date residency guidelines, please review the Tuition and Fee Manual on the CUNY website:

<http://www2.cuny.edu/about/administration/offices/legal-affairs/university-tuition-fee-manual/iv-residency/>

Residency forms and a list of the documents that may be used to prove residency can be obtained in the Office of Admissions, Shuster Hall, Room 161.

Admission to Undergraduate Degree Programs

Freshmen

Freshmen admission decisions are based on a student's high school GPA, academic subject averages and total academic units.

The SEEK Program

SEEK (Search for Education, Elevation, and Knowledge) is a New York State sponsored higher education opportunity program of CUNY. The program's special admission standards provide access to Lehman College and other City University senior colleges to talented and motivated high school graduates who do not meet traditional admission requirements. Students must also meet specific low-income requirements.

SEEK students receive specialized support services to enrich their academic career and personal development. Services include intensive instructional support, including tutoring, computer-assisted-instruction, study skills training, and small-group course reviews (supplemental instruction); academic counseling support; and a small amount of supplemental financial aid for college-related expenses, including college fees, books, and supplies. The amount of SEEK financial aid is based on individual need and fiscal availability. SEEK students are eligible for up to ten semesters of TAP assistance, if needed.

Admitted SEEK freshmen are required to participate in a four-to-six-week enrichment pre-freshman summer program at the College before they enroll for their first semester of study. Once enrolled, they are required to maintain full-time matriculated day status, sustain a satisfactory academic standing, and participate in all recommended program support activities. SEEK students are eligible for up to ten semesters of S.E.E.K. sponsorship while working toward their bachelor's degree.

Freshman applicants who wish to be admitted under the Lehman College SEEK Program should file a CUNY Freshman Application and complete section four, entitled "SEEK/CD Opportunity Programs." Freshman applicants should have no prior college experience. Freshman admission to SEEK occurs mostly in the fall semester. Transfer student applicants - those students who have attended another college,

university, or post-secondary institution - may be eligible for admission as SEEK students if they have previously participated in SEEK/CD, EOP, or HEOP at CUNY, SUNY or New York state private institutions respectively. Transfer applicants should contact the SEEK Program.

Inquiries about the SEEK Program at Lehman College may be made to the SEEK Program Office at 718-960-7979 or seek@lehman.cuny.edu. More information about the program is available on the Lehman College website: www.lehman.edu.

Testing Requirements

Freshman applicants must take the CUNY Assessment Tests for admissions purposes. As of Fall 2001, entering students are required to pass all three CUNY Assessment Tests (reading, writing, Math1 and Math2) before enrolling at Lehman and other senior colleges of the City University of New York. Students who are eligible for the SEEK program may be admitted to a baccalaureate program without first demonstrating basic skills proficiency; however, these students must demonstrate the requisite level of proficiency in reading, writing, and mathematics within two years of initial enrollment. The two-year time limit is interpreted as consisting of the required pre-freshman immersion program, four regular semesters, two winter immersion programs, and the summer immersion program at the end of each academic year.

Transfer Students

Transfer student applicants - those students who have attended another college, university, or postsecondary institution - are admitted through the University Application Processing Center (UAPC). Transfer students can access the online application at www.cuny.edu. Transfer applications must be accompanied by a \$70.00 application fee.

Transfer applicants must submit their high school transcripts and all official college and other postsecondary educational transcripts. Students who fail to provide all transcripts are subject to penalty.

All transfer students are subject to City University of New York testing requirements. For details, see the Office of Testing and Scholarships at www.lehman.edu.

The minimum requirements for transfer students are as follows:

- Students transferring fewer than 12 college credits must satisfy Lehman's freshman admission criteria.
- Applicants transferring from 12 up to 24 college credits must satisfy either the freshman admission criteria or present a 2.75 cumulative Grade Point Average.
- Students with 24 or more credits must have a cumulative Grade Point Average of 2.3 or better.

- Students with a CUNY/SUNY A.A. or A.S. degree must have a 2.0 cumulative Grade Point Average or better.
- Students with an A.A.S. degree or a degree from outside CUNY/SUNY must have a cumulative Grade Point Average of 2.3 or better.

These admission criteria are subject to change. Inquiries and appeals may be directed to undergraduate.admissions@lehman.cuny.edu or speak with a live agent on the admissions website.

Testing Requirements for Incoming Freshmen, Transfer Students, and Information Regarding CUNY Assessment Tests Exemptions

For testing requirements for Incoming Freshmen, Transfer Students, and Information Regarding CUNY Assessment Tests Exemptions, please visit the Testing website:

<http://www.lehman.cuny.edu/academic-testing/index.php>

Community College Graduates

To earn the bachelor's degree at Lehman, Associate Degree graduates from any accredited college need to complete the courses required for the major, two upper-division General Education Integration (College Option) courses, two writing-intensive course, and elective courses as needed to meet the minimum 120-credit requirement. These students will generally need only 60 credits to complete the Lehman bachelor's degree.

Students transferring fewer liberal arts and science credits to Lehman from their Associate Degree programs may need more than 60 Lehman credits to complete requirements for a bachelor's degree. Students transferring without a degree from CUNY Associate Degree programs will receive General Education credit for courses taken which meet Pathways requirements. All transfer students must meet New York State education regulations which mandate a minimum of 90 liberal arts and sciences credits for the B.A., 60 credits for the B.S., and 30 for the B.F.A. and B.B.A.

Community College Graduates Writing Requirement Prior to Spring 2020

Second Degree Students Transferring to Lehman

Students who previously have earned a bachelor's degree or higher from an accredited program verified by CUNY are deemed skills proficient. Only students who document the degree at the time of application for admission to the College they currently attend are entitled to this exemption.

Prohibition on Submission of Fraudulent Admission Documents

The submission of documents in support of applications for admission, such as transcripts, diplomas, test scores, references, or the applications themselves, that are forged, fraudulent, altered from the original, obtained under false pretenses, or otherwise deceptive is prohibited and is punishable by a five-year ban on applying for admission or five-year suspension from CUNY. A second violation is punishable by a lifetime ban on applying for admission or expulsion from CUNY.

Admission of Students Who May Pose a Risk to the College

The College reserves the right to deny admission to any student if in its judgment, the presence of that student on campus poses an undue risk to the safety or security of the College or the college community. That judgment will be based on an individualized determination taking into account any information the College has about a student's criminal record and the particular circumstances of the college, including the presence of a child care center, a public school or public school students on the campus. In addition, the College may consider factors such as the amount of time since the crime was committed; the amount of jail time served by the student; the number of years the student was on probation or parole; whether the student has satisfied probation or parole requirements at the time of the student's application; whether the student has completed drug, alcohol, sex offender or other treatment; and what work or educational experience the student has had after the conviction. Finally, if the student is known to have been assisted by a CUNY-sponsored or other re-entry program or initiative, the college will consult with a counselor or representative from said program.

Special Admission Categories

Applicants for the Bachelor of Arts (B.A.) in Social Work

All students who wish to become candidates for the B.A. degree in social work shall have completed 48 credits, including SWK 237 (Introduction to Social Work) and SOC 166 (Fundamentals of Sociology), achieved a minimum cumulative index of 2.7, and submitted an application to the Social Work Program.

Persons interested in the Social Work Program should request a program brochure and application from the Office of the Director (Carman Hall, Room B-18, 718-960-8418).

Applicants for The Bachelor of Science (B.S.) in Nursing

Prenursing

All students who wish to become candidates for the B.S. in nursing degree are required to take a prenursing sequence of courses in which they must achieve a minimum of a 2.75 index in the required science courses, attain basic skills levels set by the Department of Nursing, be in good academic standing in the College, and meet any other criteria established by the Department of Nursing. Students are admitted at the start of their junior year to the B.S. in Nursing Program on a space-available basis. All candidates for the Program in Nursing should request, prior to admission to the College, copies of the Departmental curriculum and the brochure, "Nursing at Lehman," available in the Department of Nursing (T-3 Building, Room 209, 718-960-8374).

Freshmen

Freshman applicants to Prenursing are admitted through the University Application Processing Center (UAPC) by the usual City University admission procedure. UAPC determines eligibility by the uniform admission standards applied to all Lehman freshman applicants.

Registered Nurses

City University A.A.S. nursing graduates are allocated by the University Application Processing Center (UAPC) to Lehman College on the basis of space availability, Grade Point Average, and success on the National Council Licensing Examination (NCLEX). Other transfer students must satisfy these same eligibility requirements. Applicants who attended a hospital school of nursing and have earned no previous college credits should file the transfer application through UAPC. Those who have earned previous college credits, in addition to having attended a hospital school of nursing, should also file a transfer application through UAPC. To earn credit for courses taken at a hospital school of nursing, students must (1) present a license to practice as a registered nurse and (2) earn credits from Excelsior College (formerly Regents College) by examination in specific nursing courses.

Readmission to Lehman College

Effective Fall 2019: After more than two consecutive semester of absence, students who want to be readmitted to the college must file a readmit application with the Office of Admissions (Shuster Hall, Room 161). Students who do not have financial obligations to the college and have a 2.0 GPA or greater may file an application. The completed application and a \$20.00 non-refundable fee is required; official transcripts of any coursework completed during the absence must also be submitted with the application in order to be

evaluated for readmission and transfer of credits. Students who have attended any institution since last attending Lehman must meet the general admission transfer GPA requirement.

Students who stop-out for one or two semesters maintain their active status at the college. During this period students should remain in contact with their academic departments. Active status does not guarantee access to all campus facilities and services.

Students who do not meet the academic eligibility requirements must file an appeal for readmission with the Office of Academic Standards and Evaluation (Shuster Hall, Room 116). All students must settle their financial obligations to the college prior to applying for readmission.

Non-Degree Students

The admission requirements for non-degree students are the same as the admission requirements for matriculants. (See "Admission Requirements for Freshmen (p. 12)" and "Admission Requirements for Transfer Students (p. 13).") Non-degree students (non-matriculants) must apply directly to the Lehman College Admissions Office. The deadline for all non-degree admissions is the last day of registration.

Visiting Students

CUNY students who are pursuing a degree at another CUNY college who wish to take courses at Lehman on a non-degree basis must request a CUNY e-permit online at www.cuny.edu from their home college in order to attend Lehman. Tuition for courses taken at Lehman is paid at the student's home college. The student will not be required to submit any fees to Lehman College.

Non-CUNY students who are attending a non-CUNY college must submit an unofficial copy of their college transcript or a letter from their primary college to the Lehman Admissions Office that verifies their current enrollment and good academic standing. Visiting students must file an application for Visiting College Students and pay a \$65 application processing fee. Returning visiting students will pay a \$10 readmission fee.

Permission to register as a visiting student is valid for only one semester at a time. Students who wish to renew their status as visiting students must submit new documentation from their primary colleges for each succeeding semester.

International Student Admissions

International students who are neither U.S. citizens nor permanent residents must file the appropriate freshman or transfer student application and meet the corresponding admission requirements. (See "Admission Requirements for Freshmen (p. 12)" and "Admission Requirements for Transfer

Students (p. 13)" in this Bulletin.) In addition, those students who were educated in a language other than English are required to submit a minimum TOEFL score of 500 on the paper exam.

Once the student has been admitted to Lehman by the University Admissions Processing Center (UAPC), he or she will be asked to submit financial and other documents that will satisfy the requirements for the I-20 form. Once the I-20 form is sent, the student must present the form to the American embassy or consulate in his or her home country in order to obtain an F-1 visa.

All applicants, including those who are U.S. citizens and permanent residents, may be classified as international students for admissions-processing purposes if their education has taken place outside the United States. These applicants must submit their applications and transcripts through UAPC; they may not apply directly through the College during Direct Admissions periods. All non-English transcripts must be accompanied by an official translation into English as defined by City University guidelines.

Veterans

The City University maintains a special outreach program for returning veterans who might not be familiar with the opportunities for college study open to them.

Veterans desiring to avail themselves of the benefits provided under Public Law 89-358 may register at Lehman as matriculants, paying tuition and fees. If they matriculate, the College may allow them up to eight credits for United States Armed Forces Institute courses in which they have passed final examinations.

Matriculated veterans of the U.S. armed forces who (a) have paid tuition and fees, (b) are upper-division students (an upper-division student is one who has received passing grades in courses representing 61 or more credits), and (c) have satisfactorily completed a minimum of 30 credits at Lehman will be awarded credit, but must file an application in order to receive it.

The Veterans Counseling Service (Shuster Hall, Room 238) advises veterans on the benefits for which they are eligible. The application form for benefits to be paid by the Veterans Administration may be obtained in the Office of Veterans and Military Affairs (Shuster Hall, Room 201 A/B).

Candidates for a Second Undergraduate Degree

Lehman College accepts candidates for a second undergraduate degree when the second degree represents preparation discrete from the first bachelor's degree. Candidates must complete a minimum of 30 credits in residence (see the definition of residence credits under the heading of "Credit Requirements" in this Bulletin). Second-

degree applicants must file the City University Transfer Student Application.

College Now for High School Students

College Now is a collaborative initiative of the City University of New York and the New York City Department of Education. Its primary goals are to improve the academic achievement of high school students and to help New York City public high school students meet or exceed the requirements for high school graduation and the admissions requirements for baccalaureate degree programs at the City University of New York. College Now also seeks to provide underprepared high school students with the enriched instruction and enhanced support services they need to do well in high school and to be prepared for college.

In most cases, a public high school partners with a CUNY college to design a program of academic and preparatory courses and workshops. College Now also offers two summer programs and professional development opportunities for teachers.

High school students can attend a variety of on-campus activities and, depending on their qualifications, choose from the following courses and workshops:

- introductory-level college credit courses; and/or
- non-credit preparatory courses and workshops; and/or
- specially developed high school credit classes.

Each college/high school partnership develops its own course offerings based on the needs of the student population at a particular school and the strengths and resources of the institutions involved. Students who enroll in college credit courses must pass the ELA or Math A/B Regents examinations with grades of 75 or better, or achieve a 480 (or equivalent on the revised test) on the SAT verbal and math sections.

Senior Citizens

New York State residents 60 years and older as of the first day of classes are permitted to enroll as auditors in Lehman College undergraduate courses on a space-available basis, tuition-free; proof of age is required for admission to the program. Individuals enrolling under this program are charged a \$65 fee per semester plus the \$15 Consolidated Fee. Applications can be obtained and filed in Shuster Hall, Room 161. Senior citizens who wish to enroll for credit must pay full tuition and fees.

Immunization Registration Requirement

Students who do not submit proof of measles, mumps, and rubella (MMR) immunization or who fail to return the meningococcal meningitis response form within a statutory grace period shall be prohibited from attending the institution.

For additional information, contact the Health Services Center located in Room 188 of the T-3 Building at 718-960-8900.

Public Health Law 2165 requires that postsecondary students be immunized against measles, mumps, and rubella (MMR).

All registered full-time students and part-time students born on or after January 1, 1957 who are enrolled for at least six, but fewer than twelve semester hours (or equivalent) per semester in an approved degree program or registered certificate program must submit proof of MMR immunization. Students may be exempt from the required MMR immunizations for religious or medical reasons. To qualify for a religious exception, students must submit a signed statement, or in the event the student is a minor (under 18), a signed statement from their parent or guardian, that they hold sincere and genuine religious beliefs that prohibit immunization. To qualify for a medical exception, students must submit a written statement from a licensed physician or nurse practitioner indicating that such immunization may be detrimental to their health.

Public Health Law 2167 requires that postsecondary institutions provide written information about meningococcal meningitis to its students and that students complete, sign, and return a meningococcal meningitis response form. Public Health Law 2167 does *not* require that students be immunized against meningitis.

Public Health Law 2167 requires colleges to distribute written information about meningococcal meningitis disease and vaccination and students to complete, sign, and return to the college, a meningococcal meningitis response form that: (a) confirms that the college has provided the information about meningococcal meningitis; and (b) indicates that either: (1) the student has received immunization against meningococcal meningitis within the ten years preceding the date of the response form; or (2) the student has decided against receiving the vaccination. This law applies to students who are enrolled in at least six semester hours (or the equivalent) per semester. No student may be exempt from receiving information or returning the response form.

Tuition, Fees, and Financial Aid

Financial Aid

Attendance/Academic Requirements for Recipients of Student Financial Aid

Regulations of both New York State (TAP/APTS) and Federal programs of student financial aid require regular class attendance. Funds will not be delivered to students who do not maintain satisfactory attendance records. Financial aid regulations also require that students make satisfactory progress toward a degree. Students should be aware that all financial assistance awards are subject to student compliance with Federal, State, and/or College regulations concerning satisfactory academic progress and standing. Students withdrawing from courses should report to the Financial Aid Office for information on their eligibility for aid. Students on probation who make satisfactory progress will continue to be eligible for financial aid. All Federal undergraduate financial aid is limited to 150 percent of the credits required for the bachelor's degree. Minimum standards in satisfactory progress by students, adopted by the City University, are indicated in the charts in this section of the Bulletin. *For more information, visit www.lehman.edu/financial-aid.*

Financial Aid is available, in various forms, to full- and part-time undergraduate degree students. Information on application procedures and eligibility requirements may be obtained in the Financial Aid Office, located in Room 136 of Shuster Hall. Call 718-960-8545 or e-mail financialaid@lehman.cuny.edu.

The City University of New York Policy on Withholding Student Records

Students who are delinquent and/or in default in any of their financial accounts with the College, the University, or an appropriate State or Federal agency for which the University acts as either a disbursing or certifying agent, and students who have not completed exit interviews as required by the Federal Perkins Loan Program, the Federal Family Education Loan Programs, the William D. Ford Federal Direct Loan Program, and the Nursing Student Loan Program, are not to be permitted to complete registration, or issued a copy of their grades, a transcript of academic record, certificate, or degree, nor are they to receive funds under the Federal campus-based student assistance programs or the Federal Pell Grant Program unless the designated officer, in exceptional hardship cases

and consistent with Federal and State regulations, waives in writing the application of this regulation.

Students who have not met all their financial obligations to the College will not be issued a transcript, certificate, degree, or grade until they have made all outstanding payments. Students will not be allowed to register for a new semester unless they have satisfied all previous financial obligations to the College.

New York State Programs (HESC)

Tuition Assistance Program (TAP)

Applicants must apply annually to the New York State Higher Education Services Corporation (HESC), Albany, NY 12255. The Higher Education Services Corporation determines the applicant's eligibility and mails an award certificate indicating the amount of the grant directly to the applicant.

The Tuition Assistance Program (TAP) is an entitlement program: awards are noncompetitive, and any student who meets the criteria for eligibility will receive funds. The applicant must:

1. be a New York State resident and an eligible U.S. citizen or permanent resident alien;
2. be enrolled full time (12 or more credits/equated credits) and matriculated. Equated credits, applicable to certain courses, are the number of scheduled hours of course meetings in excess of the credits that may be earned in that course;
3. be in good academic standing and meet TAP Progress and Pursuit Requirements
4. officially declare a major once 60 credits have been completed. Students may initiate a request online via iDeclare. Instructions on initiating a request may be found [here](#).
5. Students who are eligible for New York State financial aid (TAP) are required to register for 12 credit-hours of courses per semester that satisfy their degree requirements (General Education, writing-intensive, major, minor, and appropriate electives).

All income data are subject to verification by the New York State Department of Taxation and Finance. Undergraduate students may generally receive TAP awards for eight semesters of study. The amount of the TAP award is based on tuition charges and the student's New York State net taxable family income. To apply for TAP, students should complete a

Free Application for Federal Student Aid (FAFSA) and the CUNY TAP/APTS Supplement Form. Applications are required annually. The Lehman College TAP code is 1412. For more information, visit <https://www.lehman.edu/registrar/tap.php>.

Aid for Part-Time Study (APTS)

APTS is a financial aid program for matriculated part-time undergraduate students. It is not an entitlement program, nor is it part-time TAP. To be eligible for APTS, students must enroll for a minimum of 3 but fewer than 11.5 credits/equated credits per term. To apply for APTS, students should complete a Free Application for Federal Student Aid form (FAFSA) and the CUNY TAP/APTS Supplement Form. Applications are required annually. For more information, visit: <https://www.lehman.edu/registrar/apts.php>.

Course Repeat Rule for New York State Financial Aid

As of May 1987, if a student repeats a course in which a passing grade acceptable to the institution has already been received, the course cannot be included as part of the student's minimum full-time or part-time course load for financial aid purposes. When such courses are included in meeting the minimum requirement, they render the student ineligible for a State award. In the following instances, repeated courses may count toward full-time or part-time study: (1) when a failed course is repeated; (2) when a course may be repeated and credit earned each time.

Area of Concentration (Major)

Undergraduates who have earned at least 60 credits must file an Area of Concentration form (a major) in the Registrar's Office (Shuster Hall, Room 106) in order to receive any New York State awards.

Vietnam Veterans and Persian Gulf Veterans Tuition Award (VVTA and PGVTA)

VVTA and PGVTA are awards for full-time or part-time New York State resident undergraduate or graduate degree students who served in the Vietnam or Persian Gulf wars. Full-time students receive \$1,000 per semester or the amount of tuition, whichever is less. Part-time students receive \$500 per semester or tuition, whichever is less. Total awards received cannot exceed \$5,000. Recipients must also apply for the Tuition Assistance Program and Pell Grant awards. Applications are available in the Financial Aid Office.

Regents Awards for Children of Deceased or Disabled Veterans

A special application must be filed with the New York State Higher Education Services Corporation, Albany, NY 12255.

Documentary evidence to establish eligibility is required with the application. The applicant must be:

1. the child of a veteran who died, or who has a current disability of 50 percent or more, or who had such disability at the time of death resulting from U.S. military service during one of the following periods:
April 16, 1917-November 11, 1918
December 7, 1941-December 31, 1946
June 25, 1950-July 27, 1953
October 1, 1961-March 29, 1973
2. a legal resident of New York State. Legal residence in New York State is also required of the parent at the time of entry into military service, or at death resulting from military service. The amount of the award is \$450 per year, for up to five years.

New York State Aid to Native Americans

Application forms may be obtained from the Native American Education Unit, New York State Education Department, Albany, NY 12230. The applicant must be a member of one of the Native American tribes within New York State and a New York State resident. The award is \$1,100 per year for a maximum of four years of full-time study (or five years, where a fifth year is required for completion of degree requirements). Students must submit semester grades at the end of each semester.

SEEK (Search for Education, Evaluation, and Knowledge)

Application may be made by filing the City University Freshman Application and indicating an interest in being considered for the program in section four of the SEEK/CD Opportunity Programs section. The amount of financial assistance and other support provided to SEEK participants is based on need and fiscal availability. SEEK students must maintain full-time day matriculated status.

The applicant must:

1. be a resident of New York State;
2. be academically eligible (assessed by the University Application Admission Center);
3. be economically eligible (guidelines established by New York State);
4. be an applicant for admission to one of the senior colleges of the City University;
5. File a Free Application for Federal Student Aid (FAFSA) annually.

Vocational Rehabilitation

Handicapped persons may be eligible for benefits under State rehabilitation programs. New York State residents should apply to VESID (Vocational and Educational Services for

Individuals with Disabilities), New York State Education Department, 99 Washington Avenue, Albany, NY 12234, or any of its local offices.

For TAP/APTS Purposes Only

Received FIRST TAP Award 2010-2011 and Later

SEEK *Students are excluded from this chart*

To receive payment number:	You must have completed at least this many credits in the previous payment semester:	You must have accumulated this many credits toward your degree:	You must have a GPA of:
1	0	0	0
2	6	6	1.5
3	6	15	1.8
4	9	27	1.8
5	9	39	2.0
6	12	51	2.0
7	12	66	2.0
8	12	81	2.0
9	12	96	2.0
10	12	111	2.0

Received FIRST TAP Award Before SUMMER 2006

TAP Program Pursuit and Academic Chart

To receive payment number:	You must have completed at least this many credits in the previous payment semester:	You must have accumulated this many credits toward your degree:	You must have a GPA of:
1	0	0	0
2	6	0	0
3	6	6	1.0
4	9	18	1.2
5	9	31	2.0
6	12	45	2.0
7	12	60	2.0
8	12	75	2.0
9	12	90	2.0

10	12	105	2.0
----	----	-----	-----

Received FIRST TAP Award in Summer 2006 or Later

To receive payment number:	You must have completed at least this many credits in the previous payment semester:	You must have accumulated this many credits toward your degree:	You must have a GPA of:
1	0	0	0
2	6	3	1.1
3	6	9	1.2
4	9	21	1.3
5	9	33	2.0
6	12	45	2.0
7	12	60	2.0
8	12	75	2.0
9	12	90	2.0
10	12	105	2.0

Federal Programs

Federal Pell Grant

The Pell Grant Program is an entitlement program for first degree undergraduates: awards are noncompetitive and any student who meets the eligibility criteria will receive funds. Application is made by filing a Free Application For Federal Student Aid (FAFSA) via the Internet at www.fafsa.ed.gov. Lehman College's Federal Title IV code is 007022.

After the FAFSA has been processed, a Student Aid Report (SAR), which produces an Expected Family Contribution (EFC), is electronically submitted to the Financial Aid Office. The amount of the applicant's award is based on the Expected Family Contribution, enrollment status, and the cost of education. Recipients must be enrolled as a first-degree matriculated undergraduate student. Students selected for verification must provide the Financial Aid Office with certain documents to verify the accuracy of the information reported.

Pell Grant awards are paid to eligible students for a maximum of 150 percent of the 128 credits required for the student's first bachelor's degree as long as satisfactory program progress and pursuit is maintained. For more information, visit www.lehman.edu/financial-aid.

Academic Competitive Grant

An eligible student may receive an Academic Competitiveness Grant of up to \$750 for the first academic year of study and up to \$1,300 for the second academic year of study. To be eligible for each academic year, the student must:

1. be a U.S. citizen;
2. be a Federal Pell Grant recipient;
3. be enrolled full-time in a degree program;
4. be enrolled in the first or second year of his/her program of study at a two-year or four-year degree-granting institution (such as CUNY);
5. have completed a rigorous secondary school program of study (after January 1, 2006 if a first-year student, and after January 1, 2005 if a second-year student);
6. if a first-year student, not have been previously enrolled in an undergraduate program; and
7. if a second-year student, have at least a cumulative 3.0 Grade Point Average on a 4.0 scale for the first academic year.

In New York State, a Regents Diploma with Honors or Advance Designation serves as evidence of a rigorous secondary school program. A student may also qualify through completion of a prescribed set of courses taken, or two AdvanceD Placement (AP) courses with a minimum score of three (3) on the AP exams or two International Baccalaureate (IB) courses with a score of four (4) on the I.B. exams.

The prescribed set of courses must include four years of English, three years of Math (including Algebra I and higher-level courses, such as Algebra II, Geometry, or Data Analysis and Statistics), three years of science (including at least two courses from biology, physics, or chemistry), three years of social studies, and one year of a foreign language.

Most potential recipients will be notified by the U.S. Department of Education and will be given a website link that will help them determine whether they have completed a "qualifying rigorous secondary school program." A student's college will then be notified and will verify eligibility. Students who are not notified by the Department of Education and think they may be eligible, should contact the Financial Aid Office to determine eligibility.

National Science and Mathematics Access to Retain Talent (SMART) Grants

The U.S. Department of Education has created a new grant program for third- and fourth-year students who are majoring in math, engineering, or science. An eligible student may receive a national SMART grant of up to \$4,000 for each of

the third and fourth academic years of study. To be eligible for each academic year, a student must:

1. be a U.S. citizen;
2. be a Federal Pell Grant recipient;
3. be enrolled full-time in a degree program;
4. be enrolled in a four-year degree-granting institution;
5. major in physical, life, or computer science, engineering, mathematics, technology, or a critical foreign language (defined as Arabic, Chinese, Japanese, Hebrew and Semetic, and Russian); and
6. have at least a cumulative 3.0 Grade Point Average on a 4.0 scale in the coursework required for the student's major.

Under the SMART Program, CUNY will identify Pell-eligible Federal student aid recipients who are majoring in physical, life, or computer science, engineering, mathematics, technology, or a critical foreign language. A Student's college will be able to provide information on which of its academic programs are designated by the Department of Education as eligible for SMART grants.

For the National SMART program, the amount of the grant, in combination with the Federal Pell Grant, other resources, and estimated financial assistance, may not exceed the student's financial need (cost of attendance, minus EFC, equals financial need). A student may not receive more than one SMART Grant award in each academic year for which the student is eligible.

All annual award amounts for an academic year may be reduced if sufficient funds are not available for all eligible students nationally in an award year.

Federal Supplemental Educational Opportunity Grants (FSEOG)

Grants are available to first-degree undergraduate students with exceptional need, enrolled for courses totaling at least 6 credits/equated credits per term. Application is made by filing the Free Application for Federal Student Aid (FAFSA) or via the Internet at www.fafsa.ed.gov. For more information, visit www.lehman.edu/financial-aid/programs.php#seog.

Federal Direct Student Loan

To be eligible for a Federal Direct Student Loan, a student must be:

1. a U.S. citizen or eligible non-citizen;
2. enrolled or admitted as a matriculated student; and
3. determined to be eligible for the loan after completion of the FAFSA, which results in the calculation of the "Expected Family Contribution."

Students must also be registered for at least 6 credits/equated credits per semester. Freshmen may borrow up to \$2,625 per

academic year; sophomores, up to \$3,500 per academic year; juniors and seniors, up to \$5,500 per academic year. There is a maximum cap of \$23,000 for an undergraduate education. Students may borrow at a relatively low variable interest rate, set each June. Repayment is not expected while he/she remains enrolled continuously at least half-time (6 credits/equated credits), and for six months after he/she ceases to be at least a half-time student.

For information regarding the unsubsidized Federal loan, which requires the borrower to pay interest while in school, consult a counselor in the Financial Aid Office. The FAFSA Student Aid Report must be on file with the Financial Aid Office before a Federal Direct Student Loan can be processed. For more information, visit www.lehman.edu/financial-aid.

Federal Parent Loans for Undergraduate Students (PLUS)

Parents may borrow up to \$4,000 annually for each dependent student at a variable interest rate with a 10 percent cap. Repayment begins 60 days after disbursement of the loan.

Federal Perkins Loan Program

Application is made by filing a Free Application for Federal Student Aid (FAFSA). Loans are available to matriculated students with exceptional need and who register for at least 6 credits/equated credits. Amounts that may be borrowed are \$3,000 for each year of undergraduate study. Students' total undergraduate debt may not exceed \$15,000. Repayment is at 5 percent interest and begins nine months after graduation or leaving school, and it may extend over a period of ten years. There are also certain cancellation provisions. For more information, visit www.lehman.edu/financial-aid/programs.php#perkins.

Federal Work/Study Program

Application is made by filing a FAFSA. The applicant must be matriculated and enrolled in courses totaling at least 6 credits/equated credits per term. Students may work up to 20 hours per week. Jobs are available on and off campus. *NOTE: Students may not earn more than their Federal Work/Study award.* For more information, visit www.lehman.edu/financial-aid/programs.php#work.

U.S. Bureau of Indian Affairs Aid to Native Americans

Application forms may be obtained from: U.S. Department of the Interior; Bureau of Indian Affairs; New York Liaison Office; Federal Building, Room 523; 100 South Clinton Street; Syracuse, NY 13260. To be eligible, the applicant must:

1. be at least one-fourth American Indian, Eskimo, or Aleut;

2. be an enrolled member of a tribe, band, or group recognized by the Bureau of Indian Affairs;
3. be enrolled or accepted for enrollment at Lehman College; and
4. have financial need.

Veterans Administration (VA) Educational Benefits

Application forms are available at all Veterans Administration (VA) offices, active duty stations, and American embassies. Completed forms are submitted to the nearest VA office. In New York City, the VA is located at 252 Seventh Avenue (at 24th Street), New York, NY 10001. Eligibility requirements, entitlements, time limits, and programs of education vary. Veterans with questions may inquire in the Office of Veterans and Military Affairs (Shuster Hall, Room 201 A/B).

Scholarships and Awards

Lehman College supports academic excellence with a growing network of scholarship programs and paid research positions for outstanding students. Inquiries about scholarships are welcomed in the Office of Scholarships, Shuster Hall, Room 205.

New Students

An Academic Achievement Scholarship Program is available for freshmen who are applying to Lehman College. Scholarships from \$1,000 to a maximum of \$4,000 per year are available to new students entering in the Fall semester. All freshmen who are admitted to Lehman are considered for Academic Achievement Awards. No separate application to the Scholarship Program is necessary for freshmen to be considered for the Award.

The selection process is competitive, and awards are made on the basis of an outstanding academic record. Freshman students are evaluated on the strength of their high school record and their score on the SATs.

The award is renewable for up to four years of full-time undergraduate study. With Lehman's full-time annual tuition of \$4,000 a year, this scholarship, in combination with the New York City Merit Scholarship Award, the New York State Tuition Assistance Program (TAP), and the Federal Pell Grant, should provide many students with the opportunity to complete their bachelor's degrees virtually free of charge and permit family education funds to be reserved for graduate and professional studies.

Potential recipients must file a City University Freshman Application and list Lehman as a college choice. The filing deadline for Fall semester consideration is in mid-March.

Only those students who have been admitted to Lehman are considered for these awards.

Enrolled Students

As students progress in their studies at Lehman, they may apply to the following programs based on their academic achievement in college:

Minority Access to Research Careers (MARC): The National Institutes of Health have awarded the College funds to provide a limited number of scholarships for students interested in pursuing the Ph.D. in the general area of biomedical research. This scholarship program is for students in their junior and senior years of study at the College. Students selected for this program work closely with faculty members on designated research projects and receive funds to travel to the national Annual Biomedical Research Conference for Minority Students, where they will present the results of their research projects. The current stipend is \$10,956 per year plus tuition. Interested students should make application for this scholarship program during their sophomore year. Applications are available in the Office of the Dean of Natural and Social Sciences, Shuster Hall, Room 302.

Departmental Awards: offered for excellence in specific academic subjects and varying in amount and criteria for selection.

Tuition and Fees

Tuition and fees are subject to change by action of the Board of Trustees of The City University of New York. Please consult the Bursar's Office, the Director of Admissions, or the Vice President of Student Affairs for a current schedule.

Board of Trustees of the City University of New York Guidelines

All fees and tuition charges listed in this Bulletin and in any registration material issued by the College are subject to change by action of the Trustees of the City University of New York without prior notice.

In the event of any increase in the fees or tuition charges, payments already made to the College will be treated as a partial payment, and notification will be given of the additional amount due and the time and method of payment.

The undergraduate Student Activity Fee or any part thereof is not refundable at any time, except when the student's registration is cancelled because of a withdrawal of a course or courses by the College.

A resident student is a U.S citizen who has had his or her principal place of abode in the State of New York for a period of at least 12 consecutive months immediately preceding the

first day of classes for the semester for which the residency determination is made and who states his or her intention permanently to live and maintain his or her principal place of abode in New York State.

A full-time undergraduate student is one who is enrolled for at least 12 credits or equivalent. (See below, under "Full-Time Status," for important exceptions.) A part-time student is one who is enrolled for fewer than 12 credits or equivalent.

For each student, the tuition and fees due depend on whether he/she will attend full- or part-time, whether or not he/she resides in New York State, and whether he/she is or is not matriculated.

All fees, tuition charges, credits, and course hours listed are subject to correction in the event of error. All fees, calculations, and repeat billings are subject to correction in the event of error. Students will be obligated to pay the correct amount.

The schedule of tuition fees applies to all scheduled semesters, regardless of duration, subject to such special tuition fee rates as may be established by the Board of Trustees of the City University of New York. The same policy applies to summer session, except that there is no maximum tuition. Summer session students must pay for all credits or credit equivalents taken. A child of a member of the permanent staff of the City University of New York, or a child of a deceased or retired member of such staff who had served for more than five years on an annual salary, or a child of an employee of the City of New York or of a City agency who is required to live outside the State of New York in the performance of his or her official duties shall be charged resident rates. The resident rate shall be applicable to a student of another college or university, that grants, in exchange, resident rates to a student of a college within the City University of New York. Evidence of satisfactory educational qualifications must be presented, and the approval of the president of such college within the City University is required.

All recipients of financial aid should be aware that this aid is based on the personal and financial information that the student provides to Lehman College. In the event that a student is determined not to be eligible, in whole or in part, for any expected financial aid for which he or she has applied, he or she will be held fully responsible for payment of any monies that are due the College for registration. If students withdraw, either officially (by filling out a withdrawal form in the Registrar's Office) or unofficially (by no longer attending classes) from any course or courses for which they have registered and a reduction in aid occurs, the student will be held personally responsible for payment of any monies due to the College.

Material Fees

Some courses impose a fee to cover the costs of special materials, film rental charges, lab materials, art materials, transportation, field trip expenses, or other non-instructional costs. Material fees are subject to change and are nonrefundable.

Course Number	Material Fee
ART 103	\$45.00
ART 106	\$45.00
ART 107	\$45.00
ART 201	\$45.00
ART 203	\$45.00
ART 207	\$45.00
ART 208	\$45.00
ART 301	\$45.00
ART 303	\$45.00
ART 307	\$45.00
ART 308	\$45.00
ART 328	\$45.00
ART 710	\$45.00
ART 730	\$45.00
ART 732	\$45.00
ART 734	\$45.00
ART 736	\$45.00
BIO 166	\$35.00
BIO 167	\$35.00
BIO 181	\$35.00
BIO 182	\$35.00
BIO 183	\$35.00
BIO 228	\$35.00
BIO 230	\$35.00
BIO 238	\$35.00
CHE 115	\$40.00
CHE 121	\$40.00
CHE 136	\$40.00
CHE 167	\$40.00
CHE 169	\$40.00
CHE 233	\$40.00
CHE 235	\$40.00

Tuition

Legal Residents of New York State

Matriculated full-time students: \$2,865 per semester, plus \$189.00*

Matriculated part-time students: \$245 per credit, plus \$119.00**

Non-degree students: \$360 per credit, plus \$189.00* (for 12 or more credits) or \$119.00** (for fewer than 12 credits)

** Includes \$74.00 Student Activity Fee, \$15.00 Consolidated Fee, and \$100.00 Technology Fee per semester.*

*** Includes \$54.00 Student Activity Fee, \$15.00 Consolidated Fee, and \$50.00 Technology Fee per semester.*

Out-of-State Residents, Including Foreign Students

Matriculated full-time students: \$510 per credit, plus \$189.00*

Matriculated part-time students: \$510 per credit, plus \$119.00**

Non-degree students: \$760 per credit, plus \$189.00* (for 12 or more credits) or \$119.00** (for fewer than 12 credits).

** Includes \$74.00 Student Activity Fee, \$15.00 Consolidated Fee, and \$100.00 Technology Fee per semester.*

*** Includes \$54.00 Student Activity Fee, \$15.00 Consolidated Fee, and \$50.00 Technology Fee per semester.*

Full-Time Status

- TAP students who register for 12 or more credits or credit equivalents that count toward the degree, including at least 6 credits exclusive of credit equivalent hours, are considered by the College to be full-time (see "Courses with Credit Equivalent Hours (p. 26)" in this section of the Bulletin). This applies to all students except first-time freshmen. New freshmen must be enrolled for at least 3 credits exclusive of credit equivalent hours.
- Full-time status for Pell Grants is defined as 12 credits or Pell credit equivalents (see "Courses with Credit Equivalent Hours" in this section of the Bulletin).
- Students receiving veterans' benefits must have 12 credits to be considered full-time.
- Students registering for student teaching courses are considered by the College to be full-time students irrespective of the actual number of credits they attempt.

All students who attend full-time, as defined above, pay tuition at the full-time rate.

Payment Procedures

Students may pay their tuition and fees with the following options: cash, money order, credit/debit card, bank check, traveler's check, or personal check. Payment can be made in person or by mail. The College will not accept a personal check from any student who has previously tendered a check that was returned by his/her bank.

Pay via mail using a check or money order; make the check or money order payable to **Lehman College** and mail to:

Lehman College
Bursar's Office, SH-031
250 Bedford Park Blvd. West
Bronx, NY 10468

Pay in person by cash, check, and money order at the Bursar's Office.

Pay online through CUNYfirst with an Electronic Funds. Please have all the necessary information ready when making an online payment including your bank account and routing numbers for EFT payments.

Effective March 13, 2016, all Credit and Debit Card transactions will **only** be processed via the University's Payment Plan. The Payment Plan provides students and their families the option of paying their tuition and fees over a period of up to six months. This flexibility enables everyone to reduce the burden of paying all tuition and fees prior to the start of the academic term. This deferred payment plan continues to be an interest free benefit for students and their families. Effective with the Summer 2016 semester, the Enrollment Fee for the Payment Plan will be \$95 per term. For students and their families who opt for direct withdrawals from their bank accounts, a discount will be provided which will lower the Enrollment Fee to \$40 per term. The eCheck payment option through CUNYfirst Self-Service remains an alternative payment option that is cost effective since it does not require an Enrollment Fee.

If a student has an outstanding financial obligation that may be owed to Lehman College or any of its affiliated corporations, Lehman College officers or their designees are authorized to act as the student's agent to endorse and negotiate any checks that he/she may be entitled to receive from any source of financial aid: Federal, State, City, public or private, College or other, to the extent that such authorization shall be used to fulfill this obligation. This authorization is effective as long as there is an outstanding balance owed for any semester.

Students who do not make full payment on their tuition and fees and other College bills, and whose accounts are sent to a collection agency, will be responsible for all collection costs, including agency fees, attorney fees, and court costs, in addition to whatever amounts the student owes the College. In

addition, non-payment or a default judgment against the account may be reported to a credit bureau and reflected in the student's credit report.

Financial aid: Matriculated students who are recipients of financial aid must present proof of their awards at the time of registration. They will be required to pay any difference if the financial aid does not fully cover the amount due. All recipients of financial aid should be aware that if they fall below full-time enrollment because of withdrawal or cancellation of a course or courses, they may no longer be entitled to their financial aid. Students who use TAP, Pell Grant funds, or any other financial aid toward meeting their financial obligation should consult with the Financial Aid Office about any impact on their current semester entitlement and future semester awards. Students who are not eligible for financial aid must pay tuition and fees in full on the day of registration.

Employer Voucher

Students who anticipate using an employer voucher for payment of their registration should verify with the Bursar's Office the acceptability of the voucher prior to registration. Vouchers must provide for immediate payment when billed and cannot be dependent on grades received for the term in question.

Refunds

Refunds of Fees

The Student Activity Fee, Consolidated Fee, and Technology Fee, or any part thereof, is not refundable at any time except when the student's registration is canceled because of withdrawal of a course or courses by the College or the student totally withdraws prior to the start of classes and is granted a 100 percent refund of tuition. No portion of any special fee, parking fee, and any fine or penalty fee is refundable.

Refunds of Tuition

Withdrawal and refund requests should be made in the Office of the Registrar (Shuster Hall, Room 114). *The date on which this form is completed and filed, not the student's LAST day in class, is the official date of withdrawal that serves as the basis for computing a refund.*

Non-attendance in classes does not waive the tuition liability a student incurs at registration. Any student who is unable to file for withdrawal from a course in person may do so by mail. The official date of withdrawal will be the date the letter is postmarked.

The interval between a properly executed application for a refund and receipt of a refund check is usually five weeks.

Students dropping courses will be refunded according to the dates within this schedule. Students may receive a 100% of tuition refund for voluntarily withdrawing from a class up to, and not including, the first day of classes. The first day of classes is not the first day of THE STUDENT'S class but, rather, the College's opening day of classes for the semester or session.

As a result of the Higher Education Reauthorization Act, students who are recipients of Federal financial aid are subject to one of the following Federal Refund Policies (*subject to change*):

Withdrawals and the Return of Federal Financial Aid

Federal student aid is awarded with the expectation that you will attend school for the entire period for which your financial aid was awarded. To establish eligibility for any federal financial aid payments, you must complete the college's registration and bill payment process and begin attending your classes. It is strongly advised that you consult with the Financial Aid Office if you drop or withdraw from a class(es). [Note: if you receive a financial aid payment for a class or classes you have never attended, you must return that payment immediately to the college.]

Once you start attending classes, the federal government requires that you "earn" your financial aid awards in direct proportion to the number of days in the semester that you do attend. If you completely withdraw from school before completing the term, the school must calculate according to a federally approved formula the portion of financial aid you have earned and are therefore entitled to receive up to the time you withdrew.

For additional information please visit the following page:
<http://www.lehman.edu/financial-aid/withdrawals.php>

All other students are subject to the following tuition refund schedule approved by the Board of Trustees:

Withdrawal (Fall/Spring)	Refund	Summer
Before the first day of classes	100%	
Withdrawal to register at another CUNY college	100%	
Through first week of classes	75%	50%
Through second week of classes	50%	25%
Through third week of classes	25%	None
After the end of the third week of classes	None	

Special Provisions for Students in the Military

The following policies apply to students who leave CUNY to fulfill military obligations.

1. Students called up to the reserves or drafted before the end of the semester:
 - a. *Grades.* In order to obtain a grade, a student must attend 13 weeks (five weeks for summer session).
 - b. *Refunds.* A student called up to the reserves or drafted who does not attend for a sufficient time to qualify for a grade is entitled to a 100% refund of tuition and all other fees except application fees.
2. Students who volunteer (enlist) for the military:
 - a. *Grades.* Same provision as for students called up to the reserves. In order to obtain a grade, a student must attend 13 weeks (five weeks for summer session).
 - b. *Refunds.* The amount of the refund depends upon whether the withdrawal is before the 5th week of classes.
 - i. Withdrawal before the beginning of the 5th calendar week (3rd calendar week for summer session): 100% refund of tuition and all other fees except application fees.
 - ii. Withdrawal thereafter: 50% refund.
3. Other provisions for Military Service:
 - a. *Resident Tuition Rates.* These lower rates are applicable to all members of the armed services, their spouses, and their dependent children, on full-time active duty and stationed in the State of New York.
 - b. *Re-enrollment of Veterans.* Veterans who are returning students are given preferred treatment in the following ways:
 - i. Veterans who were former students with unsatisfactory scholastic records, may be readmitted with a probationary program.
 - ii. Veterans, upon their return, may register even after normal registration periods, without late fees.
 - iii. Granting of college credit for military service and armed forces instructional courses.
 - iiii. Veterans returning too late to register may audit classes without charge.
 - c. *Late Admissions.* Veterans with no previous college experience are permitted to file applications up to the date of registration, and are allowed to begin classes pending completion of their application and provision of supporting documents.
 - d. *Readmission Fee.* Upon return from military service, a student will not be charged a Readmission Fee to register at the same college.
 - e. *Veterans Tuition Deferrals.* Veterans are entitled to defer the payment of tuition pending receipt of veterans' benefits.
 - f. *New York National Guard Tuition Waivers.* Active members of the New York National Guard, who are legal residents of New York State and who do not have a

baccalaureate degree, are eligible for a tuition waiver for undergraduate study.

Refund of Tuition and Fees to TAP and other Financial Aid Recipients

Students who withdraw during the refund period and have been awarded a full New York State Tuition Assistance Program (TAP) entitlement may elect to use their entitlement as credit toward their current financial liability and, consequently, will forfeit one semester of TAP eligibility; or they may elect to return their TAP award to the Corporation (advantageous only if a small liability is incurred), retain the semester's TAP eligibility, and reimburse the College for any money due.

- Students who withdraw during the refund period with partial TAP entitlements that are not large enough to cover their tuition liability will be required to pay the difference.
- Students awarded financial aid who change their status from full-time to part-time and vice versa must visit the Financial Aid Office, which will adjust their award.
- Students who withdraw after the refund period may relinquish their TAP entitlement and remaining financial aid award for the withdrawn semester.

Courses with Credit Equivalent Hours

Lehman College courses generally carry a credit value equal to the number of weekly contact hours. In certain courses - generally developmental or compensatory in nature - the number of weekly contact hours may exceed the credit value. These additional contact hours are designated "credit equivalents" or "equated credits." For courses with credit equivalents, tuition is charged on the basis of contact hours and not of credits. Even if a course offers no credit, it is nevertheless billed according to contact hours. The maximum semester rate applies to these courses alone or in combination with credit-bearing courses.

Estimated Other Expenses

Lehman College estimates that apart from tuition, fees, and room and board, students should budget for an additional \$4,328 per year, allocated as follows: books and supplies, \$832; personal and incidental items, \$1,660; transportation, \$816; lunches, \$1,020. International matriculated students who are attending Lehman on a student visa must pay for private medical insurance.

Nursing students registering in clinical courses will have the additional expenses of a uniform, health insurance (unless they are covered by their parents' policies), and malpractice liability insurance. Prior to registration in clinical courses, nursing students also are required to undergo a number of

medical tests at their own expense. (For further information, consult the Department of Nursing.)

Bursar's Receipt

Bursar Validation is required to complete term registration. All students must submit a signed Bill or Payment Form (zero balance included) to the Bursar's Office by the due date. The Bill or Payment Form can be mailed, faxed, submitted via the Web (using eSIMS), or delivered to the Bursar's Office or drop box. All course selections that are not validated by the due date will be cancelled.

Non-Instructional Fees

Application Fees

Non-refundable, but payable only once at the time of filing an application for admission to any City University college:

Matriculating freshmen	\$65
Transfer Students	\$70
Non-degree Undergraduate Students	\$65
Non-degree Graduate Students	\$125
Consolidated Fee	\$15

per semester or session (payable by all students, including senior citizens).

Technology Fee	\$50.00 (for fewer than 12 credits) \$100.00 (for 12 or more credits)
Change of Program Fee	\$18

Fee charged to students who change their schedule of classes after it has been approved and recorded.

ID Card Replacement	\$10
Late Registration Fee	\$25
Nonpayment Service Fee	\$15

Penalty fee charged to students if they are delinquent in making payment of any amount due after the scheduled due date.

Readmission Fee	\$10
-----------------	------

Students who apply to return to the College after an absence of one semester or more (exclusive of summer session) are required to pay this fee to be readmitted to the same unit. The charge is applicable whether or not a student has taken a formal leave of absence.

Payment Reprocessing Fee	\$15
--------------------------	------

Charge for those students who have previously submitted checks payable to the College that were not honored by

their banks: students who do not make a check good by a given date will be required to satisfy their obligations and pay the applicable reprocessing fee plus a non-payment service fee.

Special Examination Fees

When make-up final exam for one course is taken after scheduled final class exam	\$25
When make-up final exams for two courses are taken	\$30
When make-up final exams for three courses are taken	\$35

CUNY Accelerated Study Fee (for students taking more than 18 credits.) See the information on policies governing excess credit in the "Academic Services and Policies" chapter in this Bulletin. Fees are charged per contact hour.

Credits	Fee
Less than or equal to 2	\$100 semester
Greater than 2 but less than or equal to 4	\$230 semester
Greater than 4 but less than or equal to 6	\$460 semester
Greater than 6	\$690 semester
Senior citizens	\$65 semester
Qualifying Examination Fee	\$25
Transcript-of-Record Fee	\$7

NOTE: No fee is charged for transcripts sent between City University units.

Duplicate Bursar Receipt	\$5
Duplicate Record Fee	\$1
Certificate that degree has been granted	\$15

For issuance of a certificate of graduation to students who request a replacement for a lost diploma.

Cooperating Teachers Fee	\$25
--------------------------	------

Cooperating teachers may be granted tuition waivers of up to 6 credits (two valid certificates) per semester, limited to three successive terms. For courses for which tuition is waived, charges for excess contact hours are also waived. Tuition waivers may be granted to residents and non-residents and are applicable to graduate courses and undergraduate courses.

Cooperating teachers who take credits in excess of those waived are required to pay tuition at applicable regular rates for the additional credits. Cooperating teachers enrolled in courses for which tuition is waived (plus any number of courses for which tuition is not waived) are required to pay the Cooperating Teacher Fee of \$25, the \$15 Consolidated Fee, an Application Fee of \$125, and a Technology Fee of \$37.50.

Miscellaneous Fees

Parking Fees

Cars/Motorcycles:

Day or Evening Session: \$55 per semester

Purchase permit in Shuster Hall, Room 078.

Breakage: As per damage

Loss of Key: \$1.75 (Shuster Hall, Room 031)

Loss of Equipment/Supplies: List Price

Baccalaureate Programs

The Undergraduate General Education Curriculum

Lehman College offers undergraduates the opportunity to deepen their self-knowledge and their understanding of the world by engaging in a thorough study of the liberal arts and sciences. The Undergraduate General Education Curriculum is a structured program of courses designed to provide training in a range of essential skills as well as a broad understanding of the achievements and methods of the liberal arts and sciences, all of which allow informed inquiry into subjects of both public and personal concern.

The curriculum requires a series of courses in writing, mathematics, foreign language, and natural science. Students must also complete courses from a list of Distribution areas. These Distribution areas are different, depending on whether they belong to the **Pre-2013** (p. 28) or the **CUNY 2013 (Pathways) Programs** (p. 32) (see the Navigation Links at the side). In addition, students must complete two upper-division interdisciplinary courses, LEH 351-LEH 355, chosen from five areas: **Scientific and Applied Perspectives, Literature, the Arts, Historical Studies, and Philosophy, Theory and Abstract Thinking**. Of these upper-division courses students receive General Education credit for taking two of the four that are not in their chosen major. To develop writing skills, students must complete four course sections designated as writing-intensive.

Opting in or out of Pathways

- Students who enter Lehman in Fall 2013 or thereafter, either as first-time freshmen or as transfer students from another CUNY college or from a non-CUNY college, will automatically be enrolled in the Pathways curriculum.
- Students who first enrolled at Lehman before Fall 2013, stop out for more than one semester, and reenroll in Fall 2013 or later will be required to follow the Pathways curriculum. However, such students who completed the prior general education curriculum in its entirety will not be subject to any of the Pathways general education requirements.
- Students who reenroll, as well as any other students who feel they need to complete additional requirements under the new curriculum due to their particular course histories, may petition for a variance to continue to be held to the general education requirements that were in effect before Fall 2013.

- Continuing students may choose to opt in to the Pathways curriculum.

Detailed information on the requirements of the General Education Curriculum can be found in this section of the Bulletin, under the headings "**2013 CUNY General Education Program (Pathways)** (p. 32)" and "**Pre-2013 General Education Program** (p. 28)."

Pre 2013 General Education Program (Required Courses)

Lehman College provides undergraduates with not only a major specialization but also training in a range of basic skills and general subjects on beginning, intermediate, and advanced levels. In this way, a bachelor's degree represents both training in a special field and the skills and knowledge to meet life's varied challenges responsibly, intelligently, and creatively.

General Education includes subjects comprising the shared intellectual heritage of our diverse culture. It teaches critical thinking and encourages accurate and effective communication. General Education supports the integration, synthesis, and application of knowledge, and includes proficiency in information literacy. Undergraduate education offers not only specialized knowledge and professional skills but also the multiple views and general intellectual abilities developed by the study of liberal arts and sciences that provide a foundation for independent, responsible living.

Students who entered Lehman College before the fall 2013 semester must meet the Pre-2013 General Education Requirements. There are four categories of required courses: Foundation, Distribution, Integration, and Writing Intensive. For a list of the Pre-2013 General Education courses in each category, select the links in the navigation panel.

Foundation Courses

The Foundation Courses comprise requirements in English Composition (6 credits), Mathematics (3-4 credits), Natural Science (8-10 credits), and Foreign Language (3-9 credits).

English Composition Requirement (6 Credits)

All students must successfully complete a six-credit sequence in English composition (ENG 111-ENG 121). Every student should enroll in an English composition course each semester until ENG 121 is passed. Students who are placed in English as a Second Language courses must complete these courses before taking English Composition. Entering students who

have completed equivalent English composition coursework will be placed in the appropriate course by the English Department.

Mathematics Requirement (3-4 Credits)

Unless exempted, all students are required to successfully complete one three- or four-credit college-level mathematics course numbered 125 or higher, or three one-credit mathematics courses numbered between 180 and 199.

Natural Science Requirement (8-10 Credits)

All students are required to successfully complete two courses in laboratory science from a specified list. The list of approved courses is available from the Academic Information and Advisement Center (Shuster Hall, Room 280) and in the Schedule of Classes distributed prior to registration each semester. The following list is approved for the Fall 2013 semester, and may change for subsequent semesters:

ANT 171	Introduction to Human Evolution	4
ANT 269	Introduction to Human Variation	4
AST 117	Astronomy of Stellar Systems	4
AST 136	Astronomy of the Solar System	4
BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4
BIO 181	Anatomy and Physiology I	4
BIO 182	Anatomy and Physiology II	4
BIO 183	Human Biology	4
BIO 184	Plants and People	4
CHE 114	Essentials of General Chemistry Lecture	3
CHE 115	Essentials of General Chemistry Laboratory	1.5
CHE 120	Essentials of Organic Chemistry Lecture I	3
CHE 121	Essentials of Organic Chemistry Laboratory II	1.5
CHE 136	Elements of Chemistry	4
CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
GEO 101	Dynamic Earth	3
GEO 166	Processes of Global Change	4

GEO 167	Earth Evolution	3
GEO 168	Earth Evolution Laboratory	1
GEP 228	Weather and Climate	3
GEP 229	Weather and Climate Laboratory	1
PHY 135	Fundamental Concepts and Methods of Physics	4
PHY 140	The Physics of Sound	3.5

NOTE: Students entering the Biology, Chemistry, Anthropology/Biology/Chemistry, and Physics majors as well as premedical, and other pre-health program students, may use PHY 166, PHY 167, PHY 168, and PHY 169 to fulfill this requirement.

Foreign Language Requirement (3-9 Credits)

Students with no more than one year of high school credit in a foreign language are required to take a sequence of two language courses for nine credits at the 100 level or the equivalent three-course sequence for nine credits.

Students with more than one year of high school credit in a foreign language may fulfill the requirement with one of the following options:

According to placement by the Languages and Literatures Department, either:

- successfully complete one 200- or 300-level foreign language course;
- successfully complete the final course of a 100-level sequence; or
- successfully complete a sequence of two courses for a total of nine credits at the 100 level in a new language, or the equivalent three-course sequence.

Students for whom English is a second language may fulfill the requirement by:

- successfully completing two courses in ESL at the ESL 103 level or above;
- after placement by the Languages and Literatures Department, successfully completing one course at the 200 or 300 level in the native language; or
- successfully completing two courses for a total of 9 credits in a new language at the 100 level, or the equivalent three-course sequence.

Transfer students who have completed a year of foreign language study at the college level have satisfied the language requirement.

Distribution Courses (7 Courses, 21 Credits)

Every student must complete successfully one course from a specified list in each of the seven areas listed below. The list of approved courses is available at the Academic Information and Advisement Center (Shuster Hall, Room 280) and in the Schedule of Classes, distributed prior to registration each semester. (The list of Distribution Courses is approved each year. The following list is approved for the Fall 2013 semester and may change for subsequent semesters.) No more than two courses from the same department may be used to satisfy the Distribution Requirement.

Area I: Individuals and Society (3 credits)

AAS 239	Black Women in American Society	3
ANT 206/ANT 206/WST 206	Anthropological Perspectives on Women and Men	3
LAC 231/LTS 242/LAC 231	Latinos in the United States	3
LAC 232/LAC 312/LAC 232	Family and Gender Relations Among Latinos	3
LNG 150	The Phenomena of Language	3
POL 217	Criminal Justice	3
POL 230	Immigration and Citizenship	3
PSY 166	General Psychology	3
SOC 166	Fundamentals of Sociology	3

Area II: Socio-Political Structures (3 credits)

AAS 166	Introduction to African and African American Studies	3
AAS 225	The Contemporary Urban Community	3
AAS 248	African History	3
ANT 211	Cultural Anthropology	3
ECO 166	Introduction to Macroeconomics	3
GEH 101	An Introduction to Geography	3
GEH 235	Conservation of the Environment	3
GEP 204	Basic Mapping: Applications and Analysis	3
POL 150	Contemporary Political Issues	3
POL 166	The American Political System	3
POL 211	Public Policy	3

Area III: Literature (3 credits)

AAS 241/AAS 241/LAC 241	Literature of the English & Francophone Caribbean	3
AAS 242	African Literature	3
AAS 267	African-American Literature	3
ENG 222	Literary Genres	3
ENG 223	English Literature	3
ENG 226	Shakespeare Now	3
ENG 227	American Literature	3
ENG 229	Contemporary Urban Writers	3
ENG 234/WST	Women in Literature	3

234/ENG 234		
ENG 260	Diverse Voices in American Literature	3
FRE 232	The Francophone World (In Translation)	3
IDW 211/CLT 211/IDW 211	Classics of the Western World: Ancient and Medieval	3
IDW 212/CLT 212/IDW 212	Classics of the Western World II: Renaissance and Modern	3
IDW 213/CLT 213/IDW 213	Classics of the Asian World	3
LAC 214/AAS 214/LAC 214/LTS 214	Literature of the Caribbean and the Caribbean Diaspora	3
SPA 233/LAC 233/SPA 233	Latin American Literature in Translation	3

ENG 300: English Literature I: fulfills Area III requirement for English majors in the ECCE certification sequence

Area IV: The Arts (3 credits)

AAS 266	Contemporary Black Music	3
ARH 135	Introduction to the History of Asian Art-Islamic, Buddhist, and Hindu Cultures	3
ARH 137	Introduction to the History of the Arts of Africa, the Americas, and the South Pacific	3
ARH 141	Introduction to the History of Modern Art of the 19th & 20th Centuries in Europe & the US	3
ARH 167	Tradition and Innovation in the Art of the West	3
ART 109	Observation and the Visual Experience	3
ART 110	Elements of Visual Communication	3
DNC 235	Dance Perspectives	3
HUM 250	The City and the Theatre	3
MSH 114	Introduction to Music	3
THE 241/THE 241	The Art of the Theatre	3
THE 243	Queer Theatre	3

Area V: Comparative Culture (3 credits)

AAS 232	African Civilizations	3
AAS 235/AAS 235/LAC 235	Caribbean Societies	3
AAS 240/AAS 240/WST 240	Women in African Society	3
ANT 210/ANT 210/LAC 210/WST 210	Women in Latin America	3
ANT 230	Selected Studies in Societies and Cultures (Africa)	3

ANT 231/MES 231/ANT 231 ANT 232	Selected Studies in Societies and Cultures: Middle East Selected Studies in Societies and Cultures (Europe)	3 3
ANT 233	Selected Studies in Societies and Cultures (India)	3
ANT 234	Selected Studies in Societies and Cultures (Oceania)	3
ANT 235	Selected Studies in Societies and Cultures (Native North America)	3
ANT 236	Selected Studies in Societies and Cultures (Southeast Asia)	3
ANT 237	Selected Studies in Societies and Cultures (East Asia)	3
LAC 238/LAC 238/ANT 238	Selected Studies in Societies and Cultures (Latin America)	3
GEH 240	Urban Geography	3
HIS 240	East Asian Civilization	3
HIS 249/HIS 249/MES 249	Islamic Civilization	3
IAS 250/ANT 250/IAS 250/SOC 250	The Italian-American Community	3
MES 245	Introduction to Middle Eastern Studies	3
POL 266	Politics and Culture	3
POL 220/POL 220/RUS 220	Russia Today	3
WST 220	Introduction to Women's Studies	3
Area VI: Historical Studies (3 credits)		
AAS 245	History of African Americans	3
ANT 212	Ancient Peoples and Cultures	3
HIS 241	Early Modern Europe, 1400- 1815	3
HIS 242	Contemporary European History	3
HIS 243/HIS 243/HIS 273	Foundations of the United States	3
HIS 244/HIS 244/HIS 274	Modern United States History	3
HIS 246/HIS 246/HIS 276	Civilizations of the Ancient World	3
HIS 247	Medieval Civilization	3
LAC 266/HIS 266/LAC 266	Introduction to Latin America and the Caribbean I	3
LAC 267/HIS 267/LAC 267	Introduction to Latin America and the Caribbean II	3
POL 241	Globalization	3
HIU 348	History of New York: City and State	3

HIU 348: Fulfills Area VI requirement for History majors in the ECCE certification sequence

Area VII: Knowledge, Self, and Values (3 credits)

AAS 269/AAS 269/PHI 269	Introduction to African Philosophy	3
ACU 266	Classical Myth and the Human Condition	3
AMS 111	American Culture-Value and Traditions	3
AAS 269/AAS 269/PHI 269	Introduction to African Philosophy	3
PHI 169/PHI 229/PHI 169	Critical Reasoning	3
PHI 170	Introduction to Logic	3
PHI 171	Problems of Philosophy	3
PHI 172	Contemporary Moral Issues	3
PHI 173	Justice and Society	3
PHI 174	Theories of Human Nature	3
PHI 175	Philosophy of Religion	3
PHI 177/PHI 168/PHI 177	Philosophy of Contemporary Music	3
POL 172	Great Political Thinkers	3

Integration Courses (2 Courses, 6 Credits)

This requirement applies only to students in the upper division, i.e. juniors and seniors. After earning a minimum of 60 credits or earning an Associate's Degree, and officially selecting a major, all upper-division students must complete two different LEH courses in topics outside their major from four of the following five courses. The restrictions for each course are provided in Note 2 for each course. (Students who completed LEH 100, LEH 101, or LEH 110 prior to Fall 2008 may substitute this course for one of the LEH 351-LEH 355 requirements.) Each semester, a series of topics for these courses will be announced in the Schedule of Classes.

LEH 351. Studies in Scientific and Applied Perspectives. 3 hours, 3 credits (may be repeated for credit with a different topic). Selected topics in the social sciences, life and physical sciences and applied perspectives. PREREQ: official selection of a major and either completion of 60 General Education credits or an Associate's Degree.

NOTE 1: In general, students should expect writing assignments and computer-based work along with research involving the library and the Internet.

NOTE 2: This course grants general education credit towards graduation for students in all major concentrations except Accounting, Anthropology, Anthropology (interdisciplinary concentration), Biology, Business Administration, Chemistry, Computer Graphics and Imaging, Computer Information Systems, Computer Science, Dietetics, Food, and Nutrition,

Economics, Exercise Science, Geography, Health Education and Promotion, Health Education N-12, Health Services Administration, Italian American Studies, Mathematics, Nursing, Physics, Political Science, Psychology, Recreation Education, Social Work, Sociology, Speech Pathology and Audiology.

LEH 352. Studies in Literature. *3 hours, 3 credits* (may be repeated for credit with a different topic). Selected topics in literature. PREREQ: official selection of a major and either completion of 60 General Education credits or an Associate's Degree.

NOTE 1: In general, students should expect writing assignments and computer –based work along with research involving the library and the Internet.

NOTE 2: This course grants general education credit towards graduation for students in all major concentrations except Comparative Literature, English, French, Italian, Latin, and Spanish.

LEH 353. Studies in the Arts. *3 hours, 3 credits* (may be repeated for credit with a different topic). Selected topics in the arts. PREREQ: official selection of a major and either completion of 60 General Education credits or an Associate's Degree.

NOTE 1: In general, students should expect writing assignments and computer –based work along with research involving the library and the Internet.

NOTE 2: This course grants general education credit towards graduation for students in all major concentrations except Art, Dance, and Music.

LEH 354. Studies in Historical Studies. *3 hours, 3 credits* (may be repeated for credit with a different topic). Selected topics in historical studies. PREREQ: official selection of a major and either completion of 60 General Education credits or an Associate's Degree.

NOTE 1: In general, students should expect writing assignments and computer –based work along with research involving the library and the Internet.

NOTE 2: This course grants general education credit towards graduation for students in all major concentrations except Africana Studies, History, Latin American and Caribbean Studies, Latino Studies.

LEH 355. Studies in Philosophy, Theory and Abstract Thinking. *3 hours, 3 credits* (may be repeated for credit with a different topic). Selected topics in philosophy, theory and abstract thinking. PREREQ: official selection of a major and either completion of 60 General Education credits or an Associate's Degree.

NOTE 1: In general, students should expect writing assignments and computer –based work along with research involving the library and the Internet.

NOTE 2: This course grants general education credit towards graduation for students in all major concentrations except Philosophy.

College Writing Requirement (4 Course Sections)

Students must complete four courses designated as writing-intensive, three prior to earning the 60th credit and one following. Individual sections of courses will be designated as writing-intensive, and students may take writing-intensive sections of courses in General Education, major, minor, and elective courses.

2013 CUNY General Education Program (Pathways): Required Courses

Lehman College provides undergraduates with not only a major specialization but also training in a range of basic skills and general subjects on beginning, intermediate, and advanced levels. In this way, a bachelor's degree represents both training in a special field and the skills and knowledge to meet life's varied challenges responsibly, intelligently, and creatively.

Beginning in fall 2013, CUNY instituted a common General Education structure (called "Pathways") whose purpose is to improve the ability of students to transfer within the university. Lehman's 2013 CUNY General Education Program (Pathways) conforms to the new CUNY structure. The college's General Education categories remain the same, but the individual course requirements in some cases have changed. Lehman's categories represent the following parts of the CUNY Pathways structure:

- Foundation = CUNY Required Core (plus the College Option in Foreign Language)
- Distribution = CUNY Flexible Core
- Integration = CUNY College Option

Lehman's courses in the 2013 CUNY General Education Curriculum include subjects comprising the shared intellectual heritage of our diverse culture. They teach critical thinking and encourage accurate and effective communication. General Education supports the integration, synthesis, and application of knowledge, and includes proficiency in information literacy. Undergraduate education offers not only specialized knowledge and professional skills but also the multiple views and general intellectual abilities developed by the study of liberal arts and sciences that provide a foundation for independent, responsible living.

Students who enter Lehman College in the fall 2013 semester or later must meet the 2013 CUNY General Education

Requirements. There are four categories of required courses: Foundation ("Required Core" plus "College Option,"), Distribution ("Flexible Core"), Integration ("College Option"), and Writing Intensive. For a list of the 2013 CUNY General Education courses in each category, select the links in the navigation side panel.

(NOTE: The Foreign Language and Integration Requirements are waived for students in the Lehman Scholars Program and the Macaulay Honors College, which have their own requirements in these areas.)

Foundation Courses (6 Courses, 18-21 Credits)

Foundation courses include CUNY's Required Common Core plus Foreign Language in CUNY's College Option.

The Foundation Courses comprise requirements in **English Composition (6 credits)**, **Mathematical and Quantitative Reasoning (3-4 credits)**, **a Lab Science: Life and Physical Science (3 credits)**, and **Foreign Language (6 credits)**.

Students may substitute STEM variants for the mathematics and science courses.

English Composition Requirement (6 Credits)

All students must successfully complete a six-credit sequence in English composition (ENG 111-ENG 121). Honors students complete (ENG 113-ENG 123). Every student should enroll in an English composition course each semester until ENG 121 is passed. Students who are placed in English as a Second Language courses must complete these courses before taking English Composition. Entering students who have completed equivalent English composition coursework will be placed in the appropriate course by the English Department.

Mathematical and Quantitative Reasoning Requirement (3-4 Credits)

All students are required to successfully complete either MAT 126: Quantitative Reasoning or MAT 128: Foundations of Data Science. Students may substitute one of the mathematics courses in the list of STEM Variants.

Life and Physical Science Requirement (3-5 Credits)

All students are required to successfully complete one course in a laboratory science from the following list of courses.

ANT 120	Human Evolutionary Biology	3
AST 102	Introduction to the Universe	3
BIO 173	Concepts of Human Biology	3
CHE 137	Elements of Chemistry I	3
PHY 131	Conceptual Physics	3
PHY 141	Sound, Speech and Music	3
PHY 151	Energy and the Environment	3

CHE 137: Has a Corequisite in Distribution Courses: Scientific World CHE 138.

Students may substitute for any of these courses one of the science courses in the list of STEM Variants (see the left navigation panel access this list).

Foreign Language Requirement (6 Credits)

Students are required to take two foreign language courses in the same language (including American Sign Language). This is part of the CUNY Pathways College Option.

Only students who transfer into Lehman with an associate's degree are exempt from the Foreign Language Requirement.

Students who continue in a foreign language previously studied in high school or college must be placed in the proper sequential course by the Languages and Literatures Department. If a student completes one semester of a foreign language at the intermediate level or above (numbered 201 or higher), one Foreign Language Option course may be substituted for the second required language course with the permission of the Languages and Literatures Department (if a language course is chosen it cannot be the same language as the student's 200-level course). The following courses comprise the Foreign Language Option:

ARB 111	Elementary Arabic I	3
ARB 112	Elementary Arabic II	3
CHI 111	Elementary Chinese I	3
CHI 112	Elementary Chinese I I	3
ENG 223	English Literature	3
ENG 226	Shakespeare Now	3
ENG 227	American Literature	3
FRE 111	Elementary French I	3
FRE 112	Elementary French II	3
HIS 240	East Asian Civilization	3
HIS 246/HIS 246/HIS 276	Civilizations of the Ancient World	3
HIS 249/HIS 249/MES 249	Islamic Civilization	3
IRI 111	Elementary Irish I	3
IRI 112	Elementary Irish II	3
ITA 111/ITA 101/ITA 105/ITA 111	Elementary Italian I	3
ITA 112	Elementary Italian II	3
JAL 111	Elementary Japanese I	3
JAL 112	Elementary Japanese II	3
PHI 169/PHI 229/PHI 169	Critical Reasoning	3
PHI 170	Introduction to Logic	3
PHI 171	Problems of Philosophy	3
POL 229	Classical Political Economy	3
SPA 111/SPA 101/SPA 105/SPA 111	Elementary Spanish I	3

SPA 112/SPA 102/SPA 106/SPA 112	Elementary Spanish II	3
SPV 101	Introduction to American Sign Language I	3
SPV 102	Introduction to American Sign Language II	3

(These courses cannot also serve to meet Common Core requirements.)

Foreign Language Requirement Prior to Fall 2020

Distribution Courses (6 Courses, 18-20 Credits)

Distribution courses are the Flexible Common Core in CUNY General Education.

Every student must choose and successfully complete one course from these Distribution courses in each of the five areas listed below, and a sixth course from any of the areas. No more than two courses from the same discipline may be used to satisfy the Distribution Requirement.

Area I: World Cultures and Global Issues (3 credits)

AAS 166	Introduction to African and African American Studies	3
AAS 225	The Contemporary Urban Community	3
AAS 232	African Civilizations	3
AAS 235/AAS 235/LAC 235	Caribbean Societies	3
AAS 240/AAS 240/WST 240	Women in African Society	3
ANT 210/ANT 210/LAC 210/WST 210	Women in Latin America	3
ANT 238/LAC 238/ANT 238	Selected Studies in Societies and Culture: Latin America	3
GEH 101	An Introduction to Geography	3
GEH 240	Urban Geography	3
HIS 212/LTS 212/HIS 212	History of Puerto Rico	3
HIS 240	East Asian Civilization	3
HIS 241	Early Modern Europe, 1400-1815	3
HIS 242	Contemporary European History	3
HIS 246/HIS 246/HIS 276	Civilizations of the Ancient World	3
HIS 247	Medieval Civilization	3
HIS 249/HIS 249/MES 249	Islamic Civilization	3
HIS 266/HIS 266/LAC 266	Introduction to Latin America and the Caribbean I	3
HIS 267/HIS 267/LAC 267	Introduction to Latin America and the Caribbean II	3

LTS 212/LTS 212/HIS 212	History of Puerto Rico	3
LTS 213	Puerto Rican Culture: Global Identities	3
MES 245	Introduction to Middle Eastern Studies	3
PHI 269/AAS 269/PHI 269	Introduction to African Philosophy	3
POL 220/POL 220/RUS 220	Russia Today	3
POL 240	International Politics	3
POL 241	Globalization	3
POL 266	Politics and Culture	3
POL 268	Comparative Politics	3
SOC 245	Social Processes of Global Interdependencies	3
WST 220	Introduction to Women's Studies	3

Area II: U.S. Experience in Its Diversity (3 credits)

AAS 228/WST 228/AAS 228	African American Families	3
AAS 239	Black Women in American Society	3
AAS 245	History of African Americans	3
AMS 111	American Culture-Value and Traditions	3
DST 200	Introduction to Disability Studies	3
HIS 243/HIS 243/HIS 273	Foundations of the United States	3
HIS 244/HIS 244/HIS 274	Modern United States History	3
HSD 266	The U.S. Health Care Delivery System	3
LAC 231/LTS 242/LAC 231	Latinos in the United States	3
LAC 232/LAC 312/LAC 232	Family and Gender Relations Among Latinos	3
LTS 269	History of U.S. Latinos	3
POL 166	The American Political System	3
POL 211	Public Policy	3
POL 217	Criminal Justice	3
POL 230	Immigration and Citizenship	3
POL 234/LAC 234/LTS 234/POL 234	Latino Politics	3
SOC 234	Urban Sociology	3

Area III: Creative Expression (3 credits)

AAS 213	African American Art	3
AAS 238/THE 238/AAS 238	African American Theatre	3
AAS 241/AAS 241/LAC 241	Literature of the English & Francophone Caribbean	3

AAS 242	African Literature	3	ECO 166	Introduction to Macroeconomics	3
AAS 266	Contemporary Black Music	3	ECO 167	Introduction to Microeconomics	3
AAS 267	African-American Literature	3	PHI 171	Problems of Philosophy	3
ARH 135	Introduction to the History of Asian Art-Islamic, Buddhist, and Hindu Cultures	3	PHI 172	Contemporary Moral Issues	3
ARH 137	Introduction to the History of the Arts of Africa, the Americas, and the South Pacific	3	PHI 173	Justice and Society	3
ARH 141	Introduction to the History of Modern Art of the 19th & 20th Centuries in Europe & the US	3	PHI 174	Theories of Human Nature	3
ARH 143/ARH 143/LAC 143	Introduction to the History of Latin American Art	3	PHI 175	Philosophy of Religion	3
ARH 167	Tradition and Innovation in the Art of the West	3	PHI 176	Philosophy of Freedom	3
ART 109	Observation and the Visual Experience	3	POL 150	Contemporary Political Issues	3
DNC 235	Dance Perspectives	3	POL 172	Great Political Thinkers	3
ENG 222	Literary Genres	3	POL 229	Classical Political Economy	3
ENG 223	English Literature	3	PSY 166	General Psychology	3
ENG 226	Shakespeare Now	3	SOC 166	Fundamentals of Sociology	3
ENG 227	American Literature	3	SOC 227	Sociology of the Family	3
ENG 229	Contemporary Urban Writers	3	SOC 228	Sociological Perspectives on Gender and Society	3
ENG 234/WST 234/ENG 234	Women in Literature	3			
ENW 201	Writing Essentials	3			
ENW 210	Introduction to Creative Writing	3			
IDW 211/CLT 211/IDW 211	Classics of the Western World: Ancient and Medieval	3			
IDW 212/CLT 212/IDW 212	Classics of the Western World II: Renaissance and Modern	3			
LAC 214/AAS 214/LAC 214/LTS 214	Literature of the Caribbean and the Caribbean Diaspora	3			
LAC 233/LAC 233/SPA 233	Latin American Literature in Translation	3			
MSH 114	Introduction to Music	3			
MSH 115	World Music	3			
MSH 245	The American Musical Experience	3			
THE 238/AAS 238/THE 238	African American Theatre	3			
THE 241/THE 241	The Art of the Theatre	3			
Area IV: Individual and Society (3 credits)			Area IV Individual and Society Prior to Fall 2020		
ANT 206/ANT 206/WST 206	Anthropological Perspectives on Women and Men	3	Area V: Scientific World (3 credits)		
ANT 211	Cultural Anthropology	3	ANT 212	Ancient Peoples and Cultures	3
DNC 222	The Body and Society	3	AST 101	Introduction to Astronomy	3
			CHE 138	Elements of Chemistry II	3
			ENV 210	Introduction to Environmental Science	3
			ENV 235	Conservation of the Environment	3
			HIS 239	The Ascent of Man: An Introduction to the History of Science	3
			LNG 246/LNG 246/SPV 246	Introduction to Linguistics	3
			PHI 169/PHI 229/PHI 169	Critical Reasoning	3
			PHI 170	Introduction to Logic	3
			PSY 200	Critical Thinking in Psychology	3
			*Students may satisfy the Scientific World requirement with a course in science from the STEM Variant Course list, see the navigation panel on the left side.		
			CHE 138: Has a Corequisite in Foundation Courses: Life and Physical Science CHE 137.		
			Integration Courses (2 Courses, 6 Credits)		
			Integration Courses are the College Option in CUNY General Education.		
			<i>This requirement applies only to students in the upper division, i.e. juniors and seniors. After earning a minimum of 60 credits or earning an Associate's Degree, and officially selecting a major, all upper-division students must complete two LEH courses. The two are to be chosen in topics outside their major from four of the following five variable topics courses. Each semester, a series of topics for these courses will be announced in the Schedule of Classes.</i>		

LEH 351: Studies in Scientific and Applied Perspectives. 3 hours, 3 credits (may be repeated for credit with a different topic). Selected topics in the social sciences, life and physical sciences and applied perspectives. Prerequisites: official selection of a major and either completion of 60 General Education credits or an Associate's Degree.

NOTE 1: In general, students should expect writing assignments and computer-based work along with research involving the library and the Internet.

NOTE 2: This course grants general education credit towards graduation for students in all major concentrations except Accounting, Anthropology, Anthropology, Biology, Biology Teacher Grades 7-12, Biology BS/MS Dual Degree, Chemistry, Biology, Business Administration, Chemistry, Computer Graphics and Imaging, Computer Information Systems, Computer Science, Dietetics, Foods, and Nutrition, Earth Science, Economics, Economics and Mathematics, Environmental Science, Exercise Science, Geography, Geology, Health Education and Promotion, Health Education N-12, Health Services Administration, Italian American Studies, Linguistics, Mathematics, Nursing, Physics, Political Science, Psychology, Recreation Education, Social Work, Sociology, Speech Pathology and Audiology, Therapeutic Recreation.

LEH 352: Studies in Literature. 3 hours, 3 credits (may be repeated for credit with a different topic). Selected topics in literature. Prerequisites: official selection of a major and either completion of 60 General Education credits or an Associate's Degree.

NOTE 1: In general, students should expect writing assignments and computer-based work along with research involving the library and the Internet.

NOTE 2: This course grants general education credit towards graduation for students in all major concentrations except Comparative Literature, English, French, French Teacher Education 7-12, Italian, Italian Teacher Education 7-12, Latin, Russian, Spanish and Spanish Teacher Education 7-12.

LEH 353: Studies in the Arts. 3 hours, 3 credits (may be repeated for credit with a different topic). Selected topics in the arts. Prerequisites: official selection of a major and either completion of 60 General Education credits or an Associate's Degree.

NOTE 1: In general, students should expect writing assignments and computer-based work along with research involving the library and the Internet.

NOTE 2: This course grants general education credit towards graduation for students in all major concentrations except Art, Art History, Dance, Dance-Theatre, Film and Television

Studies, Journalism, Media Communications Studies, Multimedia Performing Arts, Music, Theatre.

LEH 354: Studies in Historical Studies. 3 hours, 3 credits (may be repeated for credit with a different topic). Selected topics in historical studies. Prerequisites: official selection of a major and either completion of 60 General Education credits or an Associate's Degree.

NOTE 1: In general, students should expect writing assignments and computer-based work along with research involving the library and the Internet.

NOTE 2: This course grants general education credit towards graduation for students in all major concentrations except Africana Studies, American Studies, History, History (Teacher Education), Latin American and Caribbean Studies, Latino Studies.

LEH 355: Studies in Philosophy, Theory and Abstract Thinking. 3 hours, 3 credits (may be repeated for credit with a different topic). Selected topics in philosophy, theory and abstract thinking. Prerequisites: official selection of a major and either completion of 60 General Education credits or an Associate's Degree.

NOTE 1: In general, students should expect writing assignments and computer-based work along with research involving the library and the Internet.

NOTE 2: This course grants general education credit towards graduation for students in all major concentrations except Philosophy.

College Writing Requirement

Students must complete four courses designated as writing-intensive, three prior to earning the 60th credit and one following. Individual sections of courses will be designated as writing-intensive, and students may take writing-intensive sections of courses in General Education, major, minor, and elective courses.

Transfer students who have completed less than 30 college credits must complete four courses designated as writing-intensive; those who have completed at least 30 but less than 60 college credits must complete three courses designated as writing-intensive; those who have completed 60 or more college credits must complete two courses designated as writing-intensive.

College Writing Requirement Prior to Spring 2020

STEM Variant Courses

Students may substitute courses from this list of required courses in mathematics and laboratory science for the required courses in Mathematical and Quantitative Reasoning (Foundation), in Life and Physical Sciences (Foundation), or Scientific World (Distribution Courses). These STEM

(Science, Technology, Engineering, Mathematics) courses will meet the General Education Requirements in the appropriate areas.

For Quantitative and Mathematical Reasoning

MAT 128	Foundations of Data Science	3
MAT 132	Introduction to Statistics	4
MAT 171	Elements of Precalculus	4
MAT 172	Precalculus	4
MAT 174	Elements of Calculus	4
MAT 175	Calculus I	4
MAT 176	Calculus II	4

For Life and Physical Science or Scientific World:

ANT 171	Introduction to Human Evolution	4
ANT 269	Introduction to Human Variation	4
AST 117	Astronomy of Stellar Systems	4
BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4
BIO 181	Anatomy and Physiology I	4
BIO 182	Anatomy and Physiology II	4
BIO 183	Human Biology	4
CHE 114	Essentials of General Chemistry Lecture	3
CHE 115	Essentials of General Chemistry Laboratory	1.5
CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
GEO 101	Dynamic Earth	3
GEO 167	Earth Evolution	3
GEP 204	Basic Mapping: Applications and Analysis	3
PHY 135	Fundamental Concepts and Methods of Physics	4
PHY 140	The Physics of Sound	3.5
PHY 166	General Physics I	5
PHY 167	General Physics II	5
PHY 168	Physics I for Scientists and Engineers	5
PHY 169	Physics II for Scientists and	5

Engineers

Special Curriculum Programs

In addition to the Undergraduate General Education Curriculum, Lehman offers several other curricula that satisfy the liberal arts and sciences requirement.

Macaulay Honors College at Lehman

The Macaulay Honors College at Lehman College admitted its first class in September 2002. Member of the Honors College are designated "University Scholars." They receive full tuition, stipends, laptop computers, and an opportunities fund for academic enrichment experiences, such as study abroad. A "Cultural Passport" provides entree to concerts, the theater, museums, and other cultural institutions in New York City. Passport activities will also put students in contact with people active in many facets of city life, the arts, government, business, and science.

Criteria for selection include the student's high school academic record, SAT/ACT scores, an essay, two letters of recommendation, and an interview.

Students intending to apply for Macaulay must apply directly from high school; Macaulay does not accept transfers from any institution. Students wishing to apply should consult the Macaulay homepage through the CUNY Portal at www.cuny.edu and select "Apply Online." The curriculum of the Honors College is seminar based, and the program offers rich opportunities for academic enhancement and intellectual growth, supplemented by study abroad, internships, preparation for graduate school, and global engagement.

The Lehman Scholars Program

The Lehman Scholars Program, established in 1980, offers capable and highly motivated students the atmosphere of a small, intimate college. The program features small seminars, mentors, and an extra-credit option. It provides an introduction to the liberal arts in the areas of English, foreign languages, natural science, social science, humanities, and the fine and performing arts. Students with a minimum GPA of 3.5 are eligible to apply to the program at any point prior to the completion of sixty-four credits. For further information, see the information contained in the chapter on "Academic Departments and Programs (p. 64)" of this Bulletin.

Teacher Academy

Students in this CUNY program are committed to teaching math or science in New York City's public schools and pursue a rigorous academic program with early participation in the schools. They receive four years of free tuition as well as paid internships and may qualify for an additional Lehman College Foundation scholarship. As Teacher Academy students at

Lehman College, they major in mathematics or science, with a minor in middle and high school education, and learn in a "college within a college" environment. They receive special advisement, are placed in small classes, and become part of a supportive community of fellow students and faculty. Students also take part in fieldwork in a local school setting, beginning during the freshman year with observations and culminating with student teaching during the senior year. All fieldwork is linked to courses, providing a bridge between theory and practice. Teacher Academy students also have opportunities to work with nationally and internationally recognized faculty and to pursue undergraduate research with the guidance of faculty mentors. ***Currently, admission for a new class of the Teacher Academy students has been temporarily suspended.***

Adult Degree Program

The Adult Degree Program offers incoming students twenty-five years of age or older a flexible curriculum under close faculty supervision. Students may earn up to thirty credits through internship, research, and tutorials. Up to fifteen of these credits may be awarded for life experience. For further information on this program, see the information on "Individualized Study Programs (p. 67)" contained later in this Bulletin.

Individualized Bachelor of Arts Program

The Individualized Bachelor of Arts Program offers students who have more than thirty but fewer than ninety credits an opportunity to establish, with the assistance and approval of a faculty committee, their own individualized major. For further information on this program, see the information on "Individualized Study Programs (p. 67)" contained later in this Bulletin.

Bachelor of Arts-Master of Arts (B.A.-M.A.) Program

The Bachelor of Arts-Master of Arts (B.A.-M.A.) Program is an option for entering freshmen with superior academic backgrounds. Students may arrange with departments offering both the B.A. and M.A. a suitable course of study that, at the end of four years, will lead to simultaneous awarding of the degrees. To be eligible, entering freshmen must have high school averages of better than 90 and scores of at least 600 in the verbal and mathematics sections, respectively, of the Scholastic Aptitude Test. Matriculated students who wish to be considered must have achieved a cumulative index of at least 3.4 in no more than fifty-four earned credits. The B.A.-M.A. Program requires attendance in at least one Lehman College summer session, preferably between the junior and senior years or after completion of ninety credits.

Second Undergraduate Degree Program

Lehman College accepts candidates for a second undergraduate degree when specific professional purposes dictate the need and when the second degree represents preparation discrete from the preparation identified by the first bachelor's degree. Candidates must complete a minimum of thirty credits in residence (see the definition of residence credits under the heading of "Credit Requirements (p. 43)" later in this chapter) and must fulfill all the requirements for the new major and/or interdisciplinary program. Students must take the English Transfer Placement Exam and complete the College writing requirement as determined by that examination.

The liberal arts requirements from the first degree may satisfy the requirements for the second degree. In general, candidates will have fulfilled the College requirements with the first degree, but specific requirements may be recommended. Candidates for a second bachelor's degree must have their curricula approved by the Office of Academic Standards and Evaluation (Shuster Hall, Room 280).

CUNY Baccalaureate Program

Lehman participates in the CUNY Baccalaureate Program, which allows students the opportunity to earn up to thirty credits through internship, research, or work experience (fifteen of which may be earned for prior work experience) and to take courses at other senior colleges within CUNY. For further information, consult the Academic Information and Advisement Center (Shuster Hall, Room 280).

Interdisciplinary and Interdepartmental Programs

Lehman offers students the opportunity to earn a bachelor's degree in one of these interdisciplinary or interdepartmental programs: Anthropology (Physical), Biology, and Chemistry; Comparative Literature; Computer Graphics & Imaging; Computer Information Systems; Economics and Mathematics; Environmental Science; Italian-American Studies; Latin American & Caribbean Studies; Linguistics and Multimedia Performing Arts. Interdisciplinary and interdepartmental courses are also offered in the Humanities, the Natural and Social Sciences, Urban Studies, Women's Studies, and World Classics.

Inventory of Undergraduate Program Names and Degrees as Registered with the State of New York

(NOTE: The following list contains the names of Lehman College programs that have been registered with the New York State Education Department. The list includes the names

of certain programs no longer offered by the College; it will be the responsibility of each student to determine which programs are currently being offered. Students are cautioned that enrollment in other than registered or otherwise approved programs may jeopardize the students' eligibility for certain student financial aid awards.)

HEGIS #	Degree	Program Title			
0502	BA/BS	Accounting	1914	BA	Geology Teacher
2211	BA	Africana Studies	0837	BS	Health Education & Promotion
2202	BA	Anthropology	0837	BS	Health N-12 Teacher
2202	BS	Anthropology (Physical), Biology, and Chemistry [interdepartmental concentration]	0837	BS	Health B-12
1002	BA	Art	1202	BS	Health Services Administration
1002	BFA	Art	2205	BA	History
1003	BA	Art History	2205	BA	History Teacher
1002	BA	Art Teacher, All Grades	1104	BA	Italian
0401	BA/BS	Biology	1104	BA	Italian 7-12
0401	BA	Biology 7-12	0399	BA	Italian-American Studies
0506	BBA	Business Administration	0699	BA	Journalism
1905	BA/BS	Chemistry	1109	BA	Latin
1905	BA	Chemistry 7-12	0308	BA	Latin American & Caribbean Studies
1503	BA	Comparative Literature (interdepartmental)	0308	BA	Latino Studies
1009	BS	Computer Graphics & Imaging	1505	BA	Linguistics
0702	BS	Computer Information Systems	1701	BA	Mathematics
0701	BA/BS	Computer Science	1701	BA/MA	Mathematics dual
1008	BA	Dance	1701	BA	Mathematics 7-12
1306	BS	Dietetics, Foods, & Nutrition	0601	BA	Media Communications Studies
1914	BA	Earth Science	1008	BFA	Multimedia Performing Arts
2204	BA	Economics	1004	BS	Music
1501	BA	English	1203	BS	Nursing
1501	BA	English 7-12	1509	BA	Philosophy
0420	BS	Interdisciplinary Environmental Science	1902	BA/BS	Physics
1299	BS	Exercise Science	2207	BA	Political Science
0601	BA	Film and TV Studies	2001	BA	Psychology
1102	BA	French	0835	BA/BS	Recreation Education
1102	BA	French 7-12	4901	BA/BS	Self-Determined Studies
2206	BA	Geography	2104	BA	Social Work
			2208	BA	Sociology
			1105	BA	Spanish
			1105	BA	Spanish 7-12
			1220	BA	Speech Pathology & Audiology
			1007	BA	Theatre
			2199	BS	Therapeutic Recreation

Certificate Programs

5310	Cert	Digital Technology and Electronics
5399	Cert	Geographic Information Systems

Professional and Preprofessional Programs

Pre Health

The Lehman College Pre Health Advisory Office is designed to facilitate the successful transition of Lehman College undergraduate, graduate, and non-matriculated students to careers in the health professions. The health professions that are targeted by the program include:

- Dentistry
- Medicine
- Optometry
- Pharmacy
- Physical Therapy
- Physicians Assistant
- Veterinary Medicine

The Pre Health Office is committed to providing support that is needed to prepare students for the rigorous demands of the health professions. These goals are met by building a strong science background in students, providing students with opportunities to engage in science research through Lehman College or with health professional schools, building a sense of civic duty to their communities, and empowering them to become involved with members of their respective desired health professions.

After admission to Lehman College, the student preparing for any of the previously listed careers should speak with the premedical advisor (Davis Hall, Room 118).

<https://tmg-web.lehman.edu/academics/pre-health-advising/index.php>

Prelaw

Students considering careers in the law have many opportunities at Lehman College. Legal educators recommend that students preparing for law school follow a course of study that develops a critical understanding of the institutions and values with which the law deals, the ability to think analytically, to conduct independent research, and to write and speak effectively. A comprehensive liberal arts education — including a major stressing these essential skills, courses in philosophy, such as critical thinking and the philosophy of law, and courses in English such as advanced expository writing — offers the best foundation for law school. A minor in political science is helpful. Students interested in law school should meet with the College's prelaw adviser for information and counseling. For referral to the prelaw adviser,

see the Academic Information and Advisement Center (Shuster Hall, Room 280).

Professional Option

Lehman College offers a professional option that allows students to complete the undergraduate degree at an accredited professional school in their senior year. To apply for this option, students must have fulfilled all general education requirements for the degree, at least half of the major and minor, and ninety or more credits, with at least thirty earned at Lehman. With departmental approval, the major and the minor may be completed at the professional school. This option is open to students in pre dental, premedical, preveterinary, and prelaw. Information and applications are available in the Office of Academic Standards and Evaluation (Shuster Hall, Room 280).

Pre-Engineering Transfer Program

Lehman College offers a Pre-engineering Transfer Program, administered by the Department of Physics and Astronomy. Students study at Lehman for two years before transferring to the School of Engineering at City College. (For more information, consult the pre-engineering adviser in Gillet Hall, Room 131.)

The only complete engineering program in CUNY is at City College. Students at Lehman College can transfer to the School of Engineering at City College after completing twenty-four credits, including two semesters of calculus and one semester of either physics or chemistry. Although a well-prepared student can complete these requirements in two semesters, it is strongly recommended that a student entering this program should plan to spend three semesters at Lehman College, taking the following courses:

English

English.

ENG 111	English Composition I And	3
ENG 121	English Composition II	3

Mathematics

MAT 175	Calculus I	4
MAT 176	Calculus II And	4
MAT 226	Vector Calculus	4

Physics

PHY 168	Physics I for Scientists and Engineers	5
PHY 169	Physics II for Scientists and Engineers	5

Chemistry

CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5

CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5

Teacher Education Programs

Teacher preparation at Lehman is based on a firm foundation in the liberal arts and sciences. Students who plan to teach at the early childhood, childhood, or middle and secondary levels must major in one of the liberal arts, physical or social sciences, or mathematics. Prospective teachers also enroll in an appropriate education sequence in one of the following two departments:

The Department of Early Childhood and Childhood Education prepares candidates for initial New York State certification to teach children at the early childhood (Birth-Grade 2) and childhood (Grades 1-6) levels, including children whose primary languages and cultures are not English.

The Department of Middle and High School Education prepares candidates for initial New York State certification to teach academic and special subjects (English, science, mathematics, social studies, and foreign languages) in secondary schools, grades 7-12.

Lehman College's educator preparation programs have been accredited by the National Council for Accreditation of Teacher Education (NCATE). The Counselor Education program has been accredited by the Council for the Accreditation of Counseling and Related Education Programs (CACREP). NCATE and CACREP accredit only teacher and counselor education programs of the highest quality.

Undergraduate Teacher Certifications

Middle and High School

Students seeking the initial certificate as a middle and high school teacher of academic or special subjects will complete the major area of concentration appropriate for the particular certificate, as well as the sequence of professional courses leading to the certificate. Approved areas of concentration are as follows:

- Adolescence EDUC-English Education (English 7-12)
- Adolescence EDUC-Language Other Than English (Spanish 7-12)
- Adolescence EDUC-Mathematics 5-9 or 7-12
- Adolescence EDUC-Biology 7-12
- Adolescence EDUC-Chemistry 7-12
- Adolescence EDUC-Physics 7-12
- Adolescence EDUC-Social Studies 7-12
- Earth Science 7-12

SPECIAL SUBJECTS:

Art N-12

Health Education N-12*

Music Teacher N-12*

Additional recommended concentrations may be added after the printing of this Bulletin; students need to see an adviser in the Department of Middle and High School Education (Carman Hall, Room 29-A) to find out which additional recommended majors are available.

*These programs are discontinued and will no longer accept new candidates.

Special Studies

Lehman College is aware of the student's need for educational and individual experience. Although Lehman offers all students the education that occurs in the classroom, lecture hall, and laboratory, the College's faculty is also committed to guiding independent study by students capable of individually defining and exploring problems. Such students are given the opportunity to participate in departmental honors programs; a wide range of independent study courses, including tutorials, research, and special projects offered by each department and the interdisciplinary programs; and independent extradisciplinary studies.

Internship and Field Experience Opportunities

Lehman College recognizes the importance of work experience as a significant element of a liberal arts education. Many departments and programs in the College offer such learning experiences, usually off campus. Internships are generally carried out in conjunction with classroom learning, often involving a seminar about the fieldwork. These internships may earn college credit and provide the student with "hands-on" experience, frequently the first step toward successful entry into a career. For specific information on areas of interest, students should apply to individual departments. For general information and a list of all Lehman internships, consult the Office of Career Services, 718-960-8366 (Shuster Hall, Room 254). For general information regarding internships, student teaching, and field experience requirements in teacher education, contact the Professional Development Network Coordinator, 718-960-8004 (Carman Hall, B-33).

Study Abroad Opportunities

Lehman College encourages all students in every discipline to participate in study abroad opportunities. Students may choose to study abroad for a year or a semester. For students who prefer short-term study programs, there are numerous opportunities to study abroad during the summer or winter intersessions or during spring break.

Where can I go?

You can go anywhere! Lehman students have studied in places all over the world, including Argentina, Austria, Australia, Barbados, Brazil, Canada, Chile, China, Cuba, Dominican Republic, Ecuador, Egypt, England, France, Germany, Ghana, Guyana, Ireland, Italy, Jamaica, Japan, Korea, Malawi, Mexico, Nigeria, Puerto Rico, South Africa, South Korea, Spain, Trinidad, and Venezuela. Additional programs are constantly being developed to offer a wider geographical and content choice.

Do I need to speak another language?

Not necessarily! Short-term programs are often open to students without foreign language training. Year-long programs in countries where instruction is not in English may require some background in the relevant language.

Will studying abroad delay my graduation?

Not at all! Students that study abroad may earn part time credits (3-6 credits) or full time credits (12-18) toward their degrees, although not all study abroad programs are credit bearing. Some of our faculty-led study abroad opportunities are embedded in courses, and travel does not conflict with other courses.

How do I pay for study abroad?

Lehman students can finance their study-abroad time in several ways, which may include financial aid, loans, scholarships, and fellowships. Students may be eligible to use TAP, PELL, and loan awards to help finance their study abroad. In addition to financial aid awards, students interested in studying abroad on credit bearing programs can apply to the Chancellor's Global Scholarship, a CUNY funded scholarship that can partially fund student's program costs.

In recent years, a growing number of Lehman students have received Fulbright, Benjamin Gilman, Freeman Asia and the Chancellor's Global scholarship for their studies abroad.

For further information, visit us in the Office for Global Engagement, Carman Hall, Room 337; 718-960-8345; Email: Study Abroad

Lehman Exchange Programs

Students participating in Lehman Exchange Programs must register at the College for a minimum of twelve study-abroad credits (STABD). Credits earned abroad will be applied toward students' degrees after evaluation by the appropriate department at Lehman. Students of all departments are invited to apply. To begin the online permit process, students must visit the Office for Global Engagement.

The Lehman/Sungshin University Exchange Program is open to all CUNY students. Participants may elect to spend either one semester or one year studying at Sungshin University, a

prestigious university in Seoul, South Korea. The University offers international students courses in Korean language and culture, and also teaches more than fifty courses across many disciplines in English.

The Paris/CUNY Exchange Program offers Lehman students (undergraduate and graduate) the opportunity to study at the University of Paris for either one or two semesters. A minimum proficiency in French (equivalent to three semesters) and a B average in the major are required. Students have the opportunity to choose a college within the University of Paris based on their academic major and minor. Courses will be conducted in French.

The Lehman/Sugiyama University Exchange Program is open to all CUNY students. Participants may elect to spend one semester or two semesters studying at Sugiyama University located in Nagoya, Japan. Students can enroll for courses in Japanese Culture and Language. A minimum of intermediate proficiency in Japanese (equivalent to three semesters) is required to participate.

The Lehman/Hague University Exchange Program is open to all CUNY students. Participants may elect to spend one semester or two semesters studying at the Hague University of Applied Sciences located in Hague, The Netherlands. Students can enroll for courses in Business, Accounting, Communications, and many more. Courses will be conducted in English.

The Lehman/Nanyang Polytechnic Exchange Program is open to all CUNY students. Participants may elect to spend one semester or two semesters studying at Nanyang Polytechnic located in Singapore. Students can enroll for courses in Business, Marketing, Accounting, Communications, Sports & Exercise Science, Media and many more. Courses will be conducted in English.

For further information, visit the Center for Global Engagement, Carman Hall, Room 337; 718-960-8345; Study Abroad

Independent Extradisciplinary Studies

Independent Extradisciplinary Studies permit students to participate in reading tutorials, fieldwork (including work experience), research projects, or special projects in an area for which there is not a course in a department or interdisciplinary program.

The topic for any of these should be submitted to a faculty member likely to share an interest in it. If the faculty member accepts the topic and is convinced of the applicant's ability to pursue the proposal, the faculty member refers the student to

the Office of Academic Standards and Evaluation for application. Students must secure final approval of the proposal from the Office of Academic Standards and Evaluation prior to registration for any semester. Students who are approved for Independent Extradisciplinary Studies must register for the study on a pass/fail basis. Credits earned may not exceed fifteen per semester nor total more than thirty.

Experimental Course or Program

A Department may offer as an experiment one or more courses or a program of study that falls outside the bounds of existing courses or programs of study with the approval of the Departmental Curriculum Committee, the College's Curriculum Committee, and the College's Committee on Academic Standards and Evaluation.

Degree Requirements

The requirements for an undergraduate degree at Lehman College are those in effect during the student's first semester of matriculation, with the exception that, as of the 1996 fall semester, the number of credits required to earn a degree is 120 for all students, provided all other requirements have been satisfied.

Effective fall 2019, when the requirements of an undergraduate program change, students currently enrolled in that program may elect to change from the requirements in place when they declared that program to the new program requirements. Readmitted students must complete the program requirements in effect when they are readmitted. In exceptional circumstances, determined by departmental advisors, a readmitted student may be allowed to remain under the original program requirements. All students enrolled in fall and summer 2019 whose program underwent revision prior to fall 2019 may take advantage of this policy.

Basic Skills Proficiency

Degree seeking students enrolling at Lehman College must demonstrate readiness in reading, writing and mathematics as defined by City University of New York prior to admission to the college. Students may demonstrate proficiency prior to enrolling at Lehman College by passing the appropriate CUNY Assessment Test(s).

The CUNY Assessment Tests (CATs) and the Mathematics Placement Test are administered in the Lehman College Testing Center. For additional information about CUNY Assessments please visit the Testing Center's website at <http://www.lehman.edu/academic-testing/>.

Program in English as a Second Language

Students whose native language is not English and who have failed the CUNY Reading and/or Writing Assessment Test are administered an ESL Placement Test and placed in the ESL

sequence or referred to the CUNY Language Immersion Program (CLIP). (For a detailed description of ESL courses, see the information contained under "Academic Departments and Programs" later in this Bulletin.)

Credit Requirements

To earn a bachelor's degree at Lehman College, students must earn a minimum of 120 credits. All students must complete at least thirty credits in residence at Lehman, including at least half of the credits of their chosen major and minor (if required). Credits in residence are defined as credits earned in Lehman College course work.

Majors, Minors, and Undergraduate Certificates

Major Field Requirement

All candidates for a baccalaureate degree must select a major field of study and complete all requirements for that major.

Each department, departmental section, or interdisciplinary program at the College is responsible for determining the content and requirements of the majors it offers. The requirements for each major are listed under the alphabetical listings of departments in this Bulletin. Students must select a major by the time they have earned 60 college credits and must record their choices in the Office of the Registrar (Shuster Hall, Room 102). Students are advised to consult with prospective departments about a major as soon as possible.

Restrictions for the B.A. degree: No more than 42 credits may be required within one department. No more than 64 credits may be required as a major.

Restrictions for the B.S. and B.F.A. degrees: No more than 64 credits may be required within one department. No more than 85 credits may be required as a major.

Note: Students may take no more than 60 credits in any one department.

Double Majors

To graduate with a double major, a student must fulfill the requirements for both majors and must earn at least 24 discrete credits in each major field, i.e., none of the 24 credits applied toward one major shall be applied toward the other major.

Optional Minor (12 Credits or more credits)

Effective fall 2020, a minor, which normally consists of twelve credits of related courses beyond the 100 level in a department or approved program (including professional programs, such as teacher education), is not required for graduation (except as may be required for a specific major). Students may nonetheless declare a minor field of concentration, which will become part of their official program. Normally, at least six of the twelve credits must be

taken in 300- and 400-level courses. At least 50% of the courses taken to fulfill the requirements of a minor must be discrete, that is, at least 50% must be different from the courses used to fulfill the requirements of the student's major or other minors/certificates.

Undergraduate Certificates

Effective fall 2019, undergraduate certificate programs (not including certificates offered by Continuing Education) shall follow the policies and procedures in effect for minors.

Academic Standards

Students are expected to achieve and maintain a minimum GPA requirement during their enrollment at Lehman College. In order to remain in good academic standing, students must attain a minimum GPA of 1.5 for the first 12 attempted credits, 1.75 for the first 24 attempted credits, and a 2.0 cumulative index thereafter.

Total number of credits attempted include Lehman College Fs, FINs, Ws, WFs, WUs, Ps, NCs, Rs, WDs, WNs, or their equivalents, and all transfer credits.

Total Credits Attempted	Minimum Lehman College Cumulative Indices
0-12	1.5
>12-24	1.75
>24	2.00

Students who fail to meet the required cumulative index are automatically placed on probation warning until the end of the following spring semester. During this warning period, students maintain their academic standing with the College. Students who still do not meet the minimum requirements following the probationary warning period will be dismissed from the College. Students may appeal their dismissal to the Committee on Admission and Standing for consideration of readmission.

Dismissed students whose appeals are granted will be placed on either part-time probation (fewer than 12 credits) or full-time probation (maximum of 16 credits) for the following academic year. The designation of part-time or full-time probation, as well as the determination of allowable credit load therein, will be at the discretion of the Committee on Admission and Standing.

Students on probation are expected to regain good academic standing by the end of the academic year. Students who achieve a semester index of at least 2.3 for each semester of probation but who still do not meet the minimum retention standard by the end of the year will be permitted to extend their probationary period for the following academic year.

Students who do not meet either of the conditions stated above will be dismissed once again from the College and may choose to submit another appeal.

Graduation Requirements

To qualify for graduation with a Lehman College baccalaureate degree, students must complete the following requirements:

1. completion of at least 120 credits, including all degree requirements;
2. completion of at least 30 credits in coursework at Lehman, including at least half the number of credits in the student's major and half in the minor or half of the credits in an interdisciplinary program;
3. a minimum Lehman College cumulative index of 2.0; and
4. either a minimum grade of C or an overall index of 2.0 in all courses taken in the major and minor departments or in an interdisciplinary program.

Academic Services and Policies

Academic Information and Advisement Center

The Academic Information and Advisement Center (Shuster Hall, Room 280) is part of the Office of Academic Standards and Evaluation. This Office carries out the academic policies of the College and provides academic information for all undergraduate students on such matters as admission requirements, curriculum, academic standards, grading practices, retention and probation requirements, transfer policies, degree requirements, requirements for academic honors, graduation requirements, and general graduate school information, including special graduate fellowships, scholarships, and examinations. In addition, the Office serves as the coordinating office for academic advisement, the CUNY Baccalaureate, and study-abroad programs.

SEEK Advisement and Counseling Program

Students admitted through the SEEK Program receive academic, personal, and career counseling. The Office is located in Shuster Hall, Room 257.

Tutoring Programs

LTC: The Lehman Tutoring Center (LTC), located in the Old Gym Building, Room 205, offers students a range of activities designed to support classroom learning. Students at any skill level can participate in individual, small group, and/or workshop sessions to improve their proficiency in writing, reading, research, and particular academic subject areas. In addition, the LTC offers support to students who need to pass the CUNY entrance exams in writing and reading. Computer-assisted writing/language tutorial programs are also available.

ENGLISH AS A SECOND LANGUAGE: Tutoring in writing for all ESL students.

FRESHMAN YEAR INITIATIVE: Tutoring in writing for all Freshman Year Initiative students.

SEEK: SEEK Tutoring and Supplemental Instruction Center: Services include intensive instructional support, including tutoring, computer-assisted instruction, study skills training, and small-group course reviews. The Center is located in the Old Gym Building, Room 212.

THE MATH LABORATORY: Located in Gillet Hall, Room 222, the Math Lab offers tutoring, advisement, and support materials for math and math-related courses.

SLC: The Science Learning Center (SLC), located in Gillet Hall, Room 133, provides tutoring in the natural and computer sciences. Students meet with tutors individually and in group sessions. Software for computer-assisted learning in several subjects, such as organic chemistry and anatomy and physiology, is also available.

LIBRARY TUTORS: Available in the Library, these tutors offer help with Library resources and computers.

Office of the Registrar

ACADEMIC CALENDAR: Please visit <http://www.lehman.cuny.edu/registrar/calendars.php> for all up-to-date academic deadlines, refund percentages, and holiday closings.

AUTHENTICATION/APOSTILLE: Transcripts and/or diplomas that need to have the Apostille process and/or notary may be obtained from the Office of The Registrar – located in Shuster Hall 102. **In the event that the original diploma has been lost or destroyed, a replacement may be requested in Shuster Hall room 102, as well. An additional fee will be required for the duplicate diploma.** Transcripts and/or diplomas that have been submitted for authentication and/or notary will be available within 24 to 48 hours for pick-up from Shuster Hall room 186. There is a \$2.00 notary fee per document.

CHANGE OF NAME, ADDRESS, AND NATION ID: Students can visit Shuster Hall 102 to initiate a change of name. A change of name form must be submitted in person accompanied by appropriate **original** legal documentation (e.g. marriage license or annulment/divorce papers, court order, birth certificate and/ or Certificate of Naturalization). Photocopies will not be accepted. Change/correction of National ID must also be done in person accompanied by an **original**, signed Social Security Card or Taxpayer Identification Number (if student does not have a Social Security number). For address changes, students may submit their request in person as well as in Self Service in CUNYfirst*.

**Students will only have access to change their billing, mailing and home address types in Self Service. To change their permanent address, they must submit the request in Shuster Hall 102.*

CUNYFIRST ENROLLMENT: All active Lehman students, graduate and undergraduate, are eligible to enroll via

CUNYfirst Student Service Center. Please note, if you are unable to enroll, kindly check your Student Service Center for any holds on your record. All negative holds must be cleared before enrollment.

DECLARATION OF PLANS AND/OR SUBPLANS (Majors, Minors, Advanced Certificates, Tracks, Concentrations, and Specializations): iDeclare is the online Declaration of Academic Plan and/or Sub Plan workflow. This process allows students to initiate a request to declare or change their major and/or minor online. In addition, this process will arrange for the submitted request to be reviewed by the appropriate departmental officials for approval and processing. Click here for instructions on how to initiate an iDeclare request.

Once the request has been submitted for approval, students can login to iDeclare and click the "Status" option in the menu or check their Lehman College email for confirmation and alerts regarding their requests. **iDeclare is available to all students, except Second Degree and Graduate students.** For student pursuing their 2nd Bachelors' Degree, they will need to obtain the Second Bachelor Degree-Area of Concentration form in the Office of Academic Standards & Evaluation. The completed form must have all required signatures for processing. This form must be submitted by the term deadline (Census date) which is stated in our academic calendar. Forms submitted after the Census date will be processed for the following term.

DEGREEWORKS & TAP SUPPORT CENTER: For assistance with your degree audit (Degreeworks) and/or TAP eligibility (FACTS) please visit Shuster Hall 103.

GENERAL COURSE SCHEDULING INFORMATION: The Office of the Registrar is responsible for scheduling all classes by ensuring the timely submission of academic department course offerings on a semester basis. We ensure that all course offerings include course attributes and are posted by the first day of classes. We are also responsible for classroom and non-class event assignments. The emphasis in classroom assignment is placed first on academic classes, then on class exams and support meetings, and finally on other departmental meetings and events

GENERAL ENROLLMENT INFORMATION: For information regarding enrollment and searching for class in CUNYfirst, kindly visit our website at <http://www.lehman.edu/registrar>, or log on to CUNYfirst at <https://home.cunyfirst.cuny.edu>.

GRADUATION: Lehman College conducts one commencement annually in MAY/JUNE. A student will only be eligible to apply if they will be completing all degree requirements by the end of the term in which the application is being submitted for.

Effective fall, 2019, students are eligible for College Latin honors at graduation if they have completed at least 50 indexable credits in residence at Lehman College, with a minimum cumulative index of 3.5. (See definition of credits in residence under the heading "Credit Requirements" in the section on "Degree Requirements" in this Bulletin.) The following Latin honors may be awarded:

<i>Cum laude</i>	Index of 3.5-3.74
<i>Magna cum laude</i>	Index of 3.75-3.84
<i>Summa cum laude</i>	Index of 3.85-4.0

Second degree students are not eligible for College Latin Honors.

*If you will graduate in Absentia you must obtain permission from the Office of Academic Standards and Evaluations located in Shuster Hall 280.

NEW YORK STATE RESIDENCY: To be eligible for the tuition rate of a New York State resident, a student must have had his/her principal place of residence in the state of New York for twelve consecutive months prior to the first day of classes for the semester. Continuing students who think they may be eligible for this rate may apply in Shuster Hall 102. Entering students should go to the Office of Admissions in Shuster Hall 175.

TRANSCRIPT INFORMATION: Official transcripts can be requested online, in person, or by mail. A transcript will NOT be released if the student has any "Negative Service Indicators" (e.g. Bursar, Financial Aid, Library, etc.). Negative Service indicators MUST be cleared before a transcript is released. The regular transcript fee charged by CUNY is \$7.00 per transcript, excluding transcript requests going to other CUNY institutions. There is an additional \$2.00 processing fee when ordering transcripts online. For currently active students, unofficial transcripts can be requested in Self Service in CUNYfirst.

VA CERTIFICATION: Kindly be advised that as of the Fall 2017 term VA Certification has been moved to the Office of Veterans and Military Affairs, located in Shuster Hall 201 A/B. For further information on the certification process, kindly visit their website at <http://www.lehman.edu/veterans-affairs/index.php>

Teacher Education Services

- Teacher Education Services
- The Office of Certification (Carman Hall, Room B33) supports Lehman College students in approved education programs in applying for New York State certification.
- The Certification Officer assists in completing teacher, school leader, and school counselor certification online

applications when qualified candidates complete one of the College's registered education programs.

- The Certification Officer also maintains files of candidates who apply for New York State certification and provides information on New York State certification requirements and the New York State Teacher Certification Examinations (NYSTCE).

Applying for Student Teaching

Undergraduate students who seek New York State initial certification must successfully meet the student teaching requirement. The Director of Field Experiences and the Professional Development Network (Carman Hall, Room B-33) is responsible for school site placements and providing information and support for prospective student teachers. Student teachers must be prepared to student-teach every day for the duration of one college semester. Prospective student teachers are urged to plan their course of study so they can devote a semester exclusively to their student teaching. Student teachers should have fulfilled their other education course requirements, including content area methods courses, before applying for student teaching. Further requirements for student teachers are detailed in the respective program's course of study.

Applications must be filed the semester prior to student teaching and requires permission from the program coordinator. Application due dates are April 1 for the fall semester and November 1 for the spring semester. Any candidate found to be in violation of any of the conduct guidelines detailed in the Lehman College Student Handbook and/or the candidate's discipline-specific code of ethics, may not be recommended for the student teaching. The Lehman College Student Handbook can be found on the College website at <http://www.lehman.cuny.edu/campus-life/>. Information about student teaching is posted on the School of Education's website at lehman.edu/academics/education/.

Teacher Certification

Teacher certification is obtained through the New York State Education Department. All certification requirements are subject to change without notice. It is the responsibility of the student or graduate to consult with the Certification Officer in Carman Hall, Room B-33 to stay informed about the latest certification requirements. In addition, the New York State Education Department maintains a website of current regulations at www.highered.nysed.gov/tcert.

Examination Requirements for Initial Certification

Undergraduate candidates who seek an initial teacher certification are required to pass four tests: (a) the Academic Literacy Skills Test (ALST), (b) Teacher Performance

Assessments (TPA), (c) Educating All Students test (EAS), (d) Revised Content Specialty Test (CST). Candidates must also attend three workshops on School Violence Prevention and Child Abuse Identification, and the Dignity for All Students Act (DASA). These tests and workshops are offered by the New York State Teacher Certification Examination (NYSTCE) program.

Note: All initial certificates require completion of New York State workshops. To learn more about these workshops, visit <http://eservices.nysed.gov/teach/certhelp/CertRequirementHelp.do>

Preparation workshops are offered at Lehman College through the School of Continuing and Professional Studies (SCPS). Check in the SCPS Office located in Room 128 of Carman Hall (718-960-8666) for the dates and times of these sessions.

Bilingual Education Assessments (BEA)

The Bilingual Education Assessment (BEA) is required of candidates seeking a bilingual education extension to a certificate. Preparation guides for these examinations can be viewed or downloaded for free at www.nystce.neinc.com. The BEAs consist of both multiple-choice questions and constructed-response assignments; the BEAs include audiotaped listening and speaking components in English and in the target language, and reading and writing components in the target language.

Applying for Teacher Certification

Students who successfully complete a State-approved program in education are eligible for initial certification by the NYS Education Department. The certification process is as follows:

1. The candidate completes the State-approved program in which the requirements specified by the NYS Education Department are met.
2. The candidate files an application using his or her NYSED TEACH account.
3. In collaboration with the appropriate program coordinator, the Certification Officer reviews the transcripts and related documents to determine whether the student can be recommended for certification.
4. The Certification Officer enters an institutional recommendation for NYS certification.
5. The State Education Department issues electronic certificates online.

Academic Honors

Dean's List

At the end of each Fall and Spring semester, the Office of Undergraduate Studies publishes a list of matriculated

students who meet the qualifications for placement on the Dean's List.

Full-time students will be placed on the Dean's List each fall and spring semester in which they have earned twelve or more credits with a GPA of 3.5 or above. Part-time students will be placed on the Dean's List on each occasion in which they have completed twelve or more new credits in two consecutive semesters with a GPA of 3.5 or above. In either case, no WU or INC grades are allowed even if twelve credits are completed with a 3.5 GPA.

Presidential Scholar

This designation is bestowed upon students who have met all of the qualifications for Dean's List and have exceeded the GPA requirement for Dean's List by earning a 3.9 GPA or higher. This honor supersedes placement on the Dean's List.

Departmental Honors

Graduation with departmental honors requires that, in addition to any other departmental specification, a student achieve a cumulative index of 3.2 and an index of 3.5 in the major or in an interdisciplinary program for a minimum of 24 credits.

College Latin Honors

Effective fall, 2019, students are eligible for College Latin honors at graduation if they have completed at least 50 indexable credits in residence at Lehman College, with a minimum cumulative index of 3.5. (See definition of credits in residence under the heading "Credit Requirements" in the section on "Degree Requirements" in this Bulletin.) The following Latin honors may be awarded:

<i>Cum laude</i>	Index of 3.5-3.74
<i>Magna cum laude</i>	Index of 3.75-3.84
<i>Summa cum laude</i>	Index of 3.85-4.0

Second degree students are not eligible for College Latin Honors.

College Honors Prior to Fall 2019

Election to Honor Societies

Phi Beta Kappa

Phi Beta Kappa, the nation's oldest liberal arts honor society, founded in 1776, granted a charter that established Chi Chapter of New York at Lehman College in 1970. Membership in Phi Beta Kappa is an honor conferred by invitation in recognition of scholarly achievement in the liberal arts and sciences. Election to the Chapter is based on high scholarship in a broad liberal arts curriculum as distinct from a vocationally oriented course of study. To be eligible for election, a student must have completed a year of college-

level study in mathematics or a natural science or a semester of each, have completed two years of foreign language at the college level or its equivalent, and have a minimum 3.6 GPA with 90 credits in liberal arts courses.

Sigma Xi

Sigma Xi, the national honor society in scientific research, founded in 1886, granted a charter to establish a chapter at Lehman College on November 2, 1974. The Lehman chapter can elect to membership students who have demonstrated outstanding ability in the field of scientific research. The chapter provides an opportunity for the presentation of undergraduate and graduate student research papers, as well as for attendance at the chapter's annual dinner and scientific lecture.

Golden Key International Honor Society

Golden Key, an international academic honors organization founded in 1977, granted Lehman College a charter on May 8, 1986, with 175 initial charter members. The society is interdisciplinary, and its members are sophomores, juniors and seniors, as well as top-performing graduate students, based solely on their academic achievements that are in the top fifteen percent of their class. Part-time as well as full-time students are eligible for membership.

Other Honor Societies

The following honor societies at Lehman College encourage students to take an active interest in independent and advanced study:

Beta Beta Beta (biology), Chi Sigma Iota (counseling), Sigma Beta Delta (economics and business), Kappa Delta Pi (education), Pi Delta Phi (french), Phi Alpha Theta (history), Chi Alpha Epsilon (SEEK), The National Society of Collegiate Scholars, Sigma Theta Tau (nursing), Phi Sigma Tau (philosophy), Pi Sigma Alpha (political science), Psi Chi (psychology), Alpha Kappa Delta (sociology), Sigma Delta Pi (Spanish).

Academic Policies

Flexible Grading Policy

CR/NC Flexible Grading Policy for Fall 2020

<http://www.lehman.edu/crnepolicy/>

Special COVID-19 Flexible Grading Policy for the Spring 2020 Semester

Credit and Course Loads

In general, one credit represents 15 hours of classroom work or 30 hours of laboratory work, plus supplementary assignments, or the equivalent thereof. One credit of clinical

laboratory in the Department of Nursing represents 45 clock hours of work. Unless otherwise stated, the number of credits assigned to a course is the number counted toward a Lehman College baccalaureate degree.

ePermit: Lehman College Credit for Attendance at Other Institutions

ePermit: Lehman College Credit for Attendance at Other Institutions

The following regulations apply to Lehman College matriculants who wish to attend other colleges or universities for Lehman College credit:

Eligibility Requirements:

- First-time freshman (except those in Macaulay Honors College, CUNY BA, Lehman Scholars Program and ROTC) must have completed one semester of twelve credits at Lehman.
- A student must have a minimum cumulative GPA of at least 2.00; be pursuing a degree; have no holds on records; and, must meet residency and immunization requirements.

E-Permit CUNY:

- To be assured full transfer credit for CUNY courses, students must follow the e-permit procedures.
- Each permit request is for a single course. Thus, students need to complete a permit request for each equivalent course they would like to take at other colleges.
- An e-permit or permit does not automatically register a student for a course, nor does issuance of any permit guarantee enrollment at the HOST college. Once a student has enrolled at the HOST College, cancellation of the permit does not delete the course registration.
- If a student does not obtain permission in advance, including departmental approval for courses that have not already been evaluated, transfer credit may be withheld.
- Transcripts for CUNY e-permit courses will automatically be forwarded to the home college.

Non-CUNY Permit:

- To receive transfer credit for non-CUNY courses, students must visit the Registrar's Office and follow the procedures for a non-CUNY permit.
- If a student does not obtain permission in advance, including departmental approval, transfer credit may be withheld.
- A student is responsible for having transmitted to the College a record of all courses taken at a non-CUNY institution for Lehman credit while a matriculated student at the College.
- Grades of D earned outside the City University of New York are not transferable.

Regulations for E-Permit and Non-CUNY:

- Courses taken on permit must meet degree requirements.
- A student may not be enrolled simultaneously at Lehman College and another institution for more than the maximum number of credits under Lehman College rules.
- A student may not transfer more than 70 credits from community colleges.
- To earn a Lehman College degree, a student must complete at least 30 credits in residence at Lehman College and at least half of the credits in the major or in an interdisciplinary program, minor or certificate. (See the definition of credits in residence in the section on "Degree Requirements" in this Bulletin under the heading of "Credit Requirements.")
- With special permission, a student who has satisfied Lehman College residence requirements may attempt the final 21 credits at another accredited senior college or university, provided that all other requirements for graduation will have been satisfied. Students wishing to graduate in absentia must obtain permission from their designated academic advisement office.

ePermit Prior to Fall 2020

Excess Credit

A student with a minimum cumulative index of 3.0 who has also completed the College Writing requirement and whose previous semester grades include no INCs, Ws, WUs, Rs, or NCs, or a student who is a graduating senior, may, with the permission of the Office of Academic Standards and Evaluation (Shuster Hall, Room 280), attempt up to 21 credits. Students who meet all the requirements stated above and who have successfully completed 21 credits in a prior semester may request permission in the Office of Academic Standards and Evaluation to attempt up to 24 credits. A student who wishes to request permission to register for more than 24 credits must submit a written appeal to the Committee on Admission, Evaluation, and Academic Standards, detailing the reason for the request and a justification for each course planned in the schedule. This appeal should be submitted to the Committee through the Office of Academic Standards and Evaluation. The Committee will determine whether the appeal should be granted or denied during the late registration and drop/add period.

In no case may a student preregister for more than 18 credits. Students who register for more than 18 credits must pay the CUNY Accelerated Study Fee (see the chapter on "Tuition and Fees (p. 22)" in this Bulletin).

Full-Time and Part-Time Matriculants

Full-Time Matriculants

Courses and credit loads for full-time matriculants are as follows:

- To be a full-time student, he/she may attempt a minimum of 12 credits per semester.
- A student may attempt a maximum of 18 credits per semester.

Part-Time Matriculants

Courses and credit loads for part-time matriculants are as follows:

- In order to make progress toward the degree, a part-time matriculated student is expected to carry each semester a minimum of two courses totaling five to seven credits or one course totaling at least five (5) contact hours.
- To be a part-time student, he/she may attempt up to 11.5 credits.

Heritage and Foreign Transfer Students Policy

Foreign Language Requirement for Students with Preexisting Foreign Language Skills

In general, students who began a language in high school or elsewhere and plan to continue the study of that language must take the placement test. Students are urged to take the placement test the semester prior to starting foreign language study. The test may be taken according to the schedule posted by the Department of Languages and Literatures. Please contact the Department of Languages & Literatures (Carman Hall, Room 257, telephone 718.960.8215) to schedule your placement exam. The test may be taken only once and the result is binding. Results are generally posted within a week after taking the test.

- In general, students who have taken a language in High School will not be allowed to take the equivalent course at Lehman unless they are placed there by the Department.
- Students who have begun a language at another college will not be permitted to take an equivalent course for credit.
- Students may take equivalent foreign language courses for credit at other CUNY colleges through ePermit (Lehman ePermit, also <https://epermit.cuny.edu>) or at non-CUNY colleges (visit the Registrar's office for a non-CUNY permit).

Only students who transfer into Lehman with an associate's degree are exempt from the Foreign Language Requirement.

Spanish Heritage Speakers

Spanish heritage speakers are those who speak Spanish at home. Often this is their first language and mastery of the language in both spoken and written forms varies considerably. Spanish heritage speakers cannot take language courses in their home or native language intended for non-

heritage speakers (courses numbered 111, 112, 201, 202). Spanish heritage speakers will be placed by examination and/or interview with a Languages Department advisor. There are special courses for Spanish heritage speakers (SPA 113-SPA 114 and SPA 203-SPA 204).

Foreign Transfer Students

Foreign transfer students often enter Lehman with college credit for coursework completed in a language other than English. Foreign transfer students cannot take language courses in their home or native language (courses numbered 111, 112, 201, 202). Foreign students will be placed by examination and/or interview with a Languages Department advisor.

Foreign transfer students who have completed college coursework in a foreign language may request a waiver from taking a foreign language. If the waiver is granted, the student is required to substitute Foreign Language Option courses to complete the language requirement (click here for the Foreign Language Option courses).

Non-Degree Students

Non-degree students may take no more than the maximum credits allowed by matriculated (degree) students.

Student Classification

Group	Credits Completed
8 Graduating Senior	106-120
7 Lower Senior	91-105
6 Upper Junior	76-90
5 Lower Junior	61-75
4 Upper Sophomore	46-60
3 Lower Sophomore	31-45
2 Upper Freshman	16-30
1 Lower Freshman	0-15

Summer Session

In summer session, students may earn credit in proportion to the amount of credit they may earn in a regular semester. For example, in one six-week summer session, a student may carry no more than eight credits or two courses, whichever is higher. A student with a minimum cumulative index of 3.0 or a student who is graduating from the summer session may carry an additional three credits.

If a student attends two summer sessions, at Lehman and/or elsewhere, and there is any overlap between the two sessions, credits representing the number of weeks of overlap must be subtracted from the total number of credits allowed. Students

should consult with the Office of Academic Standards and Evaluation (Shuster Hall, Room 280).

Total Withdrawals

Students in good standing may apply for a total withdrawal from the College with the intention of applying for readmission at a later date.

Students withdrawing from the College should first consult with the Office of the Vice President of Student Affairs. If withdrawal is indicated, the student should apply in the Office of the Registrar and return all books belonging to the Library and all other materials and property to the appropriate office.

There is no category at the College entitled "leave of absence." After students have withdrawn, they may neither consider nor identify themselves as "students on leave" from the College; they may only describe themselves as "former students." Official discharge for medical reasons provides no exception to this rule.

A student whose cumulative index at the time of official discharge from the College is below the minimum required for continued matriculation shall be considered dropped for poor scholarship.

Transfer Credit

Transfer Credit

The following rules govern the evaluation of transfer credit:

- Credit is usually granted for a course from a college or university accredited by one of the following accrediting bodies if the description of that course matches that of a similar course offered by Lehman College: Middle States Association of Colleges and Schools/Commission on Higher Education; New England Association of Schools and Colleges/ Commissions on Institutions of Higher Education; North Central Association of Colleges and Schools; Northwest Association of Schools and Colleges; Southern Association of Colleges and Schools/Commission on Colleges; Western Association of Schools and Colleges/ Accrediting Commission for Community and Junior Colleges; Western Association of Schools and Colleges/ Accrediting Commission for Senior Colleges and Universities; Accrediting Commission for Community and Junior Colleges; Accreditation Commission for Education in Nursing, Commission for Nursing Accreditation Education and accreditation by the New York State Board of Regents and the Commissioner of Education of the colleges currently listed on the NYSED college accreditation site.
- Credit for a course at a postsecondary institution not accredited by one of the above-mentioned accrediting bodies, whose description matches that of a similar course

offered by Lehman College may be granted with departmental approval.

- Courses from non-accredited institutions that do not have a Lehman equivalent will not transfer.
- Courses completed outside the City University system with a grade of D or below will not be credited by Lehman College. They will be included, however, in the cumulative index to determine an applicant's eligibility for admission.
- Students must satisfy the requirement that at least 30 credits as well as at least half of the credits in the major or in an interdisciplinary program, minor or certificate be completed at Lehman College. (See the definition of credits in residence in the section on "Degree Requirements" in this Bulletin, under the heading "Credit Requirements.")

Transfer Credit Prior to Spring 2022

Transfer Credit Prior to Fall 2020

Undergraduate Certificates

Effective fall 2019, undergraduate certificate programs (not including certificates offered by Continuing Education) shall follow the policies and procedures in effect for minors.

Withdrawal from Courses

Drop/Add Period. Students may adjust their programs during the Drop/Add period at the beginning of each semester, provided there is space in a newly selected course and they maintain the minimum credit load for their status.

Withdrawals after Drop/Add. The grade of W, withdrawal without penalty, is awarded only when it is clear that a student has a good and sufficient reason for withdrawing from a course and is doing so at a time when he or she is doing passing work in the course. Applications for withdrawal are accepted through the tenth week of each semester.

Students desiring to drop a course in their major must obtain a recommendation from the chair or the adviser of the appropriate department program. No faculty member or counselor may withdraw a student from a course.

The following grades govern official and unofficial withdrawals after the Drop/Add period. The deadline dates are published each semester by the Office of Academic Standards and Evaluation.

	Grade
Official withdrawal without penalty	W
Never Attended, with penalty	WN
Unofficial withdrawal with penalty	WU

NOTE: Although W grades carry no index penalty, they are credits attempted for the purpose of measuring satisfactory academic progress.

After the tenth week of each semester, students may appeal for withdrawals to the Committee on Admission and Standing, but only for documented reasons of serious illness or serious personal emergency. Students should submit their appeals to the Office of Academic Standards and Evaluation (Shuster Hall, Room 280).

Students receiving financial aid should discuss in advance with the Office of Financial Aid the consequences of withdrawing from a course.

Credit by Examination

External Examination Programs (AP, CLEP, CPEP)

Students who have participated in any one of the three external examination programs approved by the College - the Advanced Placement Program (AP), the College Level Examination Program (CLEP), and the College Proficiency Examinations Program (CPEP) - may receive advanced placement depending on the scores achieved and criteria set by the College. Sophomore standing will be awarded to those who have earned four full Advanced Placement course credits.

Credit by Departmental Examination

All departments at Lehman College may offer credits by means of a departmental examination, provided the individual departments are convinced that the student, through previous study and/or work, is qualified to take the examination in a specific course. The department may assign either credit (representing a grade of C or better) or no credit to the examination. Students who fail this examination may not repeat it. Students requesting credit by departmental examination must pay the Qualifying Examination Fee as listed in the section on "Noninstructional Fees (p. 26)" in the chapter on "Tuition and Fees (p. 17)" in this Bulletin.

The maximum number of credits students may earn through external examinations and life-experience credit (awarded through the Adult Degree Program), exclusive of Advanced Placement examinations, is 30. (For further information, consult the Office of Academic Standards and Evaluation, Shuster Hall, Room 280.)

Graduate Courses for Undergraduate Credit

Undergraduate students with a declared major who are not registered for a dual degree program, have completed at least 90 credits with a cumulative GPA of 3.0 or above and who satisfy necessary pre-requisites may enroll in a total of twelve graduate credits during their senior year.

Graduate courses may not count towards Pathways requirements or the residency requirement for the major/minor. Graduate courses will be counted towards the calculation of Dean's List, Presidential Scholars, and departmental honors.

Grading will occur on the following system: A, A-, B+, B, B-, C+, C, and F.

Tuition will be charged in accordance with the tuition and fee manual. Full-time undergraduate students who receive permission to take graduate courses will be charged the undergraduate tuition rate for graduate courses which are applicable to the student's undergraduate degree. (within the 120 credits required for graduation). If the student is part-time, the graduate rate will be charged for graduate courses and the undergraduate rate for undergraduate courses. Students receiving financial aid in the form of grants and/or loans should confirm that the additional charges will be covered by their aid by speaking to a Financial Aid Counselor.

Students who meet the eligibility requirements must get approval from the graduate program advisor and the Office for Graduate Studies.

Audited Courses

All students, matriculant and non-degree, may audit any course other than a laboratory, provided attendance in the course does not involve the use of consumable material and/or equipment. Auditors will be charged regular tuition. Audited courses cannot be used to qualify for full-time or part-time status, financial aid, or veteran's benefits. AUD-graded courses carry no credits, but auditors must fulfill the instructor's requirements for auditors. AUD-graded courses should not be confused with courses graded "No Credit." To register as an auditor, prior written permission of the instructor and the appropriate department chair is required. No change from regular registration to auditing, nor from auditing to regular registration, will be permitted after the regular registration period has ended.

Undergraduate Grading Systems and Related Policies

Attendance

Individual instructors, as well as departments or degree programs, may establish specific attendance requirements.

Instructors have the right to weigh attendance and class participation in determining grades. It is the student's responsibility to ascertain the effect attendance may have on the grade in a course. Students receiving financial aid must be certified or attend classes regularly to continue eligibility.

Cumulative Index

A cumulative index may not be computed by averaging the semester indices. Students should check their computation against their official transcripts. Grades and Credits in the cumulative index include: All grades earned at the College, grades earned in courses taken at Lehman or CUNY (i.e. study-abroad programs, permit out). Grades and Credits to be excluded are those grades earned in any previous institution.

Departmental Grade Appeals

When a student considers a grade unjust, he/she should first confer with the instructor. **Students are required to initiate grade appeals before the end of the eighth week of a semester following the entry of a permanent grade.** If a student is not satisfied with the outcome, he/she may appeal in writing to the department chair.

1. The chair will appoint a review committee of at least two department members who, with the chair, will review the appeal. The committee will examine all materials relevant to the appeal, submitted by both the instructor and the student, and will prepare a written report of its findings, either sustaining the original grade or recommending a change.
2. The chair will notify the student, the instructor, and the Office of Academic Standards and Evaluation of the committee's decision. If the committee recommends a grade change, the chair will initiate an eGrade correction.
3. The decision of the review committee will be binding on both parties.

F Repeat Policy

When an undergraduate student receives the earned academic grade of "F" or an administrative failing grade, and the student subsequently retakes that course and receives a grade of "C-" (at the same institution) or better, the initial "F" will no longer be computed into the Grade Point Average (GPA). The "F" will remain on the transcript. The number of failing credits that can be deleted from the GPA shall be limited to 16 for the duration of the student's undergraduate enrollment in the institutions of the City University of New York. This policy shall be effective September 1, 1990, at all colleges of the City University of New York. Students replacing grades of "F" earned before September 1st, 1984, must receive the approval of the appropriate faculty committee.

- This policy is applicable only to grades of "F" and to those administrative grades that cause zero quality points to be

averaged into the calculation of the cumulative GPA: F, WU, and FIN. *As of Fall 2021, WU grades no longer carry a punitive impact on a student's GPA*

- In order for a grade of "C-" or better to replace a grade of "F" in the calculation of the cumulative GPA, repetition of the course must take place at the same college where the failing grade was originally received.
- A failing grade may not be partially deleted from the calculation of the cumulative GPA. (For example, if a student has used 14 credits of the 16-credit limit and subsequently earns a grade of "C-" or better to replace a failing grade in a 3-credit course, the original "F" grade will continue to be calculated in the cumulative GPA; however, if that student subsequently earns a grade of "C-" or better to replace a failing grade in a 2-credit course, the original "F" may be deleted from the calculation of the cumulative GPA).
- Whether a student remains at a single college or transfers from one CUNY college to another, no more than 16 credits of failing grades may be replaced in the calculation of their cumulative GPA.
- If a student has received two or more "F"s for the same course and subsequently earns a "C-" or better, the initial "F"s will, subject to the 16-credit limit, be deleted from the calculation of the cumulative GPA, and the total number of credits of "F" deleted will be charged against the 16-credit limit.
- When a student, by choice, has taken a course on a pass/fail basis and earned an "F" for that course, the student must subsequently receive a grade within the range of "C-" to "A" in order for the initial "F" to be deleted from the calculation of the cumulative GPA.
- When course numbers or titles have changed in the period between the student's earning the initial "F" and repeating the course, but the content of the course remains the same, routine campus procedures should be followed for deleting the "F" from the calculation of the cumulative GPA. When course content has changed (as indicated in the Bulletin) in the period between earning the initial "F" and repeating the course, or when students have been permitted to substitute an equivalent course for the one originally failed, the declaration of course equivalency for the purpose of deleting the "F" from the cumulative GPA will be at the discretion of the appropriate departmental or college committee.

The complete memorandum for the CUNY Uniform Grade Glossary, Policies, and Guidelines may be found here.

Final Examinations

Final examinations for the term should be given in accordance with the timetable provided by the Office of the Registrar. A make-up exam date will be scheduled every term. The instructor must report the student's final grade in the course to the Office of the Registrar no later than the date advertised in

the term Academic Calendar. Kindly visit our website at <http://www.lehman.cuny.edu/registrar/calendars.php> for all up-to-date Academic Calendars.

Grade Appeals

Students dissatisfied with a grade received in a course should first consult the instructor involved. It is the instructor's sole judgment that determines the grade recorded in the Office of the Registrar. The instructor's first judgment is always taken. Second and later judgments resulting from personal appeals and hardship claims are never honored. Occasional errors do occur, and these are always corrected promptly when properly certified by the instructor to the Office of Academic Standards and Evaluation.

Change of Grade Policy and Process

Change of Grade Policy and Process

The purpose of this policy is to establish guidelines for change of grade and associated deadline and thereby facilitating timely progress to degree completion and compliance with financial aid requirements that all courses taken contribute to degree completion. This policy is intended to reflect the University's commitment to the student success goals and the requirements of New York State's Regulations of the Commissioner of Education.

Application for a change of grade, assigned by a member of the faculty, may be made at any time within one year from the end of the semester in which the course was taken. Either the student or the instructor may make this request. The procedures outlined below applies to the change of passing letter grades, PEN, F, FIN, WU. **Grades cannot be changed once a student has graduated and their academic record is closed.**

Change of Final Grade

- Faculty members who initiate such a change must file a Change of Grade Form (paper or secure online form), including the reason for the change, follow campus changes of grade approval process, and forward the completed form to the Office of the Registrar, who will process the change and notify the student and faculty.
- **Undergraduate** grade change request over one academic year requires the approval of the Grade Appeals Committee (or campus equivalent.)
- **Graduate** change of grades over one academic year requires the approval of the Dean of Graduate Studies (or campus equivalent.)

Change of INC to Administrative FIN

- Campus Registrar assigns the grade of FIN when an INC (Incomplete) remains unresolved at the **end of the semester following the semester in which the course was taken (exclusive of Summer Term.)**

- The student or the instructor may appeal this administrative action. Graduate Students who receive an Incomplete (INC grade) must fulfill their academic obligation **within one calendar year (or earlier campus deadline)** of the end of the semester in which the grade of Incomplete is given.
- Incompletes unresolved in the above-mentioned time-period will become FIN in students' records and may not be changed thereafter.

Change of PEN to Final Letter Grade

- The "PEN" grade is a temporary grade awarded when the disposition of the final grade requires further evaluation and when the absent or incomplete grades are inappropriate. 'PEN' is also used to facilitate the implementation of the Procedures for Imposition of Sanctions whereby colleges must hold a student's grade in abeyance pending the outcome of the academic review process. Final determination of a grade will depend on final evaluation by the instructor or the outcome of the college's academic review process. PEN grade must be resolved to letter grade by the end of the semester following the semester in which the course was taken.

Student Appeal

- Students are strongly encouraged to first communicate with the professor of the course. If that conversation does not remedy the situation, or if students choose to not follow that route, then students who think that a final grade was issued erroneously may file a grade appeal. **Appeals must be filed within 30 calendar days of grade assignment in CUNYfirst.**

Faculty Appeal

- An appeal instituted by a member of the faculty to change an administrative FIN must indicate that the work required to resolve the INC grade was in the instructor's possession prior to the INC deadline date. **Appeals must be filed within 30 calendar days of FIN grade assignment in CUNYfirst.**

Grade Appeals Process

- Student or Faculty request shall be reviewed by the department grade appeals committee (or campus equivalent.) The departmental shall review the matter and make a recommendation to the faculty member within 30 calendar days.
- If the departmental grade appeals fail to make a recommendation to the faculty member within **30 calendar days**, the grade appeal will be escalated to the college-wide grade appeals committee (or campus equivalent.)
- The college-wide grade appeals committee (or campus equivalent) shall have **30 calendar days** to make a recommendation to the department and faculty member.
- The faculty member, upon receipt of the department or college-wide committee's recommendation, must render a judgment within **15 calendar days** and communicate in

writing/via online form to the Campus Registrar his or her decision to either sustain the grade or submit a grade change.

This Policy shall supersede and override all undergraduate and graduate program-level grading change policies currently in effect at CUNY colleges and schools Effective Fall 2021.

The complete memorandum for the CUNY Uniform Grade Glossary, Policies, and Guidelines may be found here.

College Now Program Grading Policy

College Now is a University wide initiative to offer college level courses to NYC's public high school students. Students take credit-bearing courses that are part of the regular curriculum at any one of the participating CUNY colleges. Since these are actual college courses a transcript can be generated for all participating students who enroll in these courses.

Currently the same letter grade system that is used on CUNY campuses is used in these courses. Upon matriculation in any of CUNY colleges other than the one sponsoring the course, the course is treated like transfer credit. The earned letter grade is not entered on the transcript at the receiving school.

If the student matriculates at the same college that sponsored their College Now course, the course appears on the transcript as a regular course with a letter grade and GPA. Because the same rules that apply to students transferring within CUNY are used for College Now students, if a student gets a passing grade in the course, the course will transfer. If, however, the student attends the college that sponsored the course, the letter grade and its corresponding GPA are calculated into the student's record. This is fine for students earning a "C" or better, but students earning a letter grade lower than a "C" start their academic career when entering college, on probation. In some cases, their financial aid may be impacted.

Effective Fall 2021, in all College Now programs the only passing grades permitted will be iterations of A through C. Lower passing grades such as C-, D+, D and D- will automatically convert to the grade of CR (credit) and the F, WD, WU, W, WN grade will convert to NC (No Credit). CR will carry academic credit and NC will not. Neither grade will impact the student's GPA. Upon matriculation, NC grades earned during College Now program, will not impact students financial aid status. This Policy shall supersede and override all College Now program-level grading policies currently in effect at CUNY colleges and schools.

The complete memorandum for the CUNY Uniform Grade Glossary, Policies, and Guidelines may be found here.

Grade Glossary

The following glossary of uniform grading symbols shall be employed according to the interpretation provided below.

Grades are assigned based on the definitions contained herein. Individual units of the University need not employ all symbols but must adhere to the following interpretation for those employed and may not use any symbol that is not included in the glossary. Quality points are to be used to calculate the grade point average (GPA) or index. A dash "--" indicates that the grade does not carry a numerical value and is not to be included in the GPA. Plus ("+") and minus ("-") grades shall be interpreted as equivalent to "+0.3" and "-0.3", except as noted.

Grade	Explanation	Quality Points
A+	Exceptional	4.00
A	Excellent	4.00
A-	Excellent	3.70
AUD	Auditor, Listener	-
B+	Good	3.30
B	Good	3.00
B-	Good	2.70
C+	Satisfactory	2.30
C	Satisfactory	2.00
C-	Satisfactory	1.70
CR	Credit Earned	-
D+	Passing	1.30
D	Passing	1.00
D-	Passing	0.70
F	Failure/Unsuccessful Completion of Course	0.00
FIN	F from incomplete. <i>To be used when INC grade lapses to an F grade</i>	0.00
H	Honor. Hunter College School of Social Work only	-
INC	Term's work incomplete (temporary grade)	-
NC	No credit granted	-
NRP	No Record of Progress. Exclusive to Dissertation Supervision at the Graduate Center Only	-
P	Pass	-
PEN	Grade pending (temporary grade)	-
R	Course must be repeated; minimum level of proficient not attained. <i>Restricted to noncredit, remedial, and to developmental courses</i>	-
S	Satisfactory	-

SP	Satisfactory progress. <i>Restricted to thesis and research courses requiring more than one semester for completion (temporary grade)</i>	-
U	Unsatisfactory	0.00
W	Withdrew. <i>Student participated in an academically related activity at least once</i>	-
WA	Administrative Withdrawal. <i>Non-punitive grade assigned to students who had registered for classes at the beginning of the term but did not provide proof of immunization by compliance date. Student participated in an academically related activity at least once</i>	-
WD	Withdrew Drop (Dropped after FA cert date during the program adjustment period. Student participated in an academically related activity at least once)	-
WN	Never participated in an academically related activity	-
WU	Withdrew Unofficially. Student participated at least once in an academically related activity	-
Y	Year or longer course of study must continue to completion (temporary grade)	-

The complete memorandum for the CUNY Uniform Grade Glossary, Policies, and Guidelines may be found [here](#).

Discontinued Grades & Grades Symbols

The following symbols have been implemented as prefixes to grades in the student system to identify repeated courses including the application of the F grade repeat policy and Board approved variance, as well as to indicate a grade's impact on GPA and credit accumulation. CUNYfirst College have retired the use of these prefixes as they went live in CUNYfirst. Converted records will continue to display with the legacy prefix designation in CUNYfirst.

Prefix Explanation

&	Repeated course which counts in the GPA but does not count in credits completed
*	Course does not count in the GPA and does not count in credits completed
#	Replacement grade, F grade policy, does not count in cumulative GPA
@	Repeat F grade policy, does not count in GPA, does count in credits completed

The following grades are no longer in use and have been removed from the legend of grade symbols. Colleges may not use any symbol which is no longer in use and therefore not included in the glossary. Values have been defined in this document for historical purposes of computation on existing transcripts.

Grade	Explanation	Quality Points	Effective Date
*	Current course registration/course in progress	-	04/1980
ABS	Absent from the final; make-up exam permitted.	-	09/2008
E	Excellent. (At LaGuardia Community College only)	4.00	09/1976
FAB	F from absent –used when the ABS grade reverts to an F grade.	0.00	09/2008
FPN	F from pending –used when the PEN grade reverts to an F grade.	0.00	09/2008
G	Good. (At LaGuardia Community College only)	3.00	09/1976
H	Honors. (Used only at Richmond College and only for students who began in Spring 1975 or earlier.)	4.00	09/1976
J	Failure for non-academic reasons.	0.00	09/1976
K	Condition course completed. (This is not a grade.)	-	09/1976
NF	Failure in a non-academic course. (At York College only)	0.00	09/1976
WF	Withdrew Failing. Student participated in an academically related activity at least once	0.00	01/2015
WP	Withdrew passing.	-	09/1976
X	Non-punitive failure	-	09/1976

Z	No grade submitted by the instructor – a temporary grade which is assigned by the registrar pending receipt of the final grade from the instructor	-	05/2018
---	--	---	---------

The complete memorandum for the CUNY Uniform Grade Glossary, Policies, and Guidelines may be found [here](#).

Incomplete Courses

For an instructor to grant an INC, the student must have met the instructor's attendance requirements in the course and have a passing semester average. The INC grade covers any failure to complete all requirements for a course, such as submitting a paper or taking a final examination. The grade of INC is awarded only when the course requirement has not been completed for good and sufficient reasons and when there is a reasonable expectation that the student can successfully complete the requirements of the course. The student must complete the missing work within the **first ten weeks of the following term** and the instructor has to the end of the term to submit the eGrade Correction. However, if the student is eligible and has applied for graduation, the eGrade Correction must be submitted prior to the term conferral date. If the instructor is not available, the student must consult with the department chair. INC grades not completed by the deadline will become a grade of "FIN."

Index Computation Formula

To learn to compute the cumulative index, assume that the accompanying table represents grades earned and proceed as follows:

1. Multiply the total number of credits for each grade by the quality points assigned to that grade and total the product obtained.
2. Total the number of credits attempted.
3. Divide the results obtained in Item One by the result obtained in Item Two. This number becomes the Lehman College cumulative index. The index must be computed to three decimal places. (See the accompanying table.)

Grade Symbols		Quality Points
A	Excellent	4.0
A-		3.7
B+		3.3
B	Good	3.0
B-		2.7
C+		2.3

C		2.0
C-		1.7
D+*	Poor	1.3
D*		1.0
F*****	Failure	0.0
P	Pass	-
NC**	No Credit	-
NP	No Pass	-
R**	Course must be repeated until minimum level of proficiency is attained	-
INC***	Incomplete	-
FIN	An incomplete that has been turned to an F	0.0
W	Withdrawal without Penalty	-
WD	Withdrawal Drop	-
WN	Never Attended	0.0
WU****	Unofficial Withdrawal	0
WF	Withdrawal with Penalty	0
AUD	Audited Course	-
Z	Registrar's grade when a grade sheet has not been submitted by the instructor	-
#	Repeat for better grade, removed from index	-
&	Repeat for better grade, remains in index	-
*	Repeat/Repeat of transfer credit/No credit when credit earned in XXX999	-

* Students, if they wish, may repeat, one time only, courses in which they have earned D grades. The D grade will stand, and the new grade will be averaged in the cumulative index, but the course will be credited only once.

**Undergraduate students may remove up to 16 credits worth of F penalty grades from their Grade Point Average by repeating the course in which the penalty grade was received and earned a grade of C- or better as long as the original penalty grade was earned in the Fall 1984 or thereafter and the course was repeated in the Fall 1990 or thereafter. The original F penalty grade remains on the transcript. If students repeat course(s) in which they have received a grade of C- or higher, the repeated course(s) will neither be credited nor counted in the students' total earned credits or cumulative indices.

*** The NC and the R are earned academic grades for courses in which the use of these grades have been approved. The NC or the R grade is given when a student has completed a course, but has not earned a minimum grade of C. In order to receive credit for a course in which an NC or an R grade has been earned, a student must retake and satisfactorily complete the course.

**** An Incomplete grade is turned to an FIN when the work has not been satisfactorily completed within the established deadline.

*****A grade of **WN** denotes that the student “NEVER ATTENDED.” The grade **WN** was issued as per “COA” (Commencement of Attendance Rosters) submitted by the faculty after the end of the third week of classes.

***** WU grades- Faculty may assign the grade of **WU** if the student attended at least once. This grade may be assigned to a student that “unofficially withdrew” (stopped attending; work performance cannot be evaluated to **EARN** a grade).

***** An F grade is a failure grade given to a student who completed the class and failed. This grade is assigned for work that in the judgment of the instructor does not deserve college credit.

Number of credits taken = 41

Division of 92.8 (sum of quality points) by 41 = 2.26 (index)

Pass/No Credit Option

Students may elect P/NC grades for a maximum of 18 credits in their degree program under the following conditions:

- The course for P/NC must be outside (a) the College degree requirements (b) the major, minor, or interdisciplinary program and the courses offered by Lehman's teacher education departments, except for those education courses that have Pass/Fail or Pass/No Credit grading basis.
- Only one P/NC course may be elected in any semester, with the exception for those courses that have a Pass/Fail or Pass/No Credit grading basis.
- The P/NC choice may not be changed after the College late registration period has ended.
- The credits taken on a P/NC grading basis may not be counted toward the major and minor.

Undergraduate and Graduate Grading Basis

GRADIN G BASIS	FORMAL DESCRIPTION	CAREE R APPLIE D	ALLOWED GRADES TO ASSIGN
		UG	GRAD

Grade	Quality Points		Credits Attempted		Quality Points
A	4.0	x	6	=	24.0
A-	3.7	x	4	=	14.8
B+	3.3	x	3	=	9.9
B	3.0	x	2	=	6.0
B-	2.7	x	5	=	13.5
C+	2.3	x	3	=	6.9
C	2.0	x	2	=	4.0
C-	1.7	x	4	=	6.8
D+	1.3	x	3	=	3.9
D	1.0	x	3	=	3.0
F, W F, or WU	0.0	x	6	=	0.0
			41		92.8

ANC	PFP Courses Graded	X		A, A-, B+, B-, C+, C-, INC, NC, WU
GRD	Undergraduate Letter Grades	X		A, A-, B+, B-, C+, C-, D+, D, F, INC, WU
GRD	Graduate Letter Grades		X	A, A-, B+, B-, C+, C, F, INC, WU
LAN	Language Grades	X		A, A-, B+, B-, C+, C, C-, INC, NC, WU
P/F	Pass/Fail Grades	X	X	F, INC, P, WU
PNP	Pass/Not Pass Grades	X		P, NP, INC, WU
PNP	Pass/Not Pass Grades		X	P, NP, INC, WU*[Assigned grades of A, A-, B+, B, B-, C+, and C will convert into a P grade]
SUS	Graduate Letter Grades (Including SP)		X	A, A-, B+, B-, C+, C, F, INC, SP, WU

GRADE	DESCRIPTION
A, A-	EXCELLENT
B+, B, B-	GOOD
C+, C, C-	SATISFACTORY
D, D+	PASSING
F	FAILURE
INC	INCOMPLETE
NC	NO CREDIT
NP	NO PASS
P	PASS
SP	SATISFACTORY PROGRESS
WD	WITHDRAWAL DROP
WN	NEVER ATTENDED
WU	WITHDREW UNOFFICIALLY

WU and F Grades Policy

A withdrawal after the financial aid certification date or program adjustment period is assigned the grade of “WD” (Dropped) or “WN” (Never Participated), or “W” (Withdrawn) or “WU” (Withdrawn Unofficially). Currently WD, W, WN are not academically punitive grade i.e., these grades do not impact student GPA. For Title IV purpose University uses our Grading policy for compliance with R2T4 regulations.

Effective Fall 2021, the WU grade will not have punitive impact on a student’s GPA. The WU grade will continue to be used to denote Unofficial Withdrawal. This Policy shall supersede and override all undergraduate and graduate program-level grading change policies currently in effect at CUNY colleges and schools.

If a student wishes to receive credit for a course in which a WU grade was received, it must be repeated with a passing grade of a C- or higher; however, the "WU" grade remains on the transcript.

A grade of "F" is a failure grade given to a student who completed the class and failed. This grade is assigned for work that in the judgment of the instructor does not deserve college credit. This grade is calculated in the GPA as zero and no credit will be earned. If a student wishes to receive credit for the course, it must be repeated with a passing grade of C- or higher; however, the "F" grade remains on the transcript.

The complete memorandum for the CUNY Uniform Grade Glossary, Policies, and Guidelines may be found [here](#).

Academic Integrity

While honest scholarship is time-consuming and often requires hard work, it is also the primary process by which students learn to think for themselves. Faculty members must teach respect for methods of inquiry within the various disciplines and make assignments that will encourage honest scholarship; students in turn must uphold a standard of honesty within the College, thereby affirming the value and integrity of their Lehman degree. The following definitions and procedures govern cases involving undergraduate student work.

Academic dishonesty is prohibited in The City University of New York. Penalties for academic dishonesty include academic sanctions, such as failing or otherwise reduced grades, and/or disciplinary sanctions, including suspension or expulsion.

Definitions and examples of academic dishonesty

Cheating is the unauthorized use or attempted use of material, information, notes, study aids, devices or communication during an academic exercise. Examples of cheating include:

- Copying from another student during an examination or allowing another to copy your work.
- Unauthorized collaboration on a take home assignment or examination.
- Using notes during a closed book examination.
- Taking an examination for another student, or asking or allowing another student to take an examination for you.
- Changing a graded exam and returning it for more credit.
- Submitting substantial portions of the same paper to more than one course without consulting with each instructor.
- Preparing answers or writing notes in a blue book (exam booklet) before an examination.
- Allowing others to research and write assigned papers or do assigned projects, including using commercial term paper services.
- Giving assistance to acts of academic misconduct/dishonesty.
- Fabricating data (in whole or in part).
- Falsifying data (in whole or in part).
- Submitting someone else's work as your own.
- Unauthorized use during an examination of any electronic devices such as cell phones, computers or other technologies to retrieve or send information.

Plagiarism is the act of presenting another person's ideas, research or writings as your own. Examples of plagiarism include:

- Copying another person's actual words or images without the use of quotation marks and footnotes attributing the words to their source.
- Presenting another person's ideas or theories in your own words without acknowledging the source.
- Failing to acknowledge collaborators on homework and laboratory assignments.
- Internet plagiarism, including submitting downloaded term papers or parts of term papers, paraphrasing or copying information from the internet without citing the source, or "cutting & pasting" from various sources without proper attribution.

Obtaining Unfair Advantage is any action taken by a student that gives that student an unfair advantage in his/her academic work over another student, or an action taken by a student through which a student attempts to gain an unfair advantage in his or her academic work over another student. Examples of obtaining unfair advantage include:

- Stealing, reproducing, circulating or otherwise gaining advance access to examination materials.
- Depriving other students of access to library materials by stealing, destroying, defacing, or concealing them.
- Retaining, using or circulating examination materials which clearly indicate that they should be returned at the end of the exam.
- Intentionally obstructing or interfering with another student's work.

Falsification of Records and Official Documents

Examples of falsification include:

- Forging signatures of authorization.
- Falsifying information on an official academic record.
- Falsifying information on an official document such as a grade report, letter of permission, drop/add form, ID card or other college document.

A faculty member who suspects that a student has committed a violation of the CUNY Academic Integrity Policy shall review with the student the facts and circumstances of the suspected violation whenever feasible.

Thereafter, a faculty member who concludes that there has been an incident of academic dishonesty sufficient to affect the student's final course grade shall report such incident on a Faculty Report Form which is attached to this Policy and shall submit the Form to the college's Academic Integrity Officer who is Mr. Conrad Walker, Director, Compliance and Operations. His office is in Shuster Hall room 204 and he can be reached at 718-960-8242, Conrad.Walker@lehman.cuny.edu.

The Academic Integrity Officer shall update the Faculty Report Form after a suspected incident has been resolved to

reflect that resolution. Unless the resolution exonerates the student, as described in Section 4.4, the Academic Integrity Officer shall place the Form in a confidential academic integrity file created for each student alleged to have violated the Academic Integrity Policy and shall retain each Form for the purposes of identifying repeat offenders, gathering data, and assessing and reviewing policies. Unless the student is exonerated, written decisions on academic integrity matters after adjudication also shall be placed in the student's academic integrity file. The Academic Integrity Officer shall be responsible for maintaining students' academic integrity files.

Procedures for Imposition of Sanctions

Determination on academic vs. disciplinary sanction

The Academic Integrity Officer shall determine whether to seek a disciplinary sanction in addition to an academic sanction. In making this determination, the Academic Integrity Officer shall consult with the faculty member who initiated the case and may consult with student affairs and/or academic affairs administrators as needed. Before determining which sanction(s) to seek, the Academic Integrity Officer also shall consult the student's confidential academic integrity file, if any, to determine whether the student has been found to have previously committed a violation of the Academic Integrity Policy, the nature of the infraction, and the sanction imposed or action taken. Prior violations include both violations at the student's current college and violations that occurred at any other CUNY college. In making the determination on prior violations, the Academic Integrity Officer shall determine whether the student previously attended any other CUNY colleges and, if so, shall request and be given access to the academic integrity files, if any, at such other CUNY colleges.

The Academic Integrity Officer should seek disciplinary sanctions only if (i) there is a substantial violation; or (ii) the student has previously violated the Policy; or (iii) academic sanctions are unable to be imposed because the student has timely withdrawn from the applicable course. Examples of substantial violations include but are not limited to forging a grade form or a transcript; stealing an examination from a professor or a university office; having a substitute take an examination or taking an examination for someone else; having someone else write a paper for the student or writing a paper for another student; sabotaging another student's work through actions that prevent or impede the other student from successfully completing an assignment; and violations committed by a graduate or professional student or a student who will seek professional licensure. The college also should consider any mitigating circumstances in making this determination.

Procedures in Cases Involving Only Academic Sanctions

Student Admits to the Academic Dishonesty and Does Not Contest the Academic Sanction

If a faculty member wishes to seek only an academic sanction (i.e., a reduced grade) and the student does not contest either his/her guilt or the particular reduced grade the faculty member has chosen, then the student shall be given the reduced grade, unless the Academic Integrity Officer decides to seek a disciplinary sanction. The reduced grade may apply to the particular assignment as to which the violation occurred or to the course grade, at the faculty member's discretion. A reduced grade may be an "F" or another grade that is lower than the grade that the student would have earned but for the violation.

The faculty member shall inform the Academic Integrity Officer of the resolution via email and the Officer shall update the applicable Faculty Report Form to reflect that resolution.

Student Admits to the Academic Dishonesty but Contests the Academic Sanction

In a case where a student admits to the alleged academic dishonesty but contests the particular academic sanction imposed, the student may appeal the academic sanction through the college's grade appeal process. The student shall be allowed, at a minimum, an opportunity to present a written position with supporting evidence. The committee reviewing the appeal shall issue a written decision explaining the justification for the academic sanction imposed.

Student Denies the Academic Dishonesty

In a case where a student denies the academic dishonesty, a fact-finding determination shall be made, by the Student-Faculty Disciplinary Committee established under Article XV of the CUNY Bylaws. The Student-Faculty Disciplinary Committee shall issue written decisions and send copies of their decisions to the college's Academic Integrity Officer. The Academic Integrity Officer may not serve on a college's Academic Integrity Committee.

Procedures in Cases Involving Disciplinary Sanctions

If the college decides to seek a disciplinary sanction, the case shall be processed under Article XV of the CUNY Bylaws. If the case is not resolved through mediation under Article XV, it shall be heard by the college's Faculty-Student Disciplinary Committee.

If the college seeks to have both a disciplinary and an academic sanction imposed, the college shall proceed first with the disciplinary proceeding and await its outcome before addressing the academic sanction. The student's grade shall be held in abeyance by using the PEN grade established for this purpose, pending the Committee's action. If the Faculty-

Student Disciplinary Committee finds that the alleged violation occurred, then the faculty member may reflect that finding in the student's grade. The student may appeal the finding in accordance with Article XV procedures and/or may appeal the grade imposed by the faculty member in accordance with section 4.2.2. If the Faculty-Student Disciplinary Committee finds that the alleged violation did not occur, then no sanction of any kind may be imposed.

Where a matter proceeds to the Faculty-Student Disciplinary Committee, the Academic Integrity Officer shall promptly report its resolution to the faculty member and file a record of the resolution in the student's confidential academic integrity file, unless, as explained below, the suspected violation was held to be unfounded.

Required Action in Cases of No Violation

If the Faculty-Student Disciplinary Committee finds that no violation occurred, the Academic Integrity Officer shall remove all material relating to that incident from the student's confidential academic integrity file and destroy the material.

Faculty Report Form

It is necessary to complete the following form to report an incident of suspected and/or resolved academic dishonesty: https://lehman-cuny-advocate.symplicity.com/public_report/index.php/pid718553?rep_type=1001. You should also make a copy for your records and submit your report to the Dean of Students, Dr. Conrad Walker. Dr. Walker can also be reached in Shuster Hall 204, email: conrad.walker@lehman.cuny.edu, ph: 718.960.8242.

Academic Standards

Students are expected to achieve and maintain a minimum GPA requirement during their enrollment at Lehman College. In order to remain in good academic standing, students must attain a minimum GPA of 1.5 for the first 12 attempted credits, 1.75 for the first 24 attempted credits, and a 2.0 cumulative index thereafter.

Total number of credits attempted include Lehman College Fs, FINs, Ws, WFs, WUs, Ps, NCs, Rs, WDs, WNs, or their equivalents, and all transfer credits.

Total Credits Attempted	Minimum Lehman College Cumulative Indices
0-12	1.5
>12-24	1.75
>24	2.00

Students who fail to meet the required cumulative index are automatically placed on probation warning until the end of the following spring semester. During this warning period,

students maintain their academic standing with the College. Students who still do not meet the minimum requirements following the probationary warning period will be dismissed from the College. Students may appeal their dismissal to the Committee on Admission and Standing for consideration of readmission.

Dismissed students whose appeals are granted will be placed on either part-time probation (fewer than 12 credits) or full-time probation (maximum of 16 credits) for the following academic year. The designation of part-time or full-time probation, as well as the determination of allowable credit load therein, will be at the discretion of the Committee on Admission and Standing.

Students on probation are expected to regain good academic standing by the end of the academic year. Students who achieve a semester index of at least 2.3 for each semester of probation but who still do not meet the minimum retention standard by the end of the year will be permitted to extend their probationary period for the following academic year.

Students who do not meet either of the conditions stated above will be dismissed once again from the College and may choose to submit another appeal.

The Fresh Start Program

The Fresh Start Program offers eligible students seeking readmission to Lehman College the opportunity to return to the College and begin their GPA anew. Under the Fresh Start Program, students whose cumulative GPA does not meet Lehman College's academic standard and who earned no more than 45 indexable credits during their initial enrollment at the College will have none of their previous Lehman College coursework counted toward the computation of their grade point average.

Eligibility:

The following reinstated students may qualify for the Lehman College Fresh Start Program:

- Students who have either completed an associate's degree and have earned a minimum GPA of 2.75 or have earned 45 credits at an accredited institution following their initial enrollment at the College with a minimum GPA of 2.75;
- Students who have not attended a college or university for 5 or more years.

Terms of the program:

- Upon acceptance of an appeal for readmission, students who meet the above criteria will be invited to apply to the program by the Committee on Admission and Standing.

- Admission to the program is at the discretion of the Committee. Decisions are final and may not be appealed.
- Upon acceptance to the Fresh Start Program all previously earned grades will be removed from the calculation of the index but will remain visible on the transcript. A notation will indicate students' enrollment in the Fresh Start Program.
- Students accepted to the program must adhere to a Fresh Start Program Contract which requires regular meetings with an assigned academic advisor as well as the utilization of campus support services.
- Fresh Start Program participants must comply with all residency requirements for the College following their acceptance to the program, which stipulate the completion of at least 30 credits of coursework at Lehman, including at least half the number of credits in the student's major and half in the minor or half of the credits in an interdisciplinary program.
- Students who fail to meet the academic standards of the College following their acceptance to the program will be subject to the policies governing dismissal as outlined in the College Bulletin.
- The Fresh Start Program may be implemented only once during a student's academic career at Lehman.
- Credits earned prior to the Fresh Start Program will be treated as transfer credits. As such, all grades removed from the index under the Fresh Start Program guidelines will not be used in the calculation of any indices.

Graduation Requirements

To qualify for graduation with a Lehman College baccalaureate degree, students must complete the following requirements:

1. completion of at least 120 credits, including all degree requirements;
2. completion of at least 30 credits in coursework at Lehman, including at least half the number of credits in the student's major and half in the minor or half of the credits in an interdisciplinary program;
3. a minimum Lehman College cumulative index of 2.0; and
4. either a minimum grade of C or an overall index of 2.0 in all courses taken in the major and minor departments or in an interdisciplinary program.

Academic Departments and Programs

Course Offerings, Levels, and Codes

Jointly Offered Courses

Some courses are offered by two or more departments or programs. Before signing up for these courses, students should determine carefully the department or program under which they wish to register. The course code may not be changed after the student has registered for the semester.

Number Code: Course Level and Category

The three-digit number assigned to each course indicates the level and in some instances the type of course. For example: BIO 166 is intended for beginning students in biology, while BIO 490 is an advanced course limited to upper-class majors in biology. The meanings of the numbers are as follows:

Alpha Code Subject Matter

Undergraduate Lehman College courses are identified by a three-letter abbreviation (Alpha Code) followed by a three-digit number. The letters indicate the subject area of the course. For example: ANT 171 is a course in human evolution offered by the Department of Anthropology, while ENW 309 is a writing course offered by the Department of English. The meanings of the Alpha Codes are listed at the end of this chapter.

Course Levels

Remedial and Developmental Courses (001-089)

Students are directed to these courses as the result of skills assessment examinations. Hours and credits are not assigned in the same way as for other courses. Remedial Courses are non-credit courses with precollege content. Developmental Courses have in part college-level and in part precollege-level (remedial) work. They carry college credits only for the portion of the course that is college-level. The Remedial and Developmental courses are graded A, B, C, R, or NC. Students who receive a second grade of R in any remedial or developmental course may be dropped from the College.

Compensatory Courses (090-110)

All courses numbered 090-099 and some courses numbered 100-110 carry more hours than credits for purposes of skills development. These courses are college-level courses offering

credits equivalent to that of regular college courses without extended classroom hours. (Compensatory courses numbered below 100 are graded A, B, C, NC, or R. They may be repeated until a grade of C is achieved. They do not count for distribution credit.)

Introductory Courses (100-199)

Intermediate Courses (200-299)

Advanced Courses (300-499)

The prerequisite for courses numbered 300-399 is the satisfactory completion of at least 30 college credits, unless otherwise specified.

The prerequisite for courses numbered 400-499 is the satisfactory completion of at least 60 college credits, unless otherwise specified.

NOTE: These course prerequisites are not repeated with every course description under "Course Offerings, Levels, and Codes;" however, the student is responsible for knowing about them and meeting them. This responsibility holds for all the information on course prerequisites presented in this section.

Course Categories

Skill and Performance Courses (100-110, 200-210)

Basic skills courses include beginning foreign language courses, freshman composition, and basic performance courses, such as chorus, basic design, and keyboarding. In general, these courses may not satisfy Distribution requirements.

Fieldwork, Internship, Work Experience (270-280, 370-380, 470-479)

Fieldwork places a student in an organized work setting outside the college classroom. Examples of such work settings include government agencies, business offices, social agencies, industrial establishments, and educational or health care institutions. The amount of time spent and the amount of credit earned may vary, but no more than 30 credits may be earned in courses for which the last two digits are 70-80. The number 480 is reserved for previous life experience in the Adult Degree Program.

Courses numbered 370-379 are open only to students who have satisfactorily completed at least 45 credits. Courses numbered 470-480 are for majors who have satisfactorily completed a total of 75 credits toward the degree, including at least 12 credits in the discipline or related areas.

Courses for which the Topic May Vary from Semester to Semester (150-165, 250-265, 350-365, 450-465)

Seminars or courses entitled "Topics in" exemplify courses of this type. These courses may be re-elected for a stated maximum number of credits (usually 6) when the topic changes.

Courses numbered 150-165 are intended for beginning students.

Courses numbered 350-365 are open only to students who have satisfactorily completed at least 45 credits, except with permission of the appropriate department chair or program coordinator.

Courses numbered 450-465 are for students majoring in that subject area who have satisfactorily completed a total of 75 credits toward the degree, including at least 12 credits in that discipline or related areas.

List of Alpha Codes

Subject Area	Code
Accounting (see Economics)	
AFRICANA STUDIES	AAS
Swahili	SWA
Yoruba	YOR
AMERICAN STUDIES (Interdisciplinary)	AMS
Anthropology	ANT
ART	
Art History	ARH
Computer Graphic Imaging	CGI
Studio Art	ART
BIOLOGICAL SCIENCES	BIO
Botany	BBG
Chemistry	CHE
CITY AND THE HUMANITIES	HUM
Comparative Literature (Interdepartmental)	CLT
COMPUTER SCIENCE	CMP
Computer Information Systems	CIS
Cooperative Education Program	CED

Dance (see Music, Multimedia, Theatre, and Dance)	
Disability Studies	DST
ECONOMICS and BUSINESS	
Accounting	ACC
Business Administration	BBA
Economics	ECO
EDUCATION	
Childhood Education	DEC
Counseling, Leadership, Literacy, and Special Education	ESS
Early Childhood Education	ECE
Family and Consumer Studies	FCS
Middle and High School Education	ESC
Special Education	EDS
ENGLISH	ENG
Creative & Professional Writing	ENW
English as a Second Language	ESL
EARTH, ENVIRONMENTAL, AND GEOSPATIAL SCIENCES	
Environmental Science	ENV
Geography-Human	GEH
Geography-Physical	GEP
Geology	GEO
ENGLISH AS A SECOND LANGUAGE (see English)	
FRESHMAN YEAR INITIATIVE	FYI
GENERAL EDUCATION	LEH
HEALTH SCIENCES	HSD
Dietetics, Foods, & Nutrition	DFN
Exercise Science	EXS
Health Education and Promotion	HEA
Health Services Administration	HSA
Public Health	PHE
Recreation Education	REC
Rehabilitation	REH
HISTORY	
Asia, Latin America, Russia, and Non-Western Civilizations	HIW
Ancient Greece, Rome, Near East, and Ancient and Medieval Civilizations	HIA

Modern Europe	HIE	LINGUISTICS (Interdisciplinary)	LNG
Special & Comparative Historical Topics	HIS	MACAULAY HONORS COLLEGE	MHC
United States	HIU	Mathematics	MAT
Human Rights and Peace Studies	HRP	Middle Eastern Studies	MES
HUMANITIES	HUM	MUSIC, MULTIMEDIA, THEATRE, AND DANCE	
INDIVIDUALIZED BACCALAUREATE PROGRAMS (IBAP & ADP)	IBA	Dance	DNC
ITALIAN-AMERICAN STUDIES	IAS	Music History	MSH
JOURNALISM AND MEDIA STUDIES		Music Performance	MSP
Film and TV Studies	FTS	Music Theory	MST
Journalism	JRN	Theatre	THE
Media Communications Studies	MCS	NURSING	NUR/HIN
LANGUAGES AND LITERATURES		PHILOSOPHY	PHI
Arabic	ARB	PHYSICS & ASTRONOMY	
Classical Culture	ACU	Astronomy	AST
Chinese	CHI	Physics	PHY
Classics	CLA	POLITICAL SCIENCE	POL
French	FRE	Special Studies	SPS
German	GER	PSYCHOLOGY	PSY
Greek	GRK	SOCIOLOGY	SOC
Hebrew	HEB	SOCIAL WORK	SWK
Hebrew Culture	HCU	SPEECH-LANGUAGE-HEARING SCIENCES	
Irish	IRI	Communication Arts	SPE
Italian	ITA	Speech Pathology and Audiology	SPV
Japanese	JAL	Theatre (See Music, Multimedia, Theatre, and Dance)	
Japanese Culture	JCU	URBAN STUDIES (Interdisciplinary)	URB
Latin	LAT	WOMEN'S STUDIES (Interdisciplinary)	WST
Mixtec	MIX	WORLD CLASSICS	
Portuguese	POR	(Interdisciplinary & Interdepartmental)	IDW
Russian	RUS		
Slavic	SLA		
Spanish	SPA		
World Classics	IDW		
World Foreign Languages	WFL		
Yiddish	YDH		
LATIN AMERICAN & LATINO STUDIES			
Latin American and Caribbean Studies	LAC		
Latino Studies	LTS		
LEHMAN SCHOLARS PROGRAM	LSP		

Courses that Involve a One-to-One Faculty/Student Relationship

(281-296, 381-396, 481-496)

Tutorials: (281-284, 381-384, 481-484)

Independent Study: (285-288, 385-388, 485-488)

Research: (289-292, 389-392, 489-492)

Special Projects: (293-296, 393-396, 493-496)

These courses provide an opportunity for independent study in every department. Students who wish to undertake independent study should consult an adviser from the

department or interdisciplinary program encompassing the student's area of interest. Such consultation is essential before registering for one of these courses because plans have to be developed by the faculty member and the student. The first digit indicates the level of experience that a student should have before taking the course.

Courses numbered 381-396 are open to students who have satisfactorily completed at least 60 credits or have permission of the department chair.

Courses numbered 481-496 are for students majoring in that subject area who have satisfactorily completed a total of 75 credits toward their degree, including at least 12 credits in that discipline or related areas.

Prerequisites

A prerequisite course is one that must be satisfactorily completed before a more advanced course is taken. The following are not satisfactory grades for prerequisite courses: F, NC, INC, PEN, R, W, WU, WF, AUD. Students who receive an INC in a prerequisite must complete it within TWO WEEKS of the following semester if they wish to remain in the more advanced course. For example, PSY 166 is the prerequisite for all 200-level psychology courses.

Corequisites

A corequisite course is one that must be taken in the same semester as its related course. For example, CHE 114 (lecture) and CHE 115 (lab) are corequisite courses.

Adult Degree Program (ADP)

Dean of The School of Continuing and Professional Studies:
Dr. Jane Mackillop

Director, Adult Degree Program: Pamela S. Hinden, LMSW

The Adult Degree Program (ADP)

The Adult Degree Program (ADP) is designed for Lehman students who are 25 years old or older. ADP provides academic and student services designed especially for returning adult students. More information and applications are available on the program website: www.lehman.edu/adult.

Eligibility

Students, age 25 and over, both freshman and transfer, may apply for admission to Lehman College directly through the Adult Degree Program. Students who have been admitted to the College through main admissions, or are readmitting to the College after a significant absence, may also be considered for admission to ADP. Currently enrolled students who have completed more than two semesters, and those who have already earned a Bachelor's degree, are not eligible for admission to ADP. Eligibility is determined via an application

process that includes consideration of prior academic history, length of time out of school, work history, and a written essay.

Degree Requirements

Adult Degree Program students must successfully complete all CUNY and Lehman requirements including the Pathways General Education Common Core. ADP has its own Integration Requirements which can be used to fulfill the College Option requirements. ADP students must complete a major and meet the minimum overall and major grade point average (GPA) required for graduation by the College.

Adult Degree Program IBA Courses

IBA courses are designed to introduce ADP students to various aspects of a liberal arts education. IBA courses are open only to ADP students, by permission. A list of these courses can be found on the program website: www.lehman.edu/adult. Students may take up to 12 credits of 100 and 200 level IBA courses.

Major

ADP students may choose to complete any Lehman College major as described in the Undergraduate Bulletin (e.g., History, Biology, Business, Nursing, etc.). Alternatively, ADP students may opt to complete the requirements for the major in Liberal and Interdisciplinary Studies. See Bachelor (B.A. or B.S.) Degree in Liberal and Interdisciplinary Studies for more information.

Individualized Study Programs Prior to Spring 2021

Bachelor (B.A. or B.S.) Degree in Liberal and Interdisciplinary Studies

The Bachelor of Arts or Sciences (B.A. or B.S.) in Liberal and Interdisciplinary Studies (BLIS) allows ADP students to create an interdisciplinary focus that follows their own academic goals. The credit range, 30-36, is to ensure that students are able to include any prerequisite courses needed for their studies. The B.A. will require that 90 of the 120 credits earned will be designated as liberal arts. The B.S. will require that 60 of the 120 credits earned will be designated as liberal arts. More information is available on the program website: www.lehman.edu/adult.

Eligibility:

All ADP students are eligible.

Requirements:

The Liberal and Interdisciplinary Studies major requires a minimum of 30-36 credits, of which 18 must be at the 300 level or higher.

There are two required courses for all BLIS majors:

- IBA 301 (3 credits), Introduction to Interdisciplinary Studies: intended to be completed during the first semester of participation in the major but after the student has completed a minimum of 24 overall credits.
- IBA 482 (3 credits), Capstone Seminar: to be completed after the student has earned at least 27 credits in the major courses.

The remaining 24-30 credits of the major are chosen by the student as part of a proposal developed during IBA 301, in consultation with ADP faculty/advisors. The proposal must reflect a minimum of two or more disciplines and will be approved by the ADP Advisory Board or by faculty/advisors from the primary disciplines.

Africana Studies

Department Chair: Bertrade Ngo-Ngijol Banoum (Carman Hall, Room 287)

Department Faculty: Professor: Mark Christian; Associate Professor: Bertrade Ngo-Ngijol Banoum, LaRose Parris, Anne Rice; Assistant Professors: Gary Ford, Mary Phillips

Africana Studies is a body of knowledge that records, describes, and analyzes the experience of people of African descent in all parts of the world, but especially in Africa, the Caribbean, and the Americas. Africana Studies appraises the past, examines the present, and seeks to shape the future.

Career Preparation: Department prepares students to have transferable skills that can suit teaching, social work, nursing, local government, and other potential professions.

Africana Studies, B.A. (36 Credit Major)

The required courses and credits are distributed as follows:

Credits (36)

21 credits in required courses as follows:

AAS 166	Introduction to African and African American Studies	3
AAS 232	African Civilizations	3
	Or	
AAS 248	African History	3
AAS 235/AAS 235/LAC 235	Caribbean Societies	3
AAS 241/AAS 241/LAC 241	Literature of the English & Francophone Caribbean	3
	Or	

AAS 242	African Literature	3
	Or	
AAS 267	African-American Literature	3
AAS 245	History of African Americans	3
AAS 330/AAS 330/HIU 330	The Civil Rights Movement	3
	Or	
AAS 342/AAS 342/POL 342	African-Americans in the Political System	3
	And	
AAS 390	Research Methods	3
	Or	
AAS 470	Fieldwork in the African American Community	3

*NOTE: Students in the Early Childhood and Childhood teaching certification sequence may substitute the courses in the ECCE certification, ECE 480 and ECE 483, which are student teaching and the accompanying seminar (6 credits) for AAS 470: Fieldwork in the African American Community.

15 credits in elective AAS courses at the 300 or 400 level

Departmental Honors

Students who wish to qualify for Departmental honors are required to take AAS 481: Honors Project.

Satisfaction of the College Foreign Language Requirement

The College requirement in foreign language may be satisfied by earning 10 credits in either Swahili or Yoruba.

Teacher Certification

Students interested in obtaining New York State teacher certification should consult the Office of the Dean of Education (Carman Hall, Room B-33, 718-960-4972).

Women's Studies Options

See the description of this program contained later in this Bulletin.

Africana Studies Minor

Requirements

15 credits distributed as follows:

AAS 166	Introduction to African and African American Studies	3
---------	--	---

12 in elective AAS courses:

AAS	AAS courses at the 200 level or above	6
AAS	AAS courses at the 300 or 400 level	6

African and African American Sequences

Foundation Course

AAS 166	Introduction to African and African American Studies	3
---------	--	---

African Sequence

AAS 232	African Civilizations	3
AAS 240/AAS 240/WST 240	Women in African Society	3
AAS 248	African History	3
AAS 269/AAS 269/PHI 269	Introduction to African Philosophy	3
AAS 303	Globalization and Africa	3
AAS 304	Societies and Cultures of Africa	3
AAS 305/AAS 305/PHI 305	African Philosophical Thought	3
AAS 320	Ancient Egypt (KMT)	3
AAS 322	The City in Africa	3
AAS 323/AAS 323/HIW 323	History of Africa to 1800	3
AAS 326	Africa in Cinema	3
AAS 327/AAS 327/HIW 327	History of Africa 1800 to the Present	3
AAS 351/HIS 351/AAS 351/HIW 351	Topics in African History, Politics, and Society	3
AAS 451	Seminar in African History, Politics, and Society	3
AAS 475	Fieldwork in Africa	3

African American Sequence

AAS 228/WST 228/AAS 228	African American Families	3
AAS 239	Black Women in American Society	3
AAS 245	History of African Americans	3
AAS 268	The Economics of Poverty	3
AAS 311	Black Nationalism	3
AAS 312	African American Religious Movements in the United States	3
AAS 313	The African-American Economy	3
AAS 317	African Americans and the Law	3
AAS 324	History of African American Education	3
AAS 330/AAS 330/HIU 330	The Civil Rights Movement	3

AAS 332/MCS 332/AAS 332	African American Media	3
AAS 338/AAS 338/PHI 338/SOC 338	Race and Ethnicity in Society	3
AAS 340/AAS 340/HIU 340/WST 340	History of African American Women	3
AAS 342/AAS 342/POL 342	African-Americans in the Political System	3
AAS 352	Topics in African American History and Culture	3

(Maximum of 9. May be repeated twice with change of topic).

Caribbean Sequence

AAS 235/AAS 235/LAC 235	Caribbean Societies	3
AAS 335/AAS 335/LAC 335	The Caribbean in World Politics	3
AAS 353/AAS 353/HIW 353	Topics in Caribbean History, Politics, and Society	3

Community and Urban Sequence

AAS 225	The Contemporary Urban Community	3
AAS 226	Community Organization	3
AAS 316	Introduction to Community Development and Planning	3
AAS 470	Fieldwork in the African American Community	3

Literature and the Arts

AAS 212	African Art	3
AAS 213	African American Art	3
AAS 238/THE 238/AAS 238	African American Theatre	3
AAS 241/AAS 241/LAC 241	Literature of the English & Francophone Caribbean	3
AAS 242	African Literature	3
AAS 266	Contemporary Black Music	3
AAS 267	African-American Literature	3
AAS 334	Music of the Caribbean	3
AAS 343	African American Women Writers	3
AAS 344/AAS 344/WST 344/ENG 344	African Women Writers	3
AAS 345	African American Poetry	3
AAS 346	African American Autobiography	3

AAS 348	Literatures of Africa and the African Diaspora	3
AAS 349	The Harlem Renaissance	3
Languages		
AAS 339	African Languages	3
Swahili Language and Literature		
SWA 101	Elementary Swahili I	4
SWA 102	Elementary Swahili II	5
SWA 201	Intermediate Swahili I	3
SWA 202	Intermediate Swahili II	3
SWA 345	Swahili Literature I	3
SWA 346	Swahili Literature II	3
Yoruba Language and Literature		
YOR 101	Elementary Yoruba I	4
YOR 102	Elementary Yoruba II	5
YOR 201	Intermediate Yoruba	3
YOR 345	Yoruba Oral Literature	3
YOR 346	Modern Yoruba Literature	3

Aging

Coordinators: Justine McGovern (Social Work); Katherine Burt (Health Sciences/Nutrition)

Steering Committee: Mary Boylan (Speech-Language-Hearing Sciences); Catherine Cassidy (Social Work); Stephen Cavallo (Speech-Language-Hearing Sciences); Danna Ethan (Health Sciences); Alan Kluger (Psychology); Madeline Moran (Sociology)

Aging (Interdisciplinary Minor)

The Interdisciplinary Minor in Aging will engage students from all Departments across different Schools within the College in a common goal of scholarship in the area of aging; it will also prepare students interested in working professionally in the field of aging. A range of relevant courses representing the College's broad curricular offerings will be available to students to provide an understanding of aging from various perspectives. The Minor will be of interest to students who are majoring in several departments in the Natural and Social Sciences, including but not limited to Anthropology, Biology, Economics, Health Sciences, Nursing, Psychology, Social Work, and Sociology, as well as to students majoring in such Arts and Sciences disciplines as Art, History, Literature, Music, and Speech-Language-Hearing Sciences.

Degree Requirements

Students will complete four courses (12 credits) at the 200- and 300-level. At least six credits must be taken in 300-level courses or a higher-level course approved by the Program. No more than 6 credits may be taken in any one department.

Students will select in consultation with their advisor from the following menu of relevant 3-credit courses offered in various departments in the Schools of Natural and Social Sciences and Health Sciences, Human Services, and Nursing:

200-level courses:

PSY 219	Psychology of Adulthood and Aging	3
SOC 243	The Aged in Modern Society	3
SWK 242	Social Work Practice with Older Adults	3

Any relevant 200-level course approved by the Program.

300-level courses or a higher-level course approved by the Program:

HEA 310	Health and Aging	3
HEA 336	Perspectives on Death and Dying	3
PSY 366	Clinical Neuropsychology	3
SOC 343	Sociological Theories of Aging	3
SPV 300	Neurolinguistics of Aging	3
SWK 342	Social Work Policies in an Aging Society	3

Any relevant 300-level course or higher course approved by the Program.

Anthropology

Department Chair: Ryan Raaum (Davis Hall, Room 427)

Deputy Chair: Christa Salamandra (Davis Hall, Room 429)

Undergraduate Adviser: Ryan Raaum (Davis Hall, Room 427)

Department Faculty and Staff: Emeritus: Richard Blot; Professors: Eric Delson, Christa Salamandra, Victoria Sanford; Associate Professors: William E.H. Harcourt-Smith, Cameron L. McNeil, Ryan Raaum, Stephanie Rupp; Assistant Professor: Anthony Dest, Victoria M. Dominguez; Distinguished Lecturer: Rima Brusi; Chief College Laboratory Technician: Salah Noueihed

The discipline of Anthropology utilizes a four-field approach to the study of human beings in the world. Archaeology traces cultural evolution of past human societies from their beginnings to the development of complex societies. Linguistics explores languages cross-culturally, including topics such as language structure and sociocultural dimensions of language use. Cultural Anthropology focuses on cultural variation and social structure around the world in the realm of law, politics, media, magic, art, religion, science and technology. Physical anthropology includes the study of humans and their primate relatives in terms of evolution, biology, and behavior as well as Forensic Anthropology and Genetics. The Department offers a major in anthropology; an interdisciplinary major in anthropology (physical), biology,

and chemistry; and a 12-credit minor in Anthropology and the inter-disciplinary Human Rights and Peace Studies program.

Curriculum at a Glance

Introductory Courses

Foundation Courses for the Major:

ANT 171	Introduction to Human Evolution	4
ANT 211	Cultural Anthropology	3
ANT 212	Ancient Peoples and Cultures	3
ANT 269	Introduction to Human Variation	4

Other Introductory Courses:

ANT 142	Images of Culture	3
ANT 206/ANT 206/WST 206	Anthropological Perspectives on Women and Men	3
ANT 210/ANT 210/LAC 210/WST 210	Women in Latin America	3
ANT 228/ANT 228/LNG 228	Language and Culture	3

Ethnography of Selected Areas:

ANT 230	Selected Studies in Societies and Cultures (Africa)	3
ANT 231/MES 231/ANT 231	Selected Studies in Societies and Cultures: Middle East	3
ANT 232	Selected Studies in Societies and Cultures (Europe)	3
ANT 233	Selected Studies in Societies and Cultures (India)	3
ANT 234	Selected Studies in Societies and Cultures (Oceania)	3
ANT 235	Selected Studies in Societies and Cultures (Native North America)	3
ANT 236	Selected Studies in Societies and Cultures (Southeast Asia)	3
ANT 237	Selected Studies in Societies and Cultures (East Asia)	3
LAC 238/LAC 238/ANT 238	Selected Studies in Societies and Cultures (Latin America)	3

Selected Studies in Societies and Cultures:

ANT 230	Selected Studies in Societies and Cultures (Africa)	3
ANT 231/MES 231/ANT 231	Selected Studies in Societies and Cultures: Middle East	3
ANT 232	Selected Studies in Societies and Cultures (Europe)	3
ANT 233	Selected Studies in Societies and Cultures (India)	3
ANT 234	Selected Studies in Societies and Cultures (Oceania)	3
ANT 235	Selected Studies in Societies	3

	and Cultures (Native North America)	
ANT 236	Selected Studies in Societies and Cultures (Southeast Asia)	3
ANT 237	Selected Studies in Societies and Cultures (East Asia)	3
LAC 238/LAC 238/ANT 238	Selected Studies in Societies and Cultures (Latin America)	3

ANT 230, ANT 232, ANT 234: Are not expected to be offered in 2015-2017

Field I: Physical Anthropology:

ANT 300	Human Variation	3
ANT 301	Human Origins	3
ANT 302	Primate Behavior and Ecology	3
ANT 303	Human Osteology	4.5
ANT 305	Forensic Anthropology	3
ANT 306	Survey of Forensic Science	3
ANT 307	The Anthropology of Growth	3
ANT 309	Human Genetics	3
ANT 310	Evolution of the Primates	3

Field II: Archaeology:

ANT 240	Emergence of Ancient Civilizations	3
ANT 370/ANT 271/ANT 370	Excavation of the Lehman College Site	4
ANT 311	The Archaeology of Europe	3
ANT 312	African Archaeology	3
ANT 313	Archaeology of Asia	3
ANT 314	Archaeology of the Near East	3
ANT 316	Early Societies and Cultures of North America	3
ANT 317/ANT 317/LAC 317	Early Civilization of South America and the Caribbean	3
ANT 318/ANT 318/LAC 318	Early Civilizations of Mexico and Central America	3
ANT 319	The Archaeology of South-Western North America	3
ANT 331	Prehistoric and Contemporary Subsistence Systems	3
ANT 371	Field and Laboratory Research in Archaeology	4

ANT 311, ANT 312, ANT 316, ANT 319: Are not expected to be offered in 2015-2017

Field III: Anthropological Linguistics:

ANT 326/ANT 326/LNG 326	Anthropological Linguistics	3
ANT 327	Field Techniques in Anthropological Linguistics	2

ANT 327: Are not expected to be offered in 2015-2017

Field IV: Cultural Anthropology and Ethnology:

ANT 250/ANT 250/IAS 250/SOC 250	The Italian-American Community	3	ANT 324	Paleoanthropology Anthropology & the Museum	3
ANT 330	Dynamics of Culture Change in a Global Context	3	ANT 325	Method and Theory in Archaeology	3
ANT 331	Prehistoric and Contemporary Subsistence Systems	3	ANT 320, ANT 321, ANT 322, ANT 325: Are not expected to be offered in 2015-2017		
ANT 332	Kinship, Marriage, and the Family	3	Anthropology Courses and Seminars with Variable Topics:		
ANT 334	Mind and Culture	3	ANT 360	Humans and the Environment	3 (May be repeated for a maximum of 6.)
ANT 335	Folklore and Oral Traditions	3	ANT 450	Seminar in Selected Problems of Cultural Anthropology	3 (maximum 6).
ANT 336	Music and Culture	3	ANT 451	Seminar in Selected Problems of Archaeology	3 (maximum 6).
ANT 337	Inequality in Cross-Cultural Perspective	3	ANT 452	Advanced Seminar in Anthropology	3
ANT 338	Religion: An Anthropological Perspective	3	ANT 454	Seminar in Selected Problems of Physical Anthropology	3 (maximum 6).
ANT 339	Anthropology of Complex Societies	3	Supervised Independent Study:		
ANT 340	Anthropology and Education	3	ANT 489	Independent Research in Anthropology	2-3 per semester (maximum 6).
ANT 341	Medical Anthropology	3	Anthropology, B.A. (34-35 Credit Major)		
ANT 342	Anthropology of Cities	3	The required courses and credits are distributed as follows:		
ANT 343	Economic Anthropology	3	17 credits required of all majors:		
ANT 344	The Anthropology of Politics and Law	3	ANT 171	Introduction to Human Evolution	4
ANT 345	Seminar in Field Methods	3 (May be repeated for a maximum of 6.)	ANT 211	Cultural Anthropology	3
ANT 346/ANT 346/ARH 346	North American Indian Art	3	ANT 212	Ancient Peoples and Cultures	3
ANT 347/ANT 347/LAC 347	Race and Ethnicity in Latin America and the Caribbean	3	ANT 269	Introduction to Human Variation	4
ANT 348	The Ecology and Politics of Hunger	4	ANT 228/ANT 228/LNG 228	Language and Culture	3
ANT 356	Advanced Ethnology	3 (maximum 9).	Or		
ANT 337: Are not expected to be offered in 2015-2017			ANT 326/ANT 326/LNG 326	Anthropological Linguistics	3
Anthropological Methods and Theory:			Additional Courses:		
ANT 320	Anthropological Theory and Method I	3	One course in Cultural Anthropology, Ethnology, or Ethnography		
ANT 321	Anthropological Theory and Method II	3	One course in Archaeology		
ANT 322	Analyzing Anthropological Data Quantitatively	3			
ANT 323	Methods and Philosophies in	3			

One advanced seminar/research course 2-3

Advanced seminar/research course: Course numbered above 449, 2-3 credits.

9 credits in other courses in Anthropology:

Selected by the student, in at least one of which the student must elect to complete a significant writing component (approximately 15 pages minimum) in consultation with the instructor, and then confirm the details with the Department Adviser or Chair.

Anthropology (Physical), Biology, and Chemistry, B.S. (60-Credit Major)

For a description of this program, view the Anthropology/Biology/ Chemistry (p. 73) section of this Bulletin.

Anthropology Minor

The minor in Anthropology requires 12 ANT credits beyond the 100 level, of which at least 6 credits must be at or above the 300 level.

Anthropology / Biology / Chemistry

Program Coordinator: Ryan Raaum (Davis Hall, Room 427)

Co-Director: Eric Delson

Cooperating Departments: Anthropology; Biological Sciences; Chemistry; Earth, Environmental, and Geospatial Sciences; History; Mathematics and Computer Science; Philosophy; Physics and Astronomy; and Psychology.

Anthropology (Physical), Biology, and Chemistry is an interdisciplinary major leading to the B.S. degree. The program serves several purposes: (1) to prepare students for specialization at the graduate level in one of several fields: human origins, human genetics, human growth, human adaptation, primatology, forensic anthropology, or criminalistics; (2) to prepare students for secondary-school teaching in the life sciences, with emphasis on human origins and biological variation in human groups; and (3) to prepare premedical and pre dental students.

Interdepartmental Concentration in Anthropology, Biology, and Chemistry, B.S. (60-68 Credit Major)

The required credits are divided into tracks:

Track I for specializations in Biological Anthropology (such as Human Origins, Human Genetics, Human Growth, Human Adaptation, and Forensic Anthropology).

Track II for specialization in Criminalistics and for students interested in health-professional careers (these

students are advised to visit the pre-health office before choosing their electives); students in this track may take any three courses from MAT 175-MAT 176 (Calculus I and II) and PHY 166-PHY 167 (General Physics I and II) as elective credits within the major. (See elective credits below.)

A. Track I (60-63 credits)

Credits to be taken by all majors in Track I for specialization in Biological Anthropology:

28-43 credits in required courses as follows:

8 credits in biology:

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4

8 credits in biological anthropology:

ANT 171	Introduction to Human Evolution	4
ANT 269	Introduction to Human Variation	4

9 credits in chemistry:

CHE 114	Essentials of General Chemistry Lecture	3
CHE 115	Essentials of General Chemistry Laboratory	1.5
CHE 120	Essentials of Organic Chemistry Lecture I	3
CHE 121	Essentials of Organic Chemistry Laboratory II	1.5

3-4 credits in quantitative methods:

ANT 322	Analyzing Anthropological Data Quantitatively	3
	Or	
MAT 132	Introduction to Statistics	4

0-14 credits in enhanced scientific and analytic competency:

Up to 14 credits from the following list:

CMP 167	Programming Methods I	3
CMP 168	Programming Methods II	4
MAT 128	Foundations of Data Science	3
MAT 172	Precalculus	4
PHY 166	General Physics I	5
PHY 167	General Physics II	5

Elective credits (17-35)

To total at least 60-63 when added to the number of required credits taken. Students interested in Forensic Anthropology should include ANT 303 (Human Osteology, 4.5 credits, 6 hours). Any course in the list that follows may be taken for elective credit.

B. Track II (65-68 credits)

Credits to be taken by all majors in Track II for specializations in Criminalistics and for students interested in health-professional careers.

46-47 credits in required courses as follows:

8 credits in biology:

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4

8 credits in biological anthropology:

ANT 171	Introduction to Human Evolution	4
ANT 269	Introduction to Human Variation	4

23 credits in chemistry:

CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
CHE 232	Organic Chemistry Lecture I	4
CHE 233	Organic Chemistry Laboratory I	2
CHE 234	Organic Chemistry Lecture II	4
CHE 235	Organic Chemistry Laboratory II	2

7-8 credits in quantitative methods:

MAT 172	Precalculus And Either	4
ANT 322	Analyzing Anthropological Data Quantitatively Or	3
MAT 132	Introduction to Statistics	4

MAT 172: pre-requisite for CHE 166.

MAT 172: may also be satisfied by either successful completion of MAT 108 and MAT 171 or placement into MAT 175 by the Department of Mathematics.

Elective credits (18-22)

To total at least 65-68 when added to the number of required credits taken. Any course in the list that follows may be taken for elective credit. Those interested in Criminalistics should consider extra Chemistry courses. As noted above, students in this track only may also include MAT 175-MAT 176 (Calculus I and II) and PHY 166-PHY 167 (General Physics I and II) as elective credits within the major.

Courses Acceptable for Elective Credit:

ANT 206/ANT 206/WST 206	Anthropological Perspectives on Women and Men	3
ANT 211	Cultural Anthropology	3

ANT 212	Ancient Peoples and Cultures	3
ANT 300	Human Variation	3
ANT 301	Human Origins	3
ANT 302	Primate Behavior and Ecology	3
ANT 303	Human Osteology	4.5
ANT 305	Forensic Anthropology	3
ANT 306	Survey of Forensic Science	3
ANT 307	The Anthropology of Growth	3
ANT 309	Human Genetics	3
ANT 310	Evolution of the Primates	3
ANT 323	Methods and Philosophies in Paleoanthropology	3
ANT 332	Kinship, Marriage, and the Family	3
ANT 334	Mind and Culture	3
ANT 341	Medical Anthropology	3
ANT 360	Humans and the Environment	3 (May be repeated for a maximum of 6.)
ANT 370/ANT 271/ANT 370	Excavation of the Lehman College Site	4
ANT 371	Field and Laboratory Research in Archaeology	4
ANT 489	Independent Research in Anthropology	2-3 per semester (maximum 6).
BIO 181	Anatomy and Physiology I	4
BIO 182	Anatomy and Physiology II	4
BIO 183	Human Biology	4
BIO 184	Plants and People	4
BIO 226	Human Physiology	3.5
BIO 227	Mammalian Histology	4
BIO 228	Mammalian Physiology	4
BIO 230	Microbiology	4
BIO 238	Genetics	4
BIO 241	Evolution, Species, and Biogeography	3
BIO 267	Comparative Anatomy of Vertebrates	4
BIO 268	Vertebrate Embryology	4
BIO 302/BIO 302/GEP 302	Biogeography	4
BIO 331	Experimental Microbiology	4
BIO 333	Endocrine Physiology	4
BIO 339	Ecology	4
BIO 400	Biological Chemistry	4

BIO 401	Biological Systematics	4
BIO 432	Biological Fine Structure	3
BIO 433/BIO 433	Techniques in Electron Microscopy	3
CHE 232	Organic Chemistry Lecture I	4
CHE 233	Organic Chemistry Laboratory I	2
CHE 234	Organic Chemistry Lecture II	4
CHE 235	Organic Chemistry Laboratory II	2
CHE 244	Introduction to Biochemistry	3
CHE 245	Biochemistry Laboratory	1.5
CHE 249	Quantitative Analysis	5
CHE 332/CHE 332/CHE 342	Introductory Physical Chemistry I	3
CHE 334	Introductory Physical Chemistry II	3
CHE 335	Introductory Physical Chemistry of Biosystems Laboratory	3
CHE 444	Biochemistry I	4
CHE 446	Biochemistry II	3
GEH 320	Population Geography	3
GEH 335	Problems in Human Ecology	3
GEO 167	Earth Evolution	3
GEO 242	Introductory Paleontology	4
GEO 303	Stratigraphy and Sedimentology	4
GEO 342	Micropaleontology	4
GEP 204	Basic Mapping: Applications and Analysis	3
GEP 205	Principles of Geographic Information Science	3
GEP 321	Introduction to Remote Sensing	4
PSY 166	General Psychology	3
PSY 217	Child Psychology	3
PSY 248	Introduction to Primate Behavior Studies	3
PSY 310	Psychology of Learning	3
PSY 316	Physiological Psychology	3
PSY 318	Comparative Psychology and Ethology	3

Art

Chair: Terry Towery (Fine Arts, Room 014)

Department Faculty and Staff: Professors: Herbert Broderick; Associate Professors: Melissa Brown, Gina Dominique Hersey, Sharon Jordan, Sean McCarthy, Charles Seplowin, Dannielle Tegeder, Terry Towery; Assistant Professors: Jonathan Ehrenberg, David Schwittek; Lecturers: Paul Carrellas, Janet Skolnik; Chief College Laboratory Technician: John Belardo; College Lab Technician: Nicole Barreras

The Department of Art conducts courses in Studio Art (code ART), Art History (code ARH) and Computer Graphics and Imaging. The Department offers a Bachelor of Arts (B.A.) in Art degree, a Bachelor of Fine Arts (B.F.A.) in Art degree, and a Bachelor of Science (B.S.) in Computer Graphics and Imaging degree. Students in the B.A. program may major in either Studio Art or Art History.

Career Opportunities: The majors in studio art and art history help students prepare for exciting futures in any number of art-related careers—digital imaging, arts management (galleries and museums), teaching, art law, museum education, and photojournalism, to name only a few. Studio Art and Art History majors are encouraged to explore these areas through internships offered by the College. See, for example, HUM 470 (Humanities Internship, 5 credits) later on in this Bulletin.

Art, B.F.A. (60 Credit Major)

The B.F.A. program is open to students who wish to pursue an intensive program in studio art. Upon declaring the major, students are required to schedule a meeting with the BFA Program Coordinator for advising.

Credits (60)

18 credits in Foundation requirement consisting of:

ART 100	Basic Drawing	3
ART 101	Introduction to Two-Dimensional Design	3
ART 102	Introduction to Three-Dimensional Design	3
ART 108	Introduction to Photography	3
ART 112	Introduction to Digital Imaging	3
ARH 167	Tradition and Innovation in the Art of the West	3

9 credits in General Art History requirement consisting of:

Three Art History courses

Three Art History courses, at least one of which must be at the 100 level.

ARH 167: Cannot be counted toward this requirement.

9 credits in General Studio work to be selected from:

ART	100-, 200-, or 300-level ART courses
-----	--------------------------------------

15 credits in Art Specialization:

A sequence of 200-, 300-, and 400-level courses (ART (CGI) 451, ART (CGI) 480, ART (CGI) 481, ART 486, ART 487 may be counted in this category, pending approval by faculty in area of specialization) in one of the following disciplines: animation, ceramics, computer imaging, design, drawing, painting, photography, printmaking, or sculpture. Students should consult the Department for specific courses that constitute a sequence.

The printmaking course ART 313 The Artist's Multiple may be counted as a specialization course in all of these specializations: computer imaging, design, drawing, painting, photography and printmaking.

3 credits Practicum:

ART 488	Professional Practices in the Visual Arts	3
---------	---	---

6 credits Thesis:

ART 494	Bachelor of Fine Arts Thesis I	3
ART 496	Bachelor of Fine Arts Thesis II	3

Art BFA Prior to Spring 2022

Art BFA Prior to Spring 2021

Art BFA Prior to Fall 2019

Art, B.A. with a Specialization in Studio Art (42 Credit Major)

The required credits are distributed as follows:

Credits (42):

15 credits in Foundation requirement consisting of:

ART 100	Basic Drawing	3
ART 101	Introduction to Two-Dimensional Design	3
ART 102	Introduction to Three-Dimensional Design	3
ART 112	Introduction to Digital Imaging	3
ARH 167	Tradition and Innovation in the Art of the West	3

6 credits in General Art History requirement:

Selected from 300-level ARH courses, or one ARH 300-level course and one course selected from:

ARH 135	Introduction to the History of Asian Art-Islamic, Buddhist, and Hindu Cultures	3
ARH 137	Introduction to the History of the Arts of Africa, the Americas, and the South Pacific	3
ARH 139	Introduction to the History of European Art from Antiquity	3

ARH 141	through the Eighteenth Century Introduction to the History of Modern Art of the 19th & 20th Centuries in Europe & the US	3
ARH 143/ARH 143/LAC 143	Introduction to the History of Latin American Art	3

9 credits in General studio work selected from:

ART	100-, 200-, or 300-level ART courses	
-----	--------------------------------------	--

ART 486: May be counted in this category.

12 credits in Art specialization:

A sequence of 200- and 300-level courses in one of the following disciplines:

animation, ceramics, computer imaging, design, drawing, painting, photography, printmaking, and sculptures.

Art BA with a Specialization in Studio Art Prior to Spring 2022

Studio Art Minor (12-18 credits)

Pre-Requisite to the minor* (3 - 6 credits):

Many 200-level ART courses require one or two 100-level ART courses as pre-requisites

Twelve credits in ART courses at the 200-level or above.

*Students who complete the appropriate 100-level ART pre-requisites before declaring the minor must complete only the remaining 12 credits.

Computer Graphics and Imaging, B.S. (58 Credit Major)

Effective: Fall 2019. Students whose major declaration for this program is effective beginning in the Fall of 2019 or thereafter must follow these requirements. Students whose declarations were for previous semesters follow the requirements that were in effect at the time of declaration. See link below for the most recent Computer Graphics and Imaging, B.S. requirements prior to Fall 2019. Please refer to DegreeWorks or consult an advisor to review your requirements and track your progress.

The required credits are distributed as follows:

18 credits in Art:

ART 100	Basic Drawing	3
ART 101	Introduction to Two-Dimensional Design	3
ART 102	Introduction to Three-Dimensional Design	3
	Or	

ART 106	Introduction to Sculpture	3
ART 108	Introduction to Photography	3
ART 112	Introduction to Digital Imaging	3
ARH 167	Tradition and Innovation in the Art of the West	3
	Or	
ARH 141	Introduction to the History of Modern Art of the 19th & 20th Centuries in Europe & the US	3

24 credits in ART/CGI:

(May be taken as CGI or ART)

ART 221/ART 221/CGI 221	Applied Imaging and Applications to the World Wide Web I	3
ART 222/ART 222/CGI 222	Introduction to Animation	3
ART 321/ART 321/CGI 321	Computer Modeling and Design I	3
ART 322/ART 322/CGI 322	Computer Modeling and Design II	3
ART 325/ART 325/CGI 325	Digital Multimedia	3
ART 421/ART 421/CGI 421	Computer Animation I	3
ART 422/ART 422/CGI 422	Computer Animation II	3
ART 441/ART 441/CGI 441	Broadcast Design	3
	Or	
ART 480/ART 480/CGI 480	Senior Project	3
	Or	
ART 487	Professional Experience in the Fine Arts	3
		(maximum 6).

11 credits in Computer Science:

CMP 167	Programming Methods I	3
CMP 168	Programming Methods II	4
CMP 342	Internet Programming	4

5 credits in Mathematics:

MAT 155	Calculus I Laboratory	1
MAT 175	Calculus I	4

Computer Graphics and Imaging BS Prior to Fall 2019

Computer Graphics and Imaging Minor (12 credits)

The minor consists of any 12 credits chosen from the CGI courses. CMP 342 can be substituted for one of these courses.

Art History, B.A. (30 Credit Major)

The required courses and credits are distributed as follows:

Credits (30)

6 credits in Foundation requirement:

Selected from

ARH 135	Introduction to the History of Asian Art-Islamic, Buddhist, and Hindu Cultures	3
ARH 137	Introduction to the History of the Arts of Africa, the Americas, and the South Pacific	3
ARH 139	Introduction to the History of European Art from Antiquity through the Eighteenth Century	3
ARH 141	Introduction to the History of Modern Art of the 19th & 20th Centuries in Europe & the US	3
ARH 167	Tradition and Innovation in the Art of the West	3

12 credits in General requirement:

Selected from ARH 100- and 300-level courses.

9 credits in 300-Level Art History requirement:

Selected from ARH 300-level courses.

3 credits in Advanced Work:

Selected from one of the following three options:

ARH 451	Seminar	3
		(maximum 9).
ARH 477	Internship in Art History	3
ARH 489	Research in Art History	3
		(maximum 9).

Preparation for Teaching

This Major provides a thorough liberal arts course of study for students with an Education Minor seeking to apply for certification as an ECCE (Early Childhood and Childhood teacher).

Preparation for Teaching Art

There is no certification for teaching art at the early childhood/elementary level. Students who wish to teach studio art must select the Art Teacher program offered by the Department of Middle and High School Education, which leads to certification from kindergarten through the twelfth grade. See the section on Program Requirements for Undergraduate Secondary Teacher Education of Middle and High School Education in this Bulletin.

Art History Minor (12-15 credits)

Pre-Requisites to the minor* (3 credits):

One 100-level ARH Course

Twelve credits in ARH courses at the 300-level or above.

*Several 100-level ARH courses can be used to satisfy General Education requirements. Students who complete a 100-level ARH course before declaring the minor must complete only the remaining 12 credits.

Biological Sciences

Department Chair: Haiping Cheng (Science Hall, Room 3408)

Undergraduate Adviser: Maryam Bamshad-Alavi,

Email: bio.majoradvisor@lehman.cuny.edu

Department Faculty and Staff: Professors: Maryam Bamshad-Alavi, Haiping Cheng, Edward J. Kennelly, Dwight T. Kincaid, Martin Muntzel, Joseph W. Rachlin, Stephen Redenti, Eleanore T. Wurtzel, Zhi-Liang Zheng; Associate Professors: Renuka Sankaran, Moira Sauane; Assistant Professors: Gabriel O. Aisemberg, Julio Gallego-Delgado; Lecturers: Ayanna Alexander-Street; Jack Henning, Rena Quinlan; Chief Technical College Laboratory Technician: Hunki Paek; Senior College Laboratory Technicians: Christine Delevan, James Lee, Christina West; College Laboratory Technician: Kasielis Molina-Velez

The undergraduate curricula of the Department of Biological Sciences are designed to provide potential biologists with a solid background based on the substantial new information comprising modern Biology and to meet the needs of students with different career goals and scientific interests. The Department offers students the opportunity to earn the Bachelor of Science degree in Biology or the Bachelor of Arts degree in Biology for school teachers. Students have the opportunity to pursue either a four-year BS or a five-year BS-MS dual degree.

Career Preparation: Careers arising from an undergraduate major in Biology include research in one of its areas: medicine, veterinary medicine, dentistry, pharmacy, and work in the paramedical professions, as well as opportunities in public health, forestry, agriculture, fisheries, biotechnology, and conservation. Prospective middle and high school biology teachers should consult the adviser in either the Department of Biological Sciences or the Department of Middle and High School Education. Students preparing for elementary teaching should consult the Department of Early Childhood and Childhood Education.

Graduate Study: Students who plan to attend graduate school should consult the Departmental adviser early in their college careers. They should examine the Lehman College Graduate

Bulletin and the bulletins of various graduate schools for specific entrance requirements. A reading knowledge of foreign languages is sometimes required. In special cases, graduating seniors meeting the prerequisites may be permitted to offer credit from graduate courses listed in the College's Graduate Bulletin toward their undergraduate degrees.

Biology, B.S. (39-78 Credit Major)

The required courses and credits are distributed as follows:

Prerequisites * (34-38 credits):

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4
CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
PHY 166	General Physics I	5
PHY 167	General Physics II	5
MAT 175	Calculus I	4
MAT 155	Calculus I Laboratory	1

*BIO 166 and BIO 167 can be used to fulfill General Education requirements. Both are prerequisites to all other Biology courses.

MAT 175: Depending on Mathematics placement, students may need to complete the pre-requisite MAT 172, 4 credits.

Students who complete any or all of the pre-requisite courses before declaring the major may complete the major in less than 77 credits.

Foundation (Required) Courses (19 credits):

Biology (7 credits):

BIO 238	Genetics	4
BIO 240	Biostatistics	3

Organic Chemistry (12 credits):

CHE 232	Organic Chemistry Lecture I	4
CHE 233	Organic Chemistry Laboratory I	2
CHE 234	Organic Chemistry Lecture II	4
CHE 235	Organic Chemistry Laboratory II	2

At least 20-21 credits in one of the following tracks:

Biomedical Sciences at least 21 credits

Select courses from Lists: A, B, and C

At least 12 credits from List A:

BIO 228	Mammalian Physiology	4
BIO 267	Comparative Anatomy of Vertebrates	4

BIO 331	Experimental Microbiology	4	BIO 312	Parasitology Laboratory	2
BIO 333	Endocrine Physiology	4	BIO 320	Neural Development: From Genes and Cells to Brains	3
BIO 350	Introduction to Immunology	4	BIO 321	Neural Development Laboratory	2
BIO 400	Biological Chemistry	4	BIO 330/BIO 330/BIO 340	Plant Physiology	4
BIO 410	Cell Physiology and Biochemistry	4	BIO 336	Marine Biology Lectures	3
BIO 411	Principles of Virology	2	BIO 338	Genetics of Man	4
BIO 415	Medical Microbiology	4	BIO 339	Ecology	4
BIO 420	Molecular Biology	4	BIO 340/BIO 330/BIO 340	Human Body and Brain	3
At least 8 credits from List B:					
BIO 241	Evolution, Species, and Biogeography	3	BIO 341	Human Body and Brain Laboratory	2
BIO 268	Vertebrate Embryology	4	BIO 401	Biological Systematics	4
BIO 311	Parasitology	3	BIO 406	Biochemistry of Differentiation	3
BIO 312	Parasitology Laboratory	2	BIO 431	Comparative Animal Physiology	4
BIO 320	Neural Development: From Genes and Cells to Brains	3	BIO 435	Neurophysiology	3
BIO 321	Neural Development Laboratory	2	BIO 438	Genomics and Human Health	4
BIO 330/BIO 330/BIO 340	Plant Physiology	4	BIO 465	Microbial Physiology and Genetics	4
BIO 336	Marine Biology Lectures	3	At least 8 credits from List B:		
BIO 338	Genetics of Man	4	BIO 228	Mammalian Physiology	4
BIO 339	Ecology	4	BIO 267	Comparative Anatomy of Vertebrates	4
BIO 340/BIO 330/BIO 340	Human Body and Brain	3	BIO 331	Experimental Microbiology	4
BIO 341	Human Body and Brain Laboratory	2	BIO 333	Endocrine Physiology	4
BIO 401	Biological Systematics	4	BIO 350	Introduction to Immunology	4
BIO 406	Biochemistry of Differentiation	3	BIO 400	Biological Chemistry	4
BIO 431	Comparative Animal Physiology	4	BIO 410	Cell Physiology and Biochemistry	4
BIO 435	Neurophysiology	3	BIO 411	Principles of Virology	2
BIO 438	Genomics and Human Health	4	BIO 415	Medical Microbiology	4
BIO 465	Microbial Physiology and Genetics	4	BIO 420	Molecular Biology	4
At least 1 credit from List C:					
BIO 440	Biology Journal Review	2	BIO 440	Biology Journal Review	2
BIO 450	Biology Seminar	1	BIO 450	Biology Seminar	1
BIO 489	Introduction to Experimental Biology	1 (may be repeated for a maximum 3).	BIO 489	Introduction to Experimental Biology	1 (may be repeated for a maximum 3).
BIO 490	Honors in Biological Sciences	3	BIO 490	Honors in Biological Sciences	3

Organismic Sciences at least 21 credits

Select courses from Lists A, B, and C

At least 12 credits from List A:

BIO 241	Evolution, Species, and Biogeography	3
BIO 268	Vertebrate Embryology	4
BIO 311	Parasitology	3

Brain Sciences at least 20 credits

Select courses from Lists A, B, and C

At least 13 credits from List A:

BIO 228	Mammalian Physiology	4
BIO 320	Neural Development: From Genes and Cells to Brains	3
BIO 321	Neural Development Laboratory	2
BIO 340/BIO	Human Body and Brain	3

330/BIO 340			maximum
BIO 341	Human Body and Brain Laboratory	2	3).
BIO 435	Neurophysiology	3	BIO 490 Honors in Biological Sciences 3

At least 1 credit from List B:

BIO 440	Biology Journal Review	2
BIO 450	Biology Seminar	1
BIO 489	Introduction to Experimental Biology	1 (may be repeated for a maximum 3).
BIO 490	Honors in Biological Sciences	3

6-9 credits from List C:

PSY 166	General Psychology	3
PSY 308	Motivation and Emotion	3
PSY 310	Psychology of Learning	3
PSY 312	Psychology of Memory	3
PSY 314	Cognitive Psychology	3
PSY 317	Psychology of Sensation and Perception	3
PSY 366	Clinical Neuropsychology	3

PSY 166 can be used to fulfill General Education requirements and is a prerequisite to all other PSY courses. Students who complete PSY 166 before declaring the major only need to complete 6 credits in this area.

Bioenvironmental Sciences at least 21 credits

Select courses from Lists: A, B, and C or D

At least 14 credits from List A:

BIO 241	Evolution, Species, and Biogeography	3
BIO 246	Growth and Development of Higher Plants	4
BIO 270	Invertebrate Zoology	3
BIO 271	Invertebrate Zoology Laboratory	2
BIO 330/BIO 330/BIO 340	Plant Physiology	4
BIO 331	Experimental Microbiology	4
BIO 336	Marine Biology Lectures	3
BIO 339	Ecology	4
BIO 400	Biological Chemistry	4
BIO 420	Molecular Biology	4

At least 1 credits from List B:

BIO 440	Biology Journal Review	2
BIO 450	Biology Seminar	1
BIO 489	Introduction to Experimental Biology	1 (may be repeated for a

Either at least 6 credits in Geospatial Sciences from List C:

GEP 204	Basic Mapping: Applications and Analysis	3
	Or	
GEO 101	Dynamic Earth	3
	Or	
GEH 101	An Introduction to Geography	3
	And	
GEP 205	Principles of Geographic Information Science	3
	And	
GEP 321	Introduction to Remote Sensing	4
	Or	
GEP 3750	Data Acquisition and Integration Methods for GIS Analysis	3

Or 6 credits from List D:

POL 350	Political Demography	3
POL 366	Global Political Economy	3
POL 368	Global Environmental Politics	3
POL 343	International and Regional Organizations	3

Biology Teacher, Grades 7-12, B.A. (55 Credit Major)

This major sequence in Biology is appropriate only for students planning to teach in middle and high school. The required education sequence in middle and high school education must be completed for all students selecting this major in Biology. As part of their overall training students in science, students will be required to take ESC 419.

The required credits are distributed as follows:

8 credits in:

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4

BIO 166 and BIO 167: Both courses count towards Pathways General Education requirements. Both are prerequisites to all other Biology courses at the 200-level or higher.

5 credits in physics:

PHY 166	General Physics I	5
---------	-------------------	---

17 credits in chemistry:

CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
CHE 232	Organic Chemistry Lecture I	4
CHE 233	Organic Chemistry Laboratory I	2

3 credits in mathematics:

MAT 128	Foundations of Data Science	3
---------	-----------------------------	---

At least 22 credits in advanced biology courses from 3 areas:**At least two courses from Cellular Biology:**

BIO 238	Genetics	4
BIO 268	Vertebrate Embryology	4
BIO 311	Parasitology	3
BIO 320	Neural Development: From Genes and Cells to Brains	3
BIO 331	Experimental Microbiology	4
BIO 338	Genetics of Man	4
BIO 350	Introduction to Immunology	4
BIO 400	Biological Chemistry	4
BIO 406	Biochemistry of Differentiation	3
BIO 415	Medical Microbiology	4
BIO 420	Molecular Biology	4
BIO 465	Microbial Physiology and Genetics	4

At least one course from Organismic Biology:

BIO 228	Mammalian Physiology	4
BIO 267	Comparative Anatomy of Vertebrates	4
BIO 270	Invertebrate Zoology	3
BIO 330/BIO 330/BIO 340	Plant Physiology	4
BIO 333	Endocrine Physiology	4
BIO 340/BIO 330/BIO 340	Human Body and Brain	3
BIO 431	Comparative Animal Physiology	4
BIO 435	Neurophysiology	3

At least one course from Population Biology:

BIO 241	Evolution, Species, and Biogeography	3
BIO 336	Marine Biology Lectures	3
BIO 339	Ecology	4
BIO 401	Biological Systematics	4

Five-Year Combined B.S. /M.S. Dual Biology Degree

The Five-Year Biology B.S./M.S. is a single degree that offers qualified students the opportunity to earn both a Bachelor of Science and a Master of Science degree in Biology, which may be completed in as little as five years.

(Years 1-4) 120-credit B.S. in Biological Sciences. Winter and Summer Sessions must be used. BIO 489 must be taken twice and BIO 490 should be taken in the senior year.

(Years 1-2) Students must take the biology, math, chemistry, and physics prerequisites.

(Year 3) Research advisor chosen in Spring term.

(Year 4) Three M.S. courses taken for credit in both degrees (12 credits total). Must take BIO 489 in the Fall and BIO 489 and BIO 490 in the Spring.

(Year 5) Enrolled in M.S. program in thesis track (30 course credits, 12 of which are satisfied in Year 4). BIO 7991, and 7992 with possibility of BIO 7993. Defense of thesis and graduation by September 1.

30-32 M.S. Credits to be distributed as follows:

Students must take three M.S. courses in Year 4 (12 credits).

For example: BIO 634: Cell Biology and Electron Microscopy (4 credits).

Students must take three to four M.S. courses in Year 5 (12-14 credits).

For example: three thesis research courses (6 credits).

Note 1: This program will allow students to finish 1-2 years earlier than they would if they did a separate B.S. followed by a M.S. Additionally, this program provides students with extensive research experience, which will make them more competitive for jobs, doctoral programs and medical programs.

Note 2: To be eligible for the fifth-year program, all students must demonstrate an interest in, achievement in, or affinity for biology. This will be determined by having a minimum of 48 semester hours of mathematics and sciences study, including MAT 175 with a GPA of 3.0. Candidates must apply to the program no later than the first semester of their junior year and may apply as early as the second semester of their sophomore year.

The accelerated pace of this program is made possible by offering qualified students the opportunity to take masters level courses during their final year of undergraduate work. Students qualify by demonstrated attainment of a GPA of 3.0 in mathematics and science coursework as well as a GPA of 3.25 in the major through the first three years of study, and by completing all of the necessary prerequisites for those courses, which will ensure that they are prepared for graduate-level work.

Five Year Combined BS MS Dual Biology Degree Prior to Fall 2020

Biology Minor

Effective: Fall 2019. Students whose minor declaration for this program is effective beginning in the Fall of 2019 or thereafter must follow these requirements. Students whose declarations were for previous semesters follow the requirements that were in effect at the time of declaration. See link below for the most recent Biology Minor requirements prior to Fall 2019. Please refer to DegreeWorks or consult an advisor to review your requirements and track your progress.

A minor in Biology will familiarize students with concepts and research tools that scientists use to understand the living world and solve real-world problems. By minoring in biology, students from various disciplines such as business, computer science, psychology, and health sciences can combine their expertise with their knowledge of the natural world to enhance their career options.

Biology Minor (12-20 credits):

8 credits:

	Pre-Requisites to the minor*:	
BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4

12 credits:

BIO 238	Genetics	4
	One 200 level BIO course (BIO 230 is not accepted) 4 credits	
	One 300 or 400 level BIO course 4 credits	

*BIO 166 and BIO 167 are prerequisites to all other advanced biology courses and are STEM variants that students can use to satisfy their General Education requirements. Students who complete BIO 166 and BIO 167 before declaring the minor must complete only the remaining 12 credits.

Biology Minor Prior to Fall 2019

Quantitative Systems Biology (16 Credit Minor)

This interdisciplinary minor provides training in computer and mathematical modeling of complex biological systems. The minor will be jointly housed by the Department of Biological Sciences and Mathematics and Computer Science.

Degree Requirements:

The minor will require the following 16 credits. There are three tracks depending upon your major.

If you are a Biology or Biochemistry major you will be required to follow Track 1:

CMP 232	Elementary Discrete Structures &	4
---------	----------------------------------	---

Applications to Computer Science

CMP 444	Modeling Cellular Networks	4
CMP 446	Computational Tools for Bioinformatics	4

If you are a Computer Science Major you will be required to follow Track 2:

BIO 166	Principles of Biology: Cells and Genes	4
BIO 238	Genetics	4
CMP 444	Modeling Cellular Networks	4
CMP 446	Computational Tools for Bioinformatics	4

C. All other Majors are required to follow Track 3:

BIO 166	Principles of Biology: Cells and Genes	4
BIO 238	Genetics	4
CMP 232	Elementary Discrete Structures & Applications to Computer Science	4
CMP 446	Computational Tools for Bioinformatics	4

NOTES: No course can be used for both the minor and major. The level of math needed for successful completion for the minor is either MAT 175 and MAT 176 or MAT 175 and BIO 240.

Special Program in Plant Sciences in Conjunction with the New York Botanical Garden

The purpose of the New York Botanical Garden's Continuing Education Program is to interest and instruct the general public in the various facets of plant life. Several major programs of study are offered: Botany, Genetics and Evolution, Field Botany, Plant Morphology and Taxonomy, and Home Landscaping. Among the offerings at the Garden, the courses listed below may be counted for elective credit at Lehman College. These courses are not open to students in the Biology major except in special circumstances to be decided in consultation with the Biological Sciences Department. They are taught by members of the New York Botanical Garden staff, all specialists and experienced teachers in their specific areas. In general, they involve lectures, discussions, demonstrations, and films. Laboratory activity is indicated as part of the course description.

Interdepartmental Concentration in Anthropology, Biology, and Chemistry, B.S. (60-68 Credit Major)

The required credits are divided into tracks:

Track I for specializations in Biological Anthropology (such as Human Origins, Human Genetics, Human Growth, Human Adaptation, and Forensic Anthropology).

Track II for specialization in Criminalistics and for students interested in health-professional careers (these students are advised to visit the pre-health office before choosing their electives); students in this track may take any three courses from MAT 175-MAT 176 (Calculus I and II) and PHY 166-PHY 167 (General Physics I and II) as elective credits within the major. (See elective credits below.)

A. Track I (60-63 credits)

Credits to be taken by all majors in Track I for specialization in Biological Anthropology:

28-43 credits in required courses as follows:

8 credits in biology:

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4

8 credits in biological anthropology:

ANT 171	Introduction to Human Evolution	4
ANT 269	Introduction to Human Variation	4

9 credits in chemistry:

CHE 114	Essentials of General Chemistry Lecture	3
CHE 115	Essentials of General Chemistry Laboratory	1.5
CHE 120	Essentials of Organic Chemistry Lecture I	3
CHE 121	Essentials of Organic Chemistry Laboratory II	1.5

3-4 credits in quantitative methods:

ANT 322	Analyzing Anthropological Data Quantitatively Or	3
MAT 132	Introduction to Statistics	4

0-14 credits in enhanced scientific and analytic competency:

Up to 14 credits from the following list:

CMP 167	Programming Methods I	3
CMP 168	Programming Methods II	4
MAT 128	Foundations of Data Science	3
MAT 172	Precalculus	4
PHY 166	General Physics I	5
PHY 167	General Physics II	5

Elective credits (17-35)

To total at least 60-63 when added to the number of required credits taken. Students interested in Forensic Anthropology should include ANT 303 (Human Osteology, 4.5 credits, 6 hours). Any course in the list that follows may be taken for elective credit.

B. Track II (65-68 credits)

Credits to be taken by all majors in Track II for specializations in Criminalistics and for students interested in health-professional careers.

46-47 credits in required courses as follows:

8 credits in biology:

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4

8 credits in biological anthropology:

ANT 171	Introduction to Human Evolution	4
ANT 269	Introduction to Human Variation	4

23 credits in chemistry:

CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
CHE 232	Organic Chemistry Lecture I	4
CHE 233	Organic Chemistry Laboratory I	2
CHE 234	Organic Chemistry Lecture II	4
CHE 235	Organic Chemistry Laboratory II	2

7-8 credits in quantitative methods:

MAT 172	Precalculus And Either	4
ANT 322	Analyzing Anthropological Data Quantitatively Or	3
MAT 132	Introduction to Statistics	4

MAT 172: pre-requisite for CHE 166.

MAT 172: may also be satisfied by either successful completion of MAT 108 and MAT 171 or placement into MAT 175 by the Department of Mathematics.

Elective credits (18-22)

To total at least 65-68 when added to the number of required credits taken. Any course in the list that follows may be taken for elective credit. Those interested in Criminalistics should consider extra Chemistry courses. As noted above, students in this track only may also include MAT 175-MAT 176 (Calculus I and II) and PHY 166-PHY 167 (General Physics I and II) as elective credits within the major.

Courses Acceptable for Elective Credit:

ANT	Anthropological	3	302/GEP 302		
206/ANT	Perspectives on Women		BIO 331	Experimental Microbiology	4
206/WST 206	and Men		BIO 333	Endocrine Physiology	4
ANT 211	Cultural Anthropology	3	BIO 339	Ecology	4
ANT 212	Ancient Peoples and	3	BIO 400	Biological Chemistry	4
	Cultures		BIO 401	Biological Systematics	4
ANT 300	Human Variation	3	BIO 432	Biological Fine Structure	3
ANT 301	Human Origins	3	BIO 433/BIO	Techniques in Electron	3
ANT 302	Primate Behavior and	3	433	Microscopy	
	Ecology		CHE 232	Organic Chemistry Lecture	4
ANT 303	Human Osteology	4.5	I		
ANT 305	Forensic Anthropology	3	CHE 233	Organic Chemistry	2
ANT 306	Survey of Forensic Science	3	Laboratory I		
ANT 307	The Anthropology of	3	CHE 234	Organic Chemistry Lecture	4
	Growth		II		
ANT 309	Human Genetics	3	CHE 235	Organic Chemistry	2
ANT 310	Evolution of the Primates	3	Laboratory II		
ANT 323	Methods and Philosophies	3	CHE 244	Introduction to	3
	in Paleoanthropology		Biochemistry		
ANT 332	Kinship, Marriage, and the	3	CHE 245	Biochemistry Laboratory	1.5
	Family		CHE 249	Quantitative Analysis	5
ANT 334	Mind and Culture	3	CHE	Introductory Physical	3
ANT 341	Medical Anthropology	3	332/CHE	Chemistry I	
ANT 360	Humans and the	3 (May be	332/CHE 342		
	Environment	repeated	CHE 334	Introductory Physical	3
		for a	Chemistry II		
		maximum	CHE 335	Introductory Physical	3
		of 6.)	Chemistry of Biosystems		
ANT	Excavation of the Lehman	4	Laboratory		
370/ANT	College Site		CHE 444	Biochemistry I	4
271/ANT 370			CHE 446	Biochemistry II	3
ANT 371	Field and Laboratory	4	GEH 320	Population Geography	3
	Research in Archaeology		GEH 335	Problems in Human	3
ANT 489	Independent Research in	2-3 per	Ecology		
	Anthropology	semester	GEO 167	Earth Evolution	3
		(maximum	GEO 242	Introductory Paleontology	4
		6).	GEO 303	Stratigraphy and	4
BIO 181	Anatomy and Physiology I	4	Sedimentology		
BIO 182	Anatomy and Physiology II	4	GEO 342	Micropaleontology	4
BIO 183	Human Biology	4	GEP 204	Basic Mapping:	3
BIO 184	Plants and People	4	Applications and Analysis		
BIO 226	Human Physiology	3.5	GEP 205	Principles of Geographic	3
BIO 227	Mammalian Histology	4	Information Science		
BIO 228	Mammalian Physiology	4	GEP 321	Introduction to Remote	4
BIO 230	Microbiology	4	Sensing		
BIO 238	Genetics	4	PSY 166	General Psychology	3
BIO 241	Evolution, Species, and	3	PSY 217	Child Psychology	3
	Biogeography		PSY 248	Introduction to Primate	3
BIO 267	Comparative Anatomy of	4	Behavior Studies		
	Vertebrates		PSY 310	Psychology of Learning	3
BIO 268	Vertebrate Embryology	4	PSY 316	Physiological Psychology	3
BIO 302/BIO	Biogeography	4	PSY 318	Comparative Psychology	3
			and Ethology		

Anthropology Physical Biology and Chemistry BS Prior to Fall 2020

Health Careers Preparation Post-Baccalaureate Certificate Program (HealthBridge)

The Health Careers Preparation Post-Baccalaureate Certificate Program (HealthBridge) is aimed primarily at bachelor degree holders who decided to pursue a career in the health professions (medicine, dentistry, pharmacy, optometry, physical therapy, physician assistant studies, or veterinary medicine) while still undergraduates, but did not complete all of the required prerequisites. For some, this is because they have long had a dream of work in the health professions, but chose to defer it during their undergraduate work only to come back to it later in their lives. For others, they have made the decision to pursue a career in the health professions late in their undergraduate study, perhaps as seniors, leaving them insufficient time to complete their coursework. The program will also serve “career-changers,” that is, bachelor degree holders who did not pursue preparation for the health professions as undergraduates, but make the decision subsequent to graduation.

While this program will accept students from all backgrounds, we believe it is an especially important option for students who are underrepresented in the health professions, and may therefore be more likely to commit to a career in the health professions relatively late in their academic careers.

Students pursuing the Health Careers Preparation Post-Baccalaureate Certificate must choose one of seven tracks, based on their eventual career goal:

- Bridge to Medicine
- Bridge to Physician Assistant
- Bridge to Physical Therapy
- Bridge to Dental
- Bridge to Pharmacy
- Bridge to Optometry
- Bridge to Veterinary Medicine

Regardless of track, the Health Careers Preparation certificate is divided into two phases, the Foundational phase and the In Depth phase. It is not necessary to complete the Foundational phase in order to apply for admission to the In Depth phase. Students admitted to the Foundational phase must apply for admission to the In Depth phase once they meet those requirements. The certificate is awarded following successful completion of the In Depth phase.

Admission Requirements

Admissions to both the Foundational and In Depth phases are competitive.

The *minimum* standards for admission to the Foundational phase are:

- A bachelor’s degree (or its equivalent) from an accredited college or university
- Cumulative undergraduate grade point average (GPA) dependent on track:
 - 2.6 for Bridge to Pharmacy
 - 2.7 for Bridge to Dental or Bridge to

Veterinary Medicine

- 2.9 for Bridge to Optometry, Bridge to Physical Therapy, or Bridge to Physician Assistant
- 3.0 for Bridge to Medicine

- Placement in to MAT 171 (Elements of Precalculus) or higher
- Personal statement indicating suitability and motivation for the program
- Letter of recommendation
- Interview

The *minimum* standards for admission to the In Depth phase are:

- A bachelor’s degree (or its equivalent) from an accredited college or university
- Cumulative undergraduate grade point average (GPA) dependent on track:

- 2.8 for Bridge to Pharmacy

- 2.9 for Bridge to Dentistry or Bridge to

Veterinary Medicine

- 3.0 for Bridge to Optometry, Bridge to Physical Therapy, or Bridge to Physician Assistant

- 3.1 for Bridge to Medicine

- Placement in to calculus (this can be achieved by completion of MAT 171+108 or MAT 172 with a C or higher)
- Completion of ENG 111 (first semester English composition) or equivalent
- For Bridge to Medicine, Physician Assistant, Dentistry, Pharmacy, Optometry, and Veterinary Medicine: completion of CHE 168 and CHE 169 (second semester General Chemistry lecture and laboratory) or equivalent
- For Bridge to Physician Assistant, Physical Therapy, and Pharmacy: completion of BIO 181 (first semester Anatomy and Physiology with laboratory) or equivalent
- For Bridge to Medicine, Physician Assistant, Physical Therapy, Dental, Pharmacy, and Optometry: completion of PSY 166 (General Psychology) or equivalent

- Personal statement indicating suitability and motivation for the program
- Letter of recommendation
- Interview
- It is not necessary for a student to enroll in the Foundational phase in order to apply for the In Depth phase
- Students admitted to the Foundational phase are not guaranteed admission to the In Depth phase unless they meet the minimum standards specified above

Exceptions to Grade Policy

Students must complete at least 18 credits of the certificate in residence at Lehman during the Foundational and/or In Depth phases. Credits earned prior to matriculation in the certificate cannot be applied to the 18-credit minimum, even if they were earned at Lehman College.

Students must also complete at least 50% of the minimum credits required for their track in residency at Lehman, but this requirement can be satisfied in part by courses taken prior to matriculation in to the Certificate.

Example: the Bridge to Optometry track is 39-61 credits, so at least 19.5 credits (50% of 39, the minimum for the track) must be taken in residency at Lehman. At least 18 of those must be taken after matriculation in to either the Foundational or In Depth phase of the certificate program. The remaining 1.5 credits for residency must have been taken at Lehman, but could have been taken prior to matriculation in to the certificate program; for example, during the course of completion of a first degree at Lehman College. The balance of the 39 credits required for the Bridge to Optometry track within the certificate could come from any combination of eligible transfer credits, eligible credits taken in residency prior to matriculation in to the certificate program, and credits taken during the certificate program.

Residency in the Certificate

If a student begins the In Depth phase and does not receive C's or greater in all of the courses required for the certificate, they may apply to the Program for a waiver for up to two courses with grades lower than C. If that is not sufficient to allow awarding of the certificate (e.g. they withdrew from one or more required courses), they have one year to take or retake up to 12 credits, paying appropriate tuition, in order to earn the certificate.

Change of Tracks

At any time, students have the option to apply for a change of track. Approval of changes is at the discretion of the program, but is more likely to be granted for a student requesting a change to a goal with lower minimum GPA requirements (e.g.

Bridge to Optometry to Bridge to Dentistry) than for those requesting a change to a goal with higher GPA requirements, even if they meet the higher requirements.

Certificate Requirements

Bridge to Medicine Track (38-65 credits)

Prerequisites to the Track (20-26 credits)

Completion of the following courses, or equivalents, are required for the Bridge to Medicine track of the Health Careers Preparation certificate. In many cases, students will have completed some or all of these courses prior to matriculation in to the certificate program; in such cases, those courses may fulfill this requirement but are not counted as credits toward completion of the certificate. Any courses from this list taken subsequent to matriculation in to the certificate program will be counted toward the credits earned for the certificate.

CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
ENG 111	English Composition I	3
ENG 121	English Composition II	3
MAT 171	Elements of Precalculus	4
	And	
MAT 108	Trigonometry	2
	Or	
MAT 172	Precalculus	4
	Or	
	Placement in to MAT 175	
PSY 166	General Psychology	3

Certificate Requirements (38-39 credits)

To earn the Certificate in the Bridge to Medicine track, the following courses must be completed, with a grade of C or higher, by the end of the In Depth phase:

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4
CHE 232	Organic Chemistry Lecture I	4
CHE 233	Organic Chemistry Laboratory I	2
CHE 234	Organic Chemistry Lecture II	4
CHE 235	Organic Chemistry Laboratory II	2
BIO 400	Biological Chemistry	4
	Or	

CHE 444	Biochemistry I	4	MAT 171	Elements of Precalculus And	4
PHY 166	General Physics I	5	MAT 108	Trigonometry	2
PHY 168	Or Physics I for Scientists and Engineers	5	MAT 172	Precalculus Or Placement in to MAT 175	4
PHY 167	General Physics II	5	PSY 166	General Psychology	3
PHY 169	Or Physics II for Scientists and Engineers	5	Certificate Requirements (33-34 credits)		
NSS 350	Pre-Professional Seminar	1 (course may be repeated for a total of 2)	To earn the Certificate in the Bridge to Physician Assistant track the following courses must be completed, with a grade of C or higher, by the end of the In Depth phase:		
NSS 350	Pre-Professional Seminar	1 (course may be repeated for a total of 2)	BIO 166	Principles of Biology: Cells and Genes	4
NSS 352	The Medical School Admissions Process	3	BIO 167	Principles of Biology: Organisms	4
			CHE 232	Organic Chemistry Lecture I	4
			CHE 233	Organic Chemistry Laboratory I	2
			CHE 234	Organic Chemistry Lecture II	4
			CHE 235	Organic Chemistry Laboratory II	2
			BIO 400	Biological Chemistry Or	4
			CHE 444	Biochemistry I	4

NSS 350 is taken in two semesters: fall and spring.

Bridge to Physician Assistant Track (36*-68 credits)

Prerequisites to the Track (28-34 credits)

Completion of the following courses, or equivalents, are required for the Bridge to Physician Assistant track of the Health Careers Preparation certificate. In many cases, students will have completed some or all of these courses prior to matriculation in to the certificate program; in such cases, those courses may fulfill this requirement but are not counted as credits toward completion of the certificate. Any courses from this list taken subsequent to matriculation in to the certificate program will be counted toward the credits earned for the certificate.

BIO 181	Anatomy and Physiology I	4
BIO 182	Anatomy and Physiology II	4
CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
ENG 111	English Composition I	3
ENG 121	English Composition II	3

BIO 238	Genetics	4
BIO 331	Experimental Microbiology	4
NSS 350	Pre-Professional Seminar	1 (course may be repeated for a total of 2)
NSS 350	Pre-Professional Seminar	1 (course may be repeated for a total of 2)

*Additional credits to bring the certificate total to at least 36 must be selected from the list of Additional Eligible Courses below.

NSS 350 is taken in two semesters: fall and spring.

Bridge to Physical Therapy Track (36*-64 credits)

Prerequisites to the Track (25-31 credits)

Completion of the following courses, or equivalents, are required for the Bridge to Physical Therapy track of the Health Careers Preparation certificate. In many cases, students will have completed some or all of these courses prior to matriculation in to the certificate program; in such cases, those courses may fulfill this requirement but are not counted as credits toward completion of the certificate. Any courses from this list taken subsequent to matriculation in to the certificate program will be counted toward the credits earned for the certificate.

repeated
for a
total of
2)
1
(course
may be
repeated
for a
total of
2)

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4
BIO 181	Anatomy and Physiology I	4
BIO 182	Anatomy and Physiology II	4
ENG 111	English Composition I	3
ENG 121	English Composition II	3
MAT 171	Elements of Precalculus And	4
MAT 108	Trigonometry Or	2
MAT 172	Precalculus Or Placement in to MAT 175	4
PSY 166	General Psychology	3

Certificate Requirements (23 credits)

To earn the Certificate in the Bridge to Physical Therapy track the following courses must be completed, with a grade of C or higher, by the end of the In Depth phase:

CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
PHY 166	General Physics I Or	5
PHY 168	Physics I for Scientists and Engineers	5
PHY 167	General Physics II Or	5
PHY 169	Physics II for Scientists and Engineers	5
NSS 350	Pre-Professional Seminar	1 (course may be

NSS 350 Pre-Professional Seminar

*Additional credits to bring the certificate total to at least 36 must be selected from the list of Additional Eligible Courses below.

NSS 350 is taken in two semesters: fall and spring.

Bridge to Dental Track (36*-62 credits)

Prerequisites to the Track 20-26 credits

Completion of the following courses, or equivalents, are required for the Bridge to Dental track of the Health Careers Preparation certificate. In many cases, students will have completed some or all of these courses prior to matriculation in to the certificate program; in such cases, those courses may fulfill this requirement but are not counted as credits toward completion of the certificate. Any courses from this list taken subsequent to matriculation in to the certificate program will be counted toward the credits earned for the certificate.

CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
ENG 111	English Composition I	3
ENG 121	English Composition II	3
MAT 171	Elements of Precalculus And	4
MAT 108	Trigonometry Or	2
MAT 172	Precalculus Or Placement in to MAT 175	4
PSY 166	General Psychology	3

Certificate Requirements (35-36 credits)

To earn the Certificate in the Bridge to Dental track the following courses must be completed, with a grade of C or higher, by the end of the In Depth phase:

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology:	4

	Organisms	
CHE 232	Organic Chemistry Lecture I	4
CHE 233	Organic Chemistry Laboratory I	2
CHE 234	Organic Chemistry Lecture II	4
CHE 235	Organic Chemistry Laboratory II	2
BIO 400	Biological Chemistry	4
CHE 444	Biochemistry I	4
PHY 166	General Physics I	5
PHY 168	Physics I for Scientists and Engineers	5
PHY 167	General Physics II	5
PHY 169	Physics II for Scientists and Engineers	5
NSS 350	Pre-Professional Seminar	1 (course may be repeated for a total of 2)
NSS 350	Pre-Professional Seminar	1 (course may be repeated for a total of 2)

*Additional credits to bring the certificate total to at least 36 must be selected from the list of Additional Eligible Courses below.

NSS 350 is taken in two semesters: fall and spring.

Bridge to Pharmacy Track (36*-73 credits)

Prerequisites to the Track (32-38 credits)

Completion of the following courses, or equivalents, are required for the Bridge to Pharmacy track of the Health Careers Preparation certificate. In many cases, students will have completed some or all of these courses prior to matriculation in to the certificate program; in such cases, those courses may fulfill this requirement but are not counted as credits toward completion of the certificate. Any courses from this list taken subsequent to matriculation in to the

certificate program will be counted toward the credits earned for the certificate.

BIO 181	Anatomy and Physiology I	4
BIO 182	Anatomy and Physiology II	4
CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
ENG 111	English Composition I	3
ENG 121	English Composition II	3
MAT 171	Elements of Precalculus And	4
MAT 108	Trigonometry Or	2
MAT 172	Precalculus Or Placement in to MAT 175	4
MAT 175	Calculus I	4
PHY 166	General Physics I	5

Certificate Requirements (34-35 credits)

To earn the Certificate in the Bridge to Pharmacy track the following courses must be completed, with a grade of C or higher, by the end of the In Depth phase:

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4
BIO 331	Experimental Microbiology	4
CHE 232	Organic Chemistry Lecture I	4
CHE 233	Organic Chemistry Laboratory I	2
CHE 234	Organic Chemistry Lecture II	4
CHE 235	Organic Chemistry Laboratory II	2
BIO 400	Biological Chemistry Or	4
CHE 444	Biochemistry I	4
PHY 166	General Physics I Or	5
PHY 168	Physics I for Scientists and Engineers	5
NSS 350	Pre-Professional Seminar	1 (course may be repeated for a

		total of
		2)
NSS 350	Pre-Professional Seminar	1
		(course
		may be
		repeated
		for a
		total of
		2)

*Additional credits to bring the certificate total to at least 36 must be selected from the list of Additional Eligible Courses below.

NSS 350 is taken in two semesters: fall and spring.

Bridge to Optometry Track (39-70 credits)

Prerequisites to the Track (24-30 credits)

Completion of the following courses, or equivalents, are required for the Bridge to Optometry track of the Health Careers Preparation certificate. In many cases, students will have completed some or all of these courses prior to matriculation in to the certificate program; in such cases, those courses may fulfill this requirement but are not counted as credits toward completion of the certificate. Any courses from this list taken subsequent to matriculation in to the certificate program will be counted toward the credits earned for the certificate.

CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
ENG 111	English Composition I	3
ENG 121	English Composition II	3
MAT 171	Elements of Precalculus	4
	And	
MAT 108	Trigonometry	2
	Or	
MAT 172	Precalculus	4
	Or	
	Placement in to MAT 175	
MAT 175	Calculus I	4
PSY 166	General Psychology	3

Certificate Requirements (39-40 credits)

To earn the Certificate in the Bridge to Optometry track the following courses must be completed, with a grade of C or higher, by the end of the In Depth phase:

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology:	4

	Organisms	
BIO 331	Experimental Microbiology	4
CHE 232	Organic Chemistry Lecture I	4
CHE 233	Organic Chemistry Laboratory I	2
CHE 234	Organic Chemistry Lecture II	4
CHE 235	Organic Chemistry Laboratory II	2

BIO 400	Biological Chemistry	4
	Or	
CHE 444	Biochemistry I	4

PHY 166	General Physics I	5
	Or	
PHY 168	Physics I for Scientists and Engineers	5

PHY 167	General Physics II	5
	Or	
PHY 169	Physics II for Scientists and Engineers	5

NSS 350	Pre-Professional Seminar	1
		(course
		may be
		repeated
		for a
		total of
		2)

NSS 350	Pre-Professional Seminar	1
		(course
		may be
		repeated
		for a
		total of
		2)

NSS 350 is taken in two semesters: fall and spring.

Bridge to Veterinary Medicine Track (36*-63 credits)

Prerequisites to the Track (21-27 credits)

Completion of the following courses, or equivalents, are required for the Bridge to Veterinary Medicine track of the Health Careers Preparation certificate. In many cases, students will have completed some or all of these courses prior to matriculation in to the certificate program; in such cases, those courses may fulfill this requirement but are not counted as credits toward completion of the certificate. Any courses from this list taken subsequent to matriculation in to the certificate program will be counted toward the credits earned for the certificate.

CHE 166	General Chemistry I	4			2)
CHE 167	General Chemistry Laboratory I	1.5	NSS 350	Pre-Professional Seminar	1
CHE 168	General Chemistry II	4			(course
CHE 169	General Chemistry Laboratory II	1.5			may be
ENG 111	English Composition I	3			repeated
ENG 121	English Composition II	3			for a
					total of
					2)
MAT 171	Elements of Precalculus And	4	*Additional credits to bring the certificate total to at least 36 must be selected from the list of Additional Eligible Courses below.		
MAT 108	Trigonometry Or	2	NSS 350 is taken in two semesters: fall and spring.		
MAT 172	Precalculus Or	4	Additional Eligible Courses		
	Placement in to MAT 175		Regardless of track, it is necessary to earn no fewer than 36 credits within the certificate. For any track, additional credits to satisfy the certificate, or for purposes of establishing residency at Lehman or in the certificate, may be drawn from the following list of courses, under the guidance and with the approval of a program advisor:		
MAT 175	Calculus I	4	Select from the following list of courses:		
Certificate Requirements (35-36 credits)					
To earn the Certificate in the Bridge to Veterinary Medicine track the following courses must be completed, with a grade of C or higher, by the end of the In Depth phase:					
BIO 166	Principles of Biology: Cells and Genes	4	BIO 181	Anatomy and Physiology I	4
BIO 167	Principles of Biology: Organisms	4	BIO 182	Anatomy and Physiology II	4
CHE 232	Organic Chemistry Lecture I	4	BIO 238	Genetics	4
CHE 233	Organic Chemistry Laboratory I	2	BIO 331	Experimental Microbiology	4
CHE 234	Organic Chemistry Lecture II	4	BIO 400	Biological Chemistry	4
CHE 235	Organic Chemistry Laboratory II	2	BIO 420	Molecular Biology	4
BIO 400	Biological Chemistry Or	4	BIO 435	Neurophysiology	3
CHE 444	Biochemistry I	4	BIO 501	Topics in Genetics	4
PHY 166	General Physics I Or	5	CHE 232	Organic Chemistry Lecture I	4
PHY 168	Physics I for Scientists and Engineers	5	CHE 233	Organic Chemistry Laboratory I	2
PHY 167	General Physics II Or	5	CHE 234	Organic Chemistry Lecture II	4
PHY 169	Physics II for Scientists and Engineers	5	CHE 235	Organic Chemistry Laboratory II	2
NSS 350	Pre-Professional Seminar	1	CHE 444	Biochemistry I	4
	(course may be repeated for a total of		CHE 446	Biochemistry II	3
			CHE 447	Biochemistry Laboratory	3
			DST 311	Social Science Perspectives on Health and Disability	4
			DST 336/DST 336/PHI 336	Disability, Ethics & the Body	3
			ECO 167	Introduction to Microeconomics	3
			ENW 307	Health and Science Writing	3
			MAT 108	Trigonometry	2
			MAT 128	Foundations of Data Science	3
			MAT 132	Introduction to Statistics	4
			MAT 155	Calculus I Laboratory	1
			MAT 171	Elements of Precalculus	4
			MAT 172	Precalculus	4
			MAT 175	Calculus I	4
			PHI 341	Medical Ethics	3
			PHI 434	Neuroethics	3

PHY 166	General Physics I	5
PHY 167	General Physics II	5
PHY 168	Physics I for Scientists and Engineers	5
PHY 169	Physics II for Scientists and Engineers	5
POL 211	Public Policy	3
POL 318	The Politics of Health	3
PSY 166	General Psychology	3
PSY 217	Child Psychology	3
PSY 218	Psychology of Adolescence	3
PSY 219	Psychology of Adulthood and Aging	3
SOC 166	Fundamentals of Sociology	3

Business and Liberal Arts

Program Director: Jane K. Cleland, Department of English

Steering Committee: James Mahon, Dean, School of Arts and Humanities; Michael Buckley, Philosophy; Elhum Haghighat, Political Science; Marie Marianetti, History; Janet Skolnik, Art.

The Business and Liberal Arts Program enables students to combine a traditional liberal arts education (including the natural and social sciences) with effective training in the business and/or not-for-profit sectors. Many liberal arts colleges around the nation have taken the initiative to prepare their students for business and non-profit careers without compromising the traditional characteristic of their educational mission. The administrators and educators of these institutions have noted that employers look for potential managers, who in addition to having excelled in critical thinking, effective communication, and analytical ability honed in liberal arts curriculums, also possess a general knowledge of business environments. This program both reaffirms the fundamental importance of liberal arts in college graduates' overall development and provides the necessary theoretical and practical exposure to the global business world through appropriate courses, workshops, mentorship, and/or internships.

Business Minor for Liberal Arts Majors

From the Program Director, Jane Cleland:

BALA is

- a minor that lets students focus on a liberal arts major while developing the skills and knowledge necessary to succeed in a range of careers.
- a selection of four out of six fundamental business-related courses that provide a solid foundation in the field.
- an opportunity for sophomores to sample BALA courses and explore career options before declaring a minor.

- a flexible program for more advanced students to test their creative career plans, explore business opportunities, and apply business principles through:
- a dedicated program counselor and one-on-one advisement
- mentoring
- workshops, internships, and seminars
- an individualized capstone project
- development of personalized business and strategic plans

This minor, under the supervision of the Business and Liberal Arts Program, is designed to provide students majoring in the traditional fields of liberal arts with basic knowledge and skills useful for a career in business. Students may also apply for admission to the Internship Sequence, which includes an additional 4- or 5-credit course-requirement and is supplemented by internships, workshops, seminars, mentoring opportunities, and advising.

Requirements

Students may declare the minor in Business for Liberal Arts Majors upon successful completion of two semesters of a declared Liberal Arts major* (i.e., 24 credits). Acceptance into the Internship Sequence is by written application to the Director of the Business and Liberal Arts Program.

The required courses are distributed as follows:

Credits (12-17)

3 credits in accounting:

ACC 171	Principles of Accounting I	3
---------	----------------------------	---

6 credits in management:

BBA 204/BBA 204/BBA 304	Principles of Management	3
-------------------------	--------------------------	---

And

BBA 332/ECO 332/BBA 332	Marketing Management	3
-------------------------	----------------------	---

Or

BBA 328	Human Resource Management	3
---------	---------------------------	---

3 credits in communication:

MCS 300	Corporate Communication	3
---------	-------------------------	---

Or

PHI 330	Business Ethics	3
---------	-----------------	---

MCS 300: This course has prerequisites that may be satisfied by recommendation of the relevant Department.

To continue in the Internship Sequence, candidates must complete an additional 4-5 credits in:

HUM 470	Humanities Internship	5
	Or	
POL 470/POL 470/SOC 470	Seminar and Internship Program in New York Government	4
	Or	

NSS 470 Science Internship 5

To register for one of these courses, students must earn an overall G.P.A. of 3.0 or better in the minor.

* See the list of approved Liberal Arts majors below.

NOTE: The same courses may not be used to satisfy the requirements for both the major and the minor in Business for Liberal Arts Majors.

List of Approved Liberal Arts Majors

African and African American Studies
 American Studies
 Anthropology
 Art and Art History
 Biological Sciences
 Chemistry
 Comparative Literature
 English
 Languages and Literatures
 Geography
 Geology
 History
 Italian American Studies
 Media Communications Studies
 Latin American, Latino and Puerto Rican Studies
 Linguistics
 Mathematics
 Music
 Philosophy
 Physics
 Political Science
 Psychology
 Sociology
 Theatre and Dance

Students in the Adult Degree Program are also encouraged to apply.

HOW DO I APPLY?

Download the Business For Liberal Arts application 2016 and return it to Shuster Hall, Room 177, or Shuster Hall, Room 310. You may also pick up an application at Shuster Hall, Room 177.

DIRECTOR:

Prof. Jane Cleland (<http://www.lehman.edu/academics/arts-humanities/english/faculty-cleland.php>) (English)
 Carman Hall, Room 396
jane.cleland@lehman.cuny.edu

Chemistry

Department Chair: Andrei Jitianu (Davis Hall, Room 315)

Undergraduate Advisor: Naphtali O'Connor (Davis Hall, Room 326)

Chemistry faculty share advising responsibility. See the Chemistry Department advising schedule on the website.

Department Faculty and Staff: Professors: Iraj Ganjian, Andrei Jitianu, Marc S. Lazarus, Gustavo Lopez, Pamela Mills; Associate Professors: Thomas Kurtzman, Naphtali O'Connor; Assistant Professors: Benjamin Burton-Pye, Columba De La Parra, Melissa Deri, Prabodhika Mallikaratchy, Donna McGregor; Clinical Professor: Sonjae Wallace; Chief College Laboratory Technician: Sharif Elhakem; Senior College Lab Technicians: Sarswati Amarante, Bibi N. Gafur, Habib Girgis

The Department of Chemistry offers degree programs designed to prepare students for advanced study and careers in chemistry, biochemistry, and related fields, including medicine and dentistry. For students majoring in other science or science-related fields, the Department offers courses needed to pursue careers in science teaching, medicine, dentistry, nursing, and nutrition. For non-science majors, courses are offered that present the concepts and facts of chemistry useful in understanding and appreciating present-day scientific knowledge and its application to everyday life. The B.S. in Chemistry and Chemistry with a specialization in Biochemistry are accredited by the American Chemical Society (ACS).

Departmental Honors

In order for students to receive departmental honors they must satisfy the College requirements for departmental honors and must complete CHE 491 with a grade of B+ or greater.

Chemistry, B.A. (54-67 Credit Major)

The Chemistry BA is comprised of a core of 32-42 credits and an area of concentration in chemistry or biochemistry. This major is recommended for those students in chemistry who are preparing for (1) admission to medical, veterinary, or dental school; (2) certification as secondary school teachers of chemistry; or (3) positions in the chemical industry.

Credits (54-67)

Chemistry Core (required) (32-42 credits):

18-24 credits in chemistry:

CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
	Or	
CHE 114	Essentials of General Chemistry Lecture	3
CHE 115	Essentials of General Chemistry Laboratory	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
CHE 232	Organic Chemistry Lecture I	4
CHE 233	Organic Chemistry Laboratory I	2
CHE 234	Organic Chemistry Lecture II	4
CHE 235	Organic Chemistry Laboratory II	2
CHE 450	Chemistry Seminar	1 (May be repeated for a total of 4.)

CHE 114, CHE 115 with departmental permission.

14-18 credits in mathematics and physics:

MAT 175	Calculus I	4
MAT 176	Calculus II	4
	And Either	
PHY 166	General Physics I	5
PHY 167	General Physics II	5
	Or	
PHY 168	Physics I for Scientists and Engineers	5
PHY 169	Physics II for Scientists and Engineers	5

Chemistry Concentration (22-24 credits):**18-20 credits in chemistry:**

In chemistry: 249, 342, 344, 345, 347 and one 3-5 credit elective Chemistry course at the 200 level or above, excluding 391 and 491.

CHE 249	Quantitative Analysis	5
CHE 342/CHE 332/CHE 342	Physical Chemistry Course in Quantum Chemistry	3
CHE 344	Physical Chemistry Course in Kinetics and Thermodynamics	3
CHE 345	Physical Chemistry Laboratory	2

CHE 347	in Quantum Chemistry Physical Chemistry Laboratory in Kinetics and Thermodynamics	2
---------	--	---

4 credits in mathematics:

In mathematics: MAT 226.

MAT 226	Vector Calculus	4
---------	-----------------	---

Biochemistry Concentration (23-25 credits):**15-17 credits in chemistry:**

In chemistry: CHE 342 or 344, 444, 446, 447, and one Chemistry course at the 200 level or above, excluding 391 and 491.

CHE 342/CHE 332/CHE 342	Physical Chemistry Course in Quantum Chemistry	3
	Or	
CHE 344	Physical Chemistry Course in Kinetics and Thermodynamics	3
CHE 444	Biochemistry I	4
CHE 446	Biochemistry II	3
CHE 447	Biochemistry Laboratory	3

8 credits in biology:

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4

Chemistry, B.S. (67-80 Credit Major)

The Chemistry BS is comprised of a core of 32-42 credits and an area of concentration in chemistry or biochemistry. This major is recommended for those students in chemistry who are preparing for (1) graduate study in chemistry, biochemistry, molecular biology, or clinical chemistry and (2) research careers in chemistry, biochemistry or biomedicine in hospitals, medical schools, or the chemical industry. The B.S. program is accredited by the Committee on Professional Training of the American Chemical Society (A.C.S.).

Credits (67-80)**Chemistry Core (required) (32-42 credits):****18-24 credits in chemistry:**

CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
	Or	
CHE 114	Essentials of General Chemistry Lecture	3
CHE 115	Essentials of General Chemistry Laboratory	1.5

CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
CHE 232	Organic Chemistry Lecture I	4
CHE 233	Organic Chemistry Laboratory I	2
CHE 234	Organic Chemistry Lecture II	4
CHE 235	Organic Chemistry Laboratory II	2
CHE 450	Chemistry Seminar	1 (May be repeated for a total of 4.)

CHE 114, CHE 115 with departmental permission.

14-18 credits in mathematics and physics:

MAT 175	Calculus I	4
MAT 176	Calculus II	4
	And	
PHY 168	Physics I for Scientists and Engineers	5
PHY 169	Physics II for Scientists and Engineers	5

Chemistry Concentration (35 credits):

31 credits in chemistry:

CHE 249	Quantitative Analysis	5
CHE 342/CHE 332/CHE 342	Physical Chemistry Course in Quantum Chemistry	3
CHE 344	Physical Chemistry Course in Kinetics and Thermodynamics	3
CHE 345	Physical Chemistry Laboratory in Quantum Chemistry	2
CHE 347	Physical Chemistry Laboratory in Kinetics and Thermodynamics	2
CHE 442	Inorganic Chemistry	3
CHE 443	Advanced Inorganic Chemistry	5
CHE 444	Biochemistry I	4
CHE 449	Instrumental Analysis	5

4 credits in mathematics:

MAT 226	Vector Calculus	4
---------	-----------------	---

Biochemistry Concentration (38 credits):

30 credits in chemistry:

CHE 249	Quantitative Analysis	5
CHE 342/CHE 332/CHE 342	Physical Chemistry Course in Quantum Chemistry	3
CHE 344	Physical Chemistry Course in	3

	Kinetics and Thermodynamics	
CHE 345	Physical Chemistry Laboratory in Quantum Chemistry	2
CHE 442	Inorganic Chemistry	3
CHE 443	Advanced Inorganic Chemistry	5
CHE 444	Biochemistry I	4
CHE 446	Biochemistry II	3
CHE 447	Biochemistry Laboratory	3

8 credits in biology:

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4

Preparation for Teaching

Students planning to teach should consult their advisers as well as the Office of the Dean of Education (Carman Hall, Room B-33).

Chemistry Minor

Requirements for a Chemistry Minor

Students must complete the following:

Students must complete 11 credits in general chemistry (CHE166 -167 and 168-169), 10 credits in organic chemistry (CHE 232-233 and 234-235), CHE 450 and also choose one elective chemistry course from the following options:

CHE 244
CHE 249
CHE 342
CHE 344
CHE 442

Any other 3 credit (or more) Chemistry course at the 200 level or above excluding CHE 391 and CHE 491 may be considered for the elective with departmental consent.

CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
CHE 232	Organic Chemistry Lecture I	4
CHE 233	Organic Chemistry Laboratory I	2
CHE 234	Organic Chemistry Lecture II	4
CHE 235	Organic Chemistry Laboratory II	2
CHE 450	Chemistry Seminar	1 (May

be
repeated
for a
total of
4.)

	And	
	One elective	3
CHE 244	Introduction to Biochemistry	3
CHE 249	Quantitative Analysis	5
CHE 342/CHE 332/CHE 342	Physical Chemistry Course in Quantum Chemistry	3
CHE 344	Physical Chemistry Course in Kinetics and Thermodynamics	3
CHE 442	Inorganic Chemistry	3

Interdepartmental Concentration in Anthropology, Biology, and Chemistry, B.S. (60-68 Credit Major)

The required credits are divided into tracks:

Track I for specializations in Biological Anthropology (such as Human Origins, Human Genetics, Human Growth, Human Adaptation, and Forensic Anthropology).

Track II for specialization in Criminalistics and for students interested in health-professional careers (these students are advised to visit the pre-health office before choosing their electives); students in this track may take any three courses from MAT 175-MAT 176 (Calculus I and II) and PHY 166-PHY 167 (General Physics I and II) as elective credits within the major. (See elective credits below.)

A. Track I (60-63 credits)

Credits to be taken by all majors in Track I for specialization in Biological Anthropology:

28-43 credits in required courses as follows:

8 credits in biology:

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4

8 credits in biological anthropology:

ANT 171	Introduction to Human Evolution	4
ANT 269	Introduction to Human Variation	4

9 credits in chemistry:

CHE 114	Essentials of General Chemistry Lecture	3
CHE 115	Essentials of General Chemistry Laboratory	1.5

CHE 120	Essentials of Organic Chemistry Lecture I	3
CHE 121	Essentials of Organic Chemistry Laboratory II	1.5

3-4 credits in quantitative methods:

ANT 322	Analyzing Anthropological Data Quantitatively	3
	Or	
MAT 132	Introduction to Statistics	4

0-14 credits in enhanced scientific and analytic competency:

Up to 14 credits from the following list:

CMP 167	Programming Methods I	3
CMP 168	Programming Methods II	4
MAT 128	Foundations of Data Science	3
MAT 172	Precalculus	4
PHY 166	General Physics I	5
PHY 167	General Physics II	5

Elective credits (17-35)

To total at least 60-63 when added to the number of required credits taken. Students interested in Forensic Anthropology should include ANT 303 (Human Osteology, 4.5 credits, 6 hours). Any course in the list that follows may be taken for elective credit.

B. Track II (65-68 credits)

Credits to be taken by all majors in Track II for specializations in Criminalistics and for students interested in health-professional careers.

46-47 credits in required courses as follows:

8 credits in biology:

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4

8 credits in biological anthropology:

ANT 171	Introduction to Human Evolution	4
ANT 269	Introduction to Human Variation	4

23 credits in chemistry:

CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
CHE 232	Organic Chemistry Lecture I	4
CHE 233	Organic Chemistry Laboratory I	2
CHE 234	Organic Chemistry Lecture II	4
CHE 235	Organic Chemistry Laboratory II	2

7-8 credits in quantitative methods:

MAT 172	Precalculus	4
	And Either	
ANT 322	Analyzing Anthropological Data	3
	Quantitatively	
	Or	
MAT 132	Introduction to Statistics	4

MAT 172: pre-requisite for CHE 166.

MAT 172: may also be satisfied by either successful completion of MAT 108 and MAT 171 or placement into MAT 175 by the Department of Mathematics.

Elective credits (18-22)

To total at least 65-68 when added to the number of required credits taken. Any course in the list that follows may be taken for elective credit. Those interested in Criminalistics should consider extra Chemistry courses. As noted above, students in this track only may also include MAT 175-MAT 176 (Calculus I and II) and PHY 166-PHY 167 (General Physics I and II) as elective credits within the major.

Courses Acceptable for Elective Credit:

ANT	Anthropological	3
206/ANT	Perspectives on Women	
206/WST 206	and Men	
ANT 211	Cultural Anthropology	3
ANT 212	Ancient Peoples and	3
	Cultures	
ANT 300	Human Variation	3
ANT 301	Human Origins	3
ANT 302	Primate Behavior and	3
	Ecology	
ANT 303	Human Osteology	4.5
ANT 305	Forensic Anthropology	3
ANT 306	Survey of Forensic Science	3
ANT 307	The Anthropology of	3
	Growth	
ANT 309	Human Genetics	3
ANT 310	Evolution of the Primates	3
ANT 323	Methods and Philosophies	3
	in Paleoanthropology	
ANT 332	Kinship, Marriage, and the	3
	Family	
ANT 334	Mind and Culture	3
ANT 341	Medical Anthropology	3
ANT 360	Humans and the	3 (May be
	Environment	repeated
		for a
		maximum
		of 6.)
ANT	Excavation of the Lehman	4
370/ANT	College Site	
271/ANT 370		

ANT 371	Field and Laboratory	4
	Research in Archaeology	
ANT 489	Independent Research in	2-3 per
	Anthropology	semester
		(maximum
		6).
BIO 181	Anatomy and Physiology I	4
BIO 182	Anatomy and Physiology II	4
BIO 183	Human Biology	4
BIO 184	Plants and People	4
BIO 226	Human Physiology	3.5
BIO 227	Mammalian Histology	4
BIO 228	Mammalian Physiology	4
BIO 230	Microbiology	4
BIO 238	Genetics	4
BIO 241	Evolution, Species, and	3
	Biogeography	
BIO 267	Comparative Anatomy of	4
	Vertebrates	
BIO 268	Vertebrate Embryology	4
BIO 302/BIO	Biogeography	4
302/GEP 302		
BIO 331	Experimental Microbiology	4
BIO 333	Endocrine Physiology	4
BIO 339	Ecology	4
BIO 400	Biological Chemistry	4
BIO 401	Biological Systematics	4
BIO 432	Biological Fine Structure	3
BIO 433/BIO	Techniques in Electron	3
433	Microscopy	
CHE 232	Organic Chemistry Lecture	4
	I	
CHE 233	Organic Chemistry	2
	Laboratory I	
CHE 234	Organic Chemistry Lecture	4
	II	
CHE 235	Organic Chemistry	2
	Laboratory II	
CHE 244	Introduction to	3
	Biochemistry	
CHE 245	Biochemistry Laboratory	1.5
CHE 249	Quantitative Analysis	5
CHE	Introductory Physical	3
332/CHE	Chemistry I	
332/CHE 342		
CHE 334	Introductory Physical	3
	Chemistry II	
CHE 335	Introductory Physical	3
	Chemistry of Biosystems	
	Laboratory	
CHE 444	Biochemistry I	4
CHE 446	Biochemistry II	3
GEH 320	Population Geography	3

GEH 335	Problems in Human Ecology	3
GEO 167	Earth Evolution	3
GEO 242	Introductory Paleontology	4
GEO 303	Stratigraphy and Sedimentology	4
GEO 342	Micropaleontology	4
GEP 204	Basic Mapping: Applications and Analysis	3
GEP 205	Principles of Geographic Information Science	3
GEP 321	Introduction to Remote Sensing	4
PSY 166	General Psychology	3
PSY 217	Child Psychology	3
PSY 248	Introduction to Primate Behavior Studies	3
PSY 310	Psychology of Learning	3
PSY 316	Physiological Psychology	3
PSY 318	Comparative Psychology and Ethology	3

Anthropology Physical Biology and Chemistry BS Prior to Fall 2020

Health Careers Preparation Post-Baccalaureate Certificate Program (HealthBridge)

The Health Careers Preparation Post-Baccalaureate Certificate Program (HealthBridge) is aimed primarily at bachelor degree holders who decided to pursue a career in the health professions (medicine, dentistry, pharmacy, optometry, physical therapy, physician assistant studies, or veterinary medicine) while still undergraduates, but did not complete all of the required prerequisites. For some, this is because they have long had a dream of work in the health professions, but chose to defer it during their undergraduate work only to come back to it later in their lives. For others, they have made the decision to pursue a career in the health professions late in their undergraduate study, perhaps as seniors, leaving them insufficient time to complete their coursework. The program will also serve “career-changers,” that is, bachelor degree holders who did not pursue preparation for the health professions as undergraduates, but make the decision subsequent to graduation.

While this program will accept students from all backgrounds, we believe it is an especially important option for students who are underrepresented in the health professions, and may therefore be more likely to commit to a career in the health professions relatively late in their academic careers.

Students pursuing the Health Careers Preparation Post-

Baccalaureate Certificate must choose one of seven tracks, based on their eventual career goal:

- Bridge to Medicine
- Bridge to Physician Assistant
- Bridge to Physical Therapy
- Bridge to Dental
- Bridge to Pharmacy
- Bridge to Optometry
- Bridge to Veterinary Medicine

Regardless of track, the Health Careers Preparation certificate is divided into two phases, the Foundational phase and the In Depth phase. It is not necessary to complete the Foundational phase in order to apply for admission to the In Depth phase. Students admitted to the Foundational phase must apply for admission to the In Depth phase once they meet those requirements. The certificate is awarded following successful completion of the In Depth phase.

Admission Requirements

Admissions to both the Foundational and In Depth phases are competitive.

The *minimum* standards for admission to the Foundational phase are:

- A bachelor’s degree (or its equivalent) from an accredited college or university
- Cumulative undergraduate grade point average (GPA) dependent on track:
 - o 2.6 for Bridge to Pharmacy
 - o 2.7 for Bridge to Dental or Bridge to Veterinary Medicine
 - o 2.9 for Bridge to Optometry, Bridge to Physical Therapy, or Bridge to Physician Assistant
 - o 3.0 for Bridge to Medicine
- Placement in to MAT 171 (Elements of Precalculus) or higher
- Personal statement indicating suitability and motivation for the program
- Letter of recommendation
- Interview

The *minimum* standards for admission to the In Depth phase are:

- A bachelor’s degree (or its equivalent) from an accredited college or university
- Cumulative undergraduate grade point average (GPA) dependent on track:
 - o 2.8 for Bridge to Pharmacy

o 2.9 for Bridge to Dentistry or Bridge to Veterinary Medicine

o 3.0 for Bridge to Optometry, Bridge to Physical Therapy, or Bridge to Physician Assistant

o 3.1 for Bridge to Medicine

- Placement in to calculus (this can be achieved by completion of MAT 171+108 or MAT 172 with a C or higher)
- Completion of ENG 111 (first semester English composition) or equivalent
- For Bridge to Medicine, Physician Assistant, Dentistry, Pharmacy, Optometry, and Veterinary Medicine: completion of CHE 168 and CHE 169 (second semester General Chemistry lecture and laboratory) or equivalent
- For Bridge to Physician Assistant, Physical Therapy, and Pharmacy: completion of BIO 181 (first semester Anatomy and Physiology with laboratory) or equivalent
- For Bridge to Medicine, Physician Assistant, Physical Therapy, Dental, Pharmacy, and Optometry: completion of PSY 166 (General Psychology) or equivalent
- Personal statement indicating suitability and motivation for the program
- Letter of recommendation
- Interview
- It is not necessary for a student to enroll in the Foundational phase in order to apply for the In Depth phase
- Students admitted to the Foundational phase are not guaranteed admission to the In Depth phase unless they meet the minimum standards specified above

Exceptions to Grade Policy

Students must complete at least 18 credits of the certificate in residence at Lehman during the Foundational and/or In Depth phases. Credits earned prior to matriculation in the certificate cannot be applied to the 18-credit minimum, even if they were earned at Lehman College.

Students must also complete at least 50% of the minimum credits required for their track in residency at Lehman, but this requirement can be satisfied in part by courses taken prior to matriculation in to the Certificate.

Example: the Bridge to Optometry track is 39-61 credits, so at least 19.5 credits (50% of 39, the minimum for the track) must be taken in residency at Lehman. At least 18 of those must be taken after matriculation in to either the Foundational or In Depth phase of the certificate program. The remaining 1.5 credits for residency must have been taken at Lehman, but could have been taken prior to matriculation in to the certificate program; for example, during the course of

completion of a first degree at Lehman College. The balance of the 39 credits required for the Bridge to Optometry track within the certificate could come from any combination of eligible transfer credits, eligible credits taken in residency prior to matriculation in to the certificate program, and credits taken during the certificate program.

Residency in the Certificate

If a student begins the In Depth phase and does not receive C's or greater in all of the courses required for the certificate, they may apply to the Program for a waiver for up to two courses with grades lower than C. If that is not sufficient to allow awarding of the certificate (e.g. they withdrew from one or more required courses), they have one year to take or retake up to 12 credits, paying appropriate tuition, in order to earn the certificate.

Change of Tracks

At any time, students have the option to apply for a change of track. Approval of changes is at the discretion of the program, but is more likely to be granted for a student requesting a change to a goal with lower minimum GPA requirements (e.g. Bridge to Optometry to Bridge to Dentistry) than for those requesting a change to a goal with higher GPA requirements, even if they meet the higher requirements.

Certificate Requirements

Bridge to Medicine Track (38-65 credits)

Prerequisites to the Track (20-26 credits)

Completion of the following courses, or equivalents, are required for the Bridge to Medicine track of the Health Careers Preparation certificate. In many cases, students will have completed some or all of these courses prior to matriculation in to the certificate program; in such cases, those courses may fulfill this requirement but are not counted as credits toward completion of the certificate. Any courses from this list taken subsequent to matriculation in to the certificate program will be counted toward the credits earned for the certificate.

CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
ENG 111	English Composition I	3
ENG 121	English Composition II	3
MAT 171	Elements of Precalculus And	4
MAT 108	Trigonometry Or	2
MAT 172	Precalculus	4

Or
Placement in to MAT 175

PSY 166 General Psychology 3

Certificate Requirements (38-39 credits)

To earn the Certificate in the Bridge to Medicine track, the following courses must be completed, with a grade of C or higher, by the end of the In Depth phase:

BIO 166 Principles of Biology: Cells and Genes 4

BIO 167 Principles of Biology: Organisms 4

CHE 232 Organic Chemistry Lecture I 4

CHE 233 Organic Chemistry Laboratory I 2

CHE 234 Organic Chemistry Lecture II 4

CHE 235 Organic Chemistry Laboratory II 2

BIO 400 Biological Chemistry 4
Or

CHE 444 Biochemistry I 4

PHY 166 General Physics I 5
Or

PHY 168 Physics I for Scientists and Engineers 5

PHY 167 General Physics II 5
Or

PHY 169 Physics II for Scientists and Engineers 5

NSS 350 Pre-Professional Seminar 1

(course
may be
repeated
for a
total of
2)

NSS 350 Pre-Professional Seminar 1

(course
may be
repeated
for a
total of
2)

NSS 352 The Medical School Admissions Process 3

NSS 350 is taken in two semesters: fall and spring.

Bridge to Physician Assistant Track (36*-68 credits)

Prerequisites to the Track (28-34 credits)

Completion of the following courses, or equivalents, are required for the Bridge to Physician Assistant track of the Health Careers Preparation certificate. In many cases, students will have completed some or all of these courses prior to matriculation in to the certificate program; in such cases, those courses may fulfill this requirement but are not counted as credits toward completion of the certificate. Any courses from this list taken subsequent to matriculation in to the certificate program will be counted toward the credits earned for the certificate.

BIO 181 Anatomy and Physiology I 4

BIO 182 Anatomy and Physiology II 4

CHE 166 General Chemistry I 4

CHE 167 General Chemistry Laboratory I 1.5

CHE 168 General Chemistry II 4

CHE 169 General Chemistry Laboratory II 1.5

ENG 111 English Composition I 3

ENG 121 English Composition II 3

MAT 171 Elements of Precalculus And 4

MAT 108 Trigonometry Or 2

MAT 172 Precalculus Or 4

Placement in to MAT 175

PSY 166 General Psychology 3

Certificate Requirements (33-34 credits)

To earn the Certificate in the Bridge to Physician Assistant track the following courses must be completed, with a grade of C or higher, by the end of the In Depth phase:

BIO 166 Principles of Biology: Cells and Genes 4

BIO 167 Principles of Biology: Organisms 4

CHE 232 Organic Chemistry Lecture I 4

CHE 233 Organic Chemistry Laboratory I 2

CHE 234 Organic Chemistry Lecture II 4

CHE 235 Organic Chemistry Laboratory II 2

BIO 400 Biological Chemistry Or 4

CHE 444 Biochemistry I 4

BIO 238 Genetics 4

BIO 331	Experimental Microbiology	4
NSS 350	Pre-Professional Seminar	1
	(course may be repeated for a total of 2)	
NSS 350	Pre-Professional Seminar	1
	(course may be repeated for a total of 2)	

*Additional credits to bring the certificate total to at least 36 must be selected from the list of Additional Eligible Courses below.

NSS 350 is taken in two semesters: fall and spring.

Bridge to Physical Therapy Track (36*-64 credits)

Prerequisites to the Track (25-31 credits)

Completion of the following courses, or equivalents, are required for the Bridge to Physical Therapy track of the Health Careers Preparation certificate. In many cases, students will have completed some or all of these courses prior to matriculation in to the certificate program; in such cases, those courses may fulfill this requirement but are not counted as credits toward completion of the certificate. Any courses from this list taken subsequent to matriculation in to the certificate program will be counted toward the credits earned for the certificate.

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4
BIO 181	Anatomy and Physiology I	4
BIO 182	Anatomy and Physiology II	4
ENG 111	English Composition I	3
ENG 121	English Composition II	3
MAT 171	Elements of Precalculus And	4
MAT 108	Trigonometry Or	2
MAT 172	Precalculus Or Placement in to MAT 175	4
PSY 166	General Psychology	3

Certificate Requirements (23 credits)

To earn the Certificate in the Bridge to Physical Therapy track the following courses must be completed, with a grade of C or higher, by the end of the In Depth phase:

CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
PHY 166	General Physics I Or	5
PHY 168	Physics I for Scientists and Engineers	5
PHY 167	General Physics II Or	5
PHY 169	Physics II for Scientists and Engineers	5

NSS 350	Pre-Professional Seminar	1
	(course may be repeated for a total of 2)	
NSS 350	Pre-Professional Seminar	1
	(course may be repeated for a total of 2)	

*Additional credits to bring the certificate total to at least 36 must be selected from the list of Additional Eligible Courses below.

NSS 350 is taken in two semesters: fall and spring.

Bridge to Dental Track (36*-62 credits)

Prerequisites to the Track 20-26 credits

Completion of the following courses, or equivalents, are required for the Bridge to Dental track of the Health Careers Preparation certificate. In many cases, students will have completed some or all of these courses prior to matriculation in to the certificate program; in such cases, those courses may fulfill this requirement but are not counted as credits toward completion of the certificate. Any courses from this list taken subsequent to matriculation in to the certificate program will be counted toward the credits earned for the certificate.

CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5

CHE 168	General Chemistry II	4			(course
CHE 169	General Chemistry Laboratory II	1.5			may be
ENG 111	English Composition I	3			repeated
ENG 121	English Composition II	3			for a
					total of
					2)
MAT 171	Elements of Precalculus	4			
	And				
MAT 108	Trigonometry	2			*Additional credits to bring the certificate total to at least 36
	Or				must be selected from the list of Additional Eligible Courses
MAT 172	Precalculus	4			below.
	Or				
	Placement in to MAT 175				NSS 350 is taken in two semesters: fall and spring.
PSY 166	General Psychology	3			Bridge to Pharmacy Track (36*-73 credits)
					Prerequisites to the Track (32-38 credits)
Certificate Requirements (35-36 credits)					Completion of the following courses, or equivalents, are
To earn the Certificate in the Bridge to Dental track the					required for the Bridge to Pharmacy track of the Health
following courses must be completed, with a grade of C or					Careers Preparation certificate. In many cases, students will
higher, by the end of the In Depth phase:					have completed some or all of these courses prior to
BIO 166	Principles of Biology: Cells	4			matriculation in to the certificate program; in such cases,
	and Genes				those courses may fulfill this requirement but are not counted
BIO 167	Principles of Biology:	4			as credits toward completion of the certificate. Any courses
	Organisms				from this list taken subsequent to matriculation in to the
CHE 232	Organic Chemistry Lecture I	4			certificate program will be counted toward the credits earned
CHE 233	Organic Chemistry	2			for the certificate.
	Laboratory I		BIO 181	Anatomy and Physiology I	4
CHE 234	Organic Chemistry Lecture II	4	BIO 182	Anatomy and Physiology II	4
CHE 235	Organic Chemistry	2	CHE 166	General Chemistry I	4
	Laboratory II		CHE 167	General Chemistry Laboratory I	1.5
			CHE 168	General Chemistry II	4
			CHE 169	General Chemistry Laboratory	1.5
BIO 400	Biological Chemistry	4		II	
	Or		ENG 111	English Composition I	3
CHE 444	Biochemistry I	4	ENG 121	English Composition II	3
PHY 166	General Physics I	5	MAT 171	Elements of Precalculus	4
	Or			And	
PHY 168	Physics I for Scientists and	5	MAT 108	Trigonometry	2
	Engineers			Or	
			MAT 172	Precalculus	4
PHY 167	General Physics II	5		Or	
	Or			Placement in to MAT 175	
PHY 169	Physics II for Scientists and	5			
	Engineers		MAT 175	Calculus I	4
			PHY 166	General Physics I	5
NSS 350	Pre-Professional Seminar	1			
		(course			Certificate Requirements (34-35 credits)
		may be			To earn the Certificate in the Bridge to Pharmacy track the
		repeated			following courses must be completed, with a grade of C or
		for a			higher, by the end of the In Depth phase:
		total of	BIO 166	Principles of Biology: Cells	4
		2)		and Genes	
NSS 350	Pre-Professional Seminar	1	BIO 167	Principles of Biology:	4

BIO 331	Organisms Experimental Microbiology	4	CHE 168	General Chemistry II	4
CHE 232	Organic Chemistry Lecture I	4	CHE 169	General Chemistry Laboratory II	1.5
CHE 233	Organic Chemistry Laboratory I	2	ENG 111	English Composition I	3
CHE 234	Organic Chemistry Lecture II	4	ENG 121	English Composition II	3
CHE 235	Organic Chemistry Laboratory II	2	MAT 171	Elements of Precalculus And	4
BIO 400	Biological Chemistry Or	4	MAT 108	Trigonometry Or	2
CHE 444	Biochemistry I	4	MAT 172	Precalculus Or	4
PHY 166	General Physics I Or	5		Placement in to MAT 175	
PHY 168	Physics I for Scientists and Engineers	5	MAT 175	Calculus I	4
			PSY 166	General Psychology	3
NSS 350	Pre-Professional Seminar	1 (course may be repeated for a total of 2)	Certificate Requirements (39-40 credits)		
			To earn the Certificate in the Bridge to Optometry track the following courses must be completed, with a grade of C or higher, by the end of the In Depth phase:		
NSS 350	Pre-Professional Seminar	1 (course may be repeated for a total of 2)	BIO 166	Principles of Biology: Cells and Genes	4
			BIO 167	Principles of Biology: Organisms	4
			BIO 331	Experimental Microbiology	4
			CHE 232	Organic Chemistry Lecture I	4
			CHE 233	Organic Chemistry Laboratory I	2
			CHE 234	Organic Chemistry Lecture II	4
			CHE 235	Organic Chemistry Laboratory II	2
			BIO 400	Biological Chemistry Or	4
			CHE 444	Biochemistry I	4
			PHY 166	General Physics I Or	5
			PHY 168	Physics I for Scientists and Engineers	5
			PHY 167	General Physics II Or	5
			PHY 169	Physics II for Scientists and Engineers	5
			NSS 350	Pre-Professional Seminar	1 (course may be repeated for a total of 2)

*Additional credits to bring the certificate total to at least 36 must be selected from the list of Additional Eligible Courses below.

NSS 350 is taken in two semesters: fall and spring.

Bridge to Optometry Track (39-70 credits)

Prerequisites to the Track (24-30 credits)

Completion of the following courses, or equivalents, are required for the Bridge to Optometry track of the Health Careers Preparation certificate. In many cases, students will have completed some or all of these courses prior to matriculation in to the certificate program; in such cases, those courses may fulfill this requirement but are not counted as credits toward completion of the certificate. Any courses from this list taken subsequent to matriculation in to the certificate program will be counted toward the credits earned for the certificate.

CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5

NSS 350	Pre-Professional Seminar	1	2)
		(course may be repeated for a total of 2)	

NSS 350 is taken in two semesters: fall and spring.

Bridge to Veterinary Medicine Track (36*-63 credits)

Prerequisites to the Track (21-27 credits)

Completion of the following courses, or equivalents, are required for the Bridge to Veterinary Medicine track of the Health Careers Preparation certificate. In many cases, students will have completed some or all of these courses prior to matriculation in to the certificate program; in such cases, those courses may fulfill this requirement but are not counted as credits toward completion of the certificate. Any courses from this list taken subsequent to matriculation in to the certificate program will be counted toward the credits earned for the certificate.

CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
ENG 111	English Composition I	3
ENG 121	English Composition II	3
MAT 171	Elements of Precalculus And	4
MAT 108	Trigonometry Or	2
MAT 172	Precalculus Or	4
	Placement in to MAT 175	
MAT 175	Calculus I	4

Certificate Requirements (35-36 credits)

To earn the Certificate in the Bridge to Veterinary Medicine track the following courses must be completed, with a grade of C or higher, by the end of the In Depth phase:

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4
CHE 232	Organic Chemistry Lecture I	4
CHE 233	Organic Chemistry Laboratory I	2

CHE 234	Organic Chemistry Lecture II	4
CHE 235	Organic Chemistry Laboratory II	2
BIO 400	Biological Chemistry Or	4
CHE 444	Biochemistry I	4
PHY 166	General Physics I Or	5
PHY 168	Physics I for Scientists and Engineers	5
PHY 167	General Physics II Or	5
PHY 169	Physics II for Scientists and Engineers	5

NSS 350	Pre-Professional Seminar	1	(course may be repeated for a total of 2)
NSS 350	Pre-Professional Seminar	1	(course may be repeated for a total of 2)

*Additional credits to bring the certificate total to at least 36 must be selected from the list of Additional Eligible Courses below.

NSS 350 is taken in two semesters: fall and spring.

Additional Eligible Courses

Regardless of track, it is necessary to earn no fewer than 36 credits within the certificate. For any track, additional credits to satisfy the certificate, or for purposes of establishing residency at Lehman or in the certificate, may be drawn from the following list of courses, under the guidance and with the approval of a program advisor:

Select from the following list of courses:

BIO 181	Anatomy and Physiology I	4
BIO 182	Anatomy and Physiology II	4
BIO 238	Genetics	4
BIO 331	Experimental Microbiology	4
BIO 400	Biological Chemistry	4
BIO 420	Molecular Biology	4
BIO 435	Neurophysiology	3

BIO 501	Topics in Genetics	4
CHE 232	Organic Chemistry Lecture I	4
CHE 233	Organic Chemistry Laboratory I	2
CHE 234	Organic Chemistry Lecture II	4
CHE 235	Organic Chemistry Laboratory II	2
CHE 444	Biochemistry I	4
CHE 446	Biochemistry II	3
CHE 447	Biochemistry Laboratory	3
DST 311	Social Science Perspectives on Health and Disability	4
DST 336/DST 336/PHI 336	Disability, Ethics & the Body	3
ECO 167	Introduction to Microeconomics	3
ENW 307	Health and Science Writing	3
MAT 108	Trigonometry	2
MAT 128	Foundations of Data Science	3
MAT 132	Introduction to Statistics	4
MAT 155	Calculus I Laboratory	1
MAT 171	Elements of Precalculus	4
MAT 172	Precalculus	4
MAT 175	Calculus I	4
PHI 341	Medical Ethics	3
PHI 434	Neuroethics	3
PHY 166	General Physics I	5
PHY 167	General Physics II	5
PHY 168	Physics I for Scientists and Engineers	5
PHY 169	Physics II for Scientists and Engineers	5
POL 211	Public Policy	3
POL 318	The Politics of Health	3
PSY 166	General Psychology	3
PSY 217	Child Psychology	3
PSY 218	Psychology of Adolescence	3
PSY 219	Psychology of Adulthood and Aging	3
SOC 166	Fundamentals of Sociology	3

The City and the Humanities

Director: Joseph McElligott (Carman Hall, Room 352)

The City and the Humanities offers a program of courses that explore the relations between an urban environment, the humanities, and the arts. Students in this program attend weekly lectures, screenings, and performances on campus, visit a variety of cultural institutions in New York City, and engage in supervised, humanities-related internships.

Humanities Minor

Students may declare a minor in the humanities with the following:

12-credit option:

HUM 250	The City and the Theatre And/Or	3
HUM 255	Foundations in the City and the Humanities	3
HUM 355	Selected Topics in The City and the Humanities	3
HUM 450	Selected Problems in the Humanities	3

HUM 250, HUM 255: Six credits from HUM 250 and/or HUM 255 (multiple-section, variable-topic courses).

Classical Civilization and the Classical Tradition

Classical Civilization and the Classical Tradition (Interdisciplinary Minor)

The Minor in Classical Civilization and the Classical Tradition provides students with an interdisciplinary approach to the literature, culture, history, politics, philosophy, mythology, and archaeology of the ancient Greek and Roman civilizations. The program is offered as a minor field that complements a wide variety of majors. It is particularly valuable for students whose major field of study is in the Arts and Humanities, including English, History, Languages and Literatures, and Philosophy, as well as for certain majors in the Social Sciences, including Anthropology, Political Science, and Psychology. Ancient Greek and Latin languages are not required for the minor.

Degree Requirements

Students who minor in Classical Civilization and the Classical Tradition conduct their course of study in consultation with the Minor's Coordinator. They satisfy the College requirement of a minor field by taking four courses (12 credits), at least two of which must be at the 300-level.

All students take a single introductory three-credit course:

Introduction to Classical Civilization and the Classical Tradition (3 credits):

HIS 246/HIS 246/HIS 276	Civilizations of the Ancient World	3
Or		
ACU 266	Classical Myth and the Human Condition	3

Electives are divided into two broad categories of courses (9 credits):

Students choose one course from Category I, one course from category II, and a third course from either category.

I. Classical Literature and Classical Culture

ACU 305	Greek Literature in Translation	3
ACU 307	The Greek and Roman Epic in English Translation	3
ACU 308	Greek and Roman Tragedy in English Translation	3
HIA 311/ACU 311/HIA 311	Women in Antiquity	3
HIA 314	Classical Myth and Society	3

Students who have completed ACU 266 will not receive credit for HIA 314

II. Classical History and Classical Archaeology

HIA 306	History of Religions in the Ancient World	3
HIA 316/ACU 316/HIA 316	Greek Archaeology of the Classical Period	3
HIA 318/ACU 318/HIA 318	Roman Archaeology and Topography	3
HIA 320	Greek History	3
HIA 321	History of Rome	3

Students may replace an elective with ACU 350 and/or HIA 350 (Special Topics) or ACU 381 and/or HIA 381 (Individual Tutorial), but only if their chosen course is not offered in a given semester.

Comparative Literature (Interdepartmental)

Director: Thomas Ihde, Languages and Literatures

Advisory Council: Carmen Esteves, Languages and Literatures; Bret Maney, English; Thomas Spear, Languages and Literatures

Participating Departments: Africana Studies; Anthropology; English; History; Languages and Literatures; Latin American and Puerto Rican Studies; Philosophy

Participating Programs: Italian-American Studies, Women's Studies

The interdepartmental major in Comparative Literature leads to the Bachelor of Arts degree. Comparative Literature investigates literary works from the perspective of more than one national literature; works are often studied in conjunction with other intellectual disciplines, such as anthropology, the arts, history, and philosophy. Traditionally, comparatists have focused on literary movements, genres, and historical periods, and on the history of literary themes and ideas, primarily within the context of Western literatures. More recently,

comparatists have become interested in emergent and non-Western literatures, in minor genres like biography, in the history of education and the theory of reading, in women's studies, and in literary theory.

Curricular Program and Design

The Comparative Literature major begins with a pair of foundation courses in world classics, studied either historically or by genre. An introductory course in the methods of literary study and criticism is provided by the department of the student's principal language specialization. In addition to a selection of electives chosen from participating departments and programs, the student must take at least four literature courses above the 200 level in which works are read in the original language, with no more than two of these courses in any language.

Courses should be selected to provide a coherent program of study focused around a particular historical period, literary genre, or geographical area. Students have a great deal of flexibility in selecting coherent courses from participating departments and programs. Each student will be assigned an adviser from one of the participating departments or programs who will help define and coordinate the student's program of study. A Comparative Literature seminar completes the program.

Comparative Literature, B.A. (30-31 Credit Major)

The required credits are distributed as follows:

Credits (30-31)

9 credits in foundation courses:

In order to gain a shared background in Western and non-Western literary classics, all students must select one of two linked pairs of foundation courses, and IDW 213. The first pair is organized by historical periods and consists of IDW 211 and IDW 212. The alternate pair is organized by literary genre and consists of ENG 347 and ENG 348. For course descriptions, see the descriptions later in this Bulletin under English and World Classics.

3-4 credits in Introduction to Literary Studies:

The student must take one of the following courses on the methods of literary study:

ENG 300	Unsettling English Studies: Introduction to the Major	4
SPA 300	Introduction to Literary Studies	3
FRE 300	Introduction to French Literature and Literary Criticism	3
IRI 300	Introduction to Literary Studies Or	3
ITA 300	Introduction to Literary Studies	3

Students should select a course directly relevant to the advanced literature courses chosen in the 9-credit section below. For example, students planning to take 300- or 400-level courses in English Literature and Spanish Literature should take either ENG 300 or SPA 300 to satisfy this requirement.

6 credits in language courses:

The two courses may be chosen from:

SPV 246/LNG	Introduction to Linguistics	3
246/SPV 246		
ENG 304/LNG	The Structure of Modern	3
318/ENG 304	English	
FRE 310	Comparative Grammar	3
ITA 310	Comparative Grammar	3
POR 310	Comparative Grammar	3
SPA 310	Comparative Grammar	3
GER 310	Comparative Grammar	3
RUS 310	Comparative Grammar	3
JAL 310	Comparative Grammar	3
IRI 3100	Comparative Grammar	3

9 credits in Elective Courses:

The three courses must be chosen from advanced 300-400-level literature courses read in the original language. These courses must be in no more than two languages. Students should select courses that enable them to concentrate on a particular historical period (e.g., the nineteenth century), a literary genre (e.g., the novel), or a geographical area (the Caribbean, Latin America, etc.). Honors students must take CLT 481 as one of their three elective courses. For students minoring in Early Childhood and Childhood Education, one of these elective courses must deal with children's literature.

3 credits in Seminar:

CLT 360	Variable Topics in Comparative Literature	3
---------	---	---

Comparative Literature Minor

Requirements for the Minor in Comparative Literature (12 Credits)

The minor in Comparative Literature allows a student to build an interdisciplinary concentration of courses focused on a specific historical period, literary genre, or geographical area.

Literature majors

Literature majors may use the minor to study works in a second language read in the original language or in translation, or to enrich their study of literature in their major by adding relevant courses from participating departments and programs, such as African and African American Studies, Anthropology, English, History, Languages and Literatures, Philosophy, Theatre, or Women's Studies.

Literature majors are encouraged to take:

ENG 463	Seminar in Literature	3
---------	-----------------------	---

Non-literature majors

Non-literature majors may use the minor as a way of studying literature, read in the original language or in translation, from both literary and interdisciplinary perspectives.

Non-literature majors are encouraged to take

IDW 211/CLT	Classics of the Western World:	3
211/IDW 211	Ancient and Medieval	
	And	
IDW 212/CLT	Classics of the Western World	3
212/IDW 212	II: Renaissance and Modern	
	Or	
ENG 347	Western Traditions--Narrative	3
	And	
ENG 348	Western Traditions--Drama	3

To satisfy requirements for the Comparative Literature minor

Students must complete four courses (12 credits) selected from the participating departments and programs two at the 200 level or above, and two at the 300 level or above. At least two of these courses (including one course above the 200 level) must be literature courses. The minor must include works from more than one national literature. Courses should be selected to allow concentration on a specific historical period, literary genre, or geographical area. One course may be from the student's major department, but the credits must be separate from credits counted for the major. Each student's plan of study must be approved by a Comparative Literature adviser.

Honors in Comparative Literature

Honors in Comparative Literature may be conferred on a student who has satisfied the College's requirement for departmental honors at the time of graduation and has completed CLT 481.

Computer Science

Chair: Brian Murphy (Gillet Hall, Room 211).

Department Faculty: Distinguished Professor: Victor Pan; Associate Professors: Matthew Johnson, Gwang Jung, Brian Murphy; Assistant Professors: Itai Feigenbaum, Mingxian Zhong, Liang Zhou; Lecturers: Sameh Fakhouri, Steven Fulakeza, Eva-Maria Sofianos; Math and Computer Science Learning Center Coordinator: Loric Madramootoo; IT Academic Technology Coordinator: Marvin Florin; Academic Advisor: Tanja Haxhoviq

The Department of Computer Science offers undergraduates degree programs in Computer Science and Computer Information Systems and the opportunity to select a minor in

these fields. Students can pursue programs leading to the Bachelor of Arts degree in Computer Science and to the Bachelor of Science degree in either Computer Science or Computer Information Systems. These programs prepare students both for graduate study and for careers in industry, education, government, and the non-profit sector.

Computer Science, B.A. (43-46 Credit Major)

There are twelve required courses:

Courses

MAT 175	Calculus I	4
MAT 176	Calculus II	4
MAT 313	Elements of Linear Algebra	4
CMP 167	Programming Methods I	3
CMP 168	Programming Methods II	4
CMP 232	Elementary Discrete Structures & Applications to Computer Science	4
CMP 334	Computer Organization	4
CMP 338	Data Structures and Algorithms I	4
CMP 339	Programming Languages	4
Or		
CMP 426	Operating Systems	4
CMP 405	Introduction to Networks	3
Or		
CMP 420	Database Systems	4
CMP	Two advanced CMP electives	

Two advanced CMP electives: At 300- or 400-level. MAT 226 can be used as one of these electives.

Notes:

1. All students, particularly those considering graduate work, are advised to take more upper-level Computer Science courses. (The list above is only the minimum required for graduation.)
2. For Departmental honors, see one of the advisers in the Department of Mathematics and Computer Science.

Computer Science, B.S. (57-61 Credit Major)

There are sixteen required courses:

Courses

MAT 175	Calculus I	4
MAT 176	Calculus II	4
MAT 313	Elements of Linear Algebra	4
CMP 167	Programming Methods I	3
CMP 168	Programming Methods II	4
CMP 232	Elementary Discrete Structures & Applications to Computer	4

	Science	
CMP 334	Computer Organization	4
CMP 338	Data Structures and Algorithms I	4
CMP 405	Introduction to Networks	3
CMP 420	Database Systems	4
CMP 426	Operating Systems	4
	Four Advanced CMP courses	
MAT	One Advanced MAT course	

Four Advanced CMP courses: 300- or 400-level CMP courses are required. MAT 226 or PHY 305 can be substituted for one of these courses.

One Advanced MAT course: One 300- or 400-level MAT course is required, not including MAT 300, MAT 301, or MAT 348. CMP 332, CMP 416 can be used for this course.

Note: All students, particularly those considering graduate work, are advised to take more upper-level Computer Science courses, particularly CMP 339 and CMP 416.

Computer Information Systems, B.S. (55-57 Credit Major)

In Computer Science:

Required Courses (19 credits):

CIS 166	Computer Programming for Information Processing I	3
CIS 211	Computer Information Systems	4
CIS 212	Microcomputer Architecture	3
CIS 244	Introduction to Database Management	3
CIS 331/CIS 349/CIS 331	Network Introduction	3
CIS 344	Database Design and Programming	3

Elective Courses (6-8 credits):

Two additional courses chosen from the 200-level (or higher)

CIS courses or from:

CGI 221/ART 221/CGI 221	Applied Imaging and Applications to the World Wide Web I	3
CGI 321/ART 321/CGI 321	Computer Modeling and Design I	3
CGI 421/ART 421/CGI 421	Computer Animation I	3
CMP 168	Programming Methods II	4

One of the courses must be a 300- (or 400-) level CIS course.

In Mathematics:

Required Courses (15 credits):

MAT 132	Introduction to Statistics	4
MAT 174	Elements of Calculus	4
MAT 301	Applied Statistics and Computer	3

MAT 348	Analysis for Social Scientists Mathematical Methods for Management	4
---------	--	---

MAT 174: Students considering graduate work should take MAT 175, MAT 176 instead of MAT 174.

In Economics:

Required Courses (9 credits):

ECO 166	Introduction to Macroeconomics	3
ECO 167	Introduction to Microeconomics	3

ACC 185	Introduction to Accounting for Non-Accounting Majors	3
	Or	

ACC 171	Principles of Accounting I	3
---------	----------------------------	---

Further Electives (6 credits):

Students must choose two courses from the following:

CIS	One 200-level CIS course	
PHI 221	Ethical Issues in Computing and Technology	3
POL 299	Law, Computers, and the Internet: The Politics of Information Technology	3

One 200-level CIS course: Or higher, for 3 credits.

At least one of PHI 221 and POL 299 must be chosen.

For departmental honors, see one of the advisors in the Department of Mathematics and Computer Science.

Minors

Computer Science Minor (12 credits)

This minor includes only CMP courses:

General requirement:

12 credits at the 200-level or above, with at least 6 at 300-level or above.

All grades must be C- or better.

Students not majoring in Mathematics must include:

CMP 334	Computer Organization	4
CMP 338	Data Structures and Algorithms I	4

Students majoring in Mathematics, who elect to have a minor in Computer Science, must include:

CMP 332	Numerical Methods	3
	Or	
CMP 338	Data Structures and Algorithms I	4

Cannot include any courses used to satisfy the Mathematics major.

Computer Applications Minor (13-16 credits)

The minor includes only CIS courses, consisting of:

CIS 211	Computer Information Systems	4
	Two courses at the 200-level	
CIS	One CIS course at the 300 level	

All grades must be C- or better.

Two courses at 200-level: Two courses chosen from the 200 level CIS courses or higher.

Counseling, Leadership, Literacy, and Special Education

Chair: Stuart Chen-Hayes (Carman Hall, Room B20)

Department Faculty: Professors: Stuart Chen-Hayes, Harriet Fayne, Barbara Gottlieb, Gaoyin Qian; Associate Professors: Janet R. DeSimone, Faith Deveaux, Danielle Magaldi, Limor Pinhasi-Vittorio, Rosa Rivera-McCutchen, Laura Roberts; Assistant Professors: Alyse Anekstein, Jennifer Van Allen; Lecturers: Sheila Blachman, Julia, Hood

The Department of Counseling, Leadership, Literacy, and Special Education offers programs leading in the following areas: counselor education (school counseling), special education, educational leadership (school building and district leader), organizational leadership (higher education, non-profit, corporate, hospital leadership) and literacy. Students interested in such coursework and in preparation for New York State certification and New York City licensure should contact a faculty advisor in the department. Programs are also offered in dual certification for Childhood and Special Education, Early Childhood and Special Education, Literacy and Special Education, and advanced certification in Special Education. Several programs also have a bi-lingual option and students need to speak with an advisor for further information.

Teacher Certification

Teacher certification and licensure is carried out by the New York State Education Department. The public schools of the City of New York have separate licensure procedures and requirements. *At both the State and City levels, certification requirements are subject to change without notice.* The information about certification contained in this Bulletin is the most up-to-date available at press time, but may become obsolete after publication. It is the responsibility of the student or graduate to consult periodically with a Departmental advisor to keep informed about the latest certification requirements.

General Family and Consumer Studies Education:

Areas of Study

FCS 161	Orientation to Family and Consumer Studies	2
FCS 301	Demonstration Materials and Techniques	2
FCS 374	Consumer Advocacy	3
FCS 452	Current Problems in Family and Consumer Studies	2
FCS 453	Trends in Family and Consumer Studies	3

FCS 161, FCS 301, FCS 374, FCS 452, FCS 453: Not expected to be offered in 2015-2017.

Housing, Family Economics, and Consumer Studies

FCS 180	Modern Housing	3
FCS 219	Consumer Problems in Housing	3
FCS 314	Household Equipment	3
FCS 315	Home and Cooperative Ownership and Tenancy	3
FCS 316	Home Management	3
FCS 317	Consumption Behavior	3
FCS 318	Management of Housing for the Elderly	3
FCS 449	Housing Management and Maintenance	3
FCS 472	Field Study in Housing Management	2
FCS 473	Problems in Home Management	3
FCS 489	Seminar in Housing Management	2

FCS 180, FCS 219, FCS 314, FCS 315, FCS 316, FCS 317, FCS 318, FCS 449, FCS 472, FCS 473, FCS 489: Not expected to be offered in 2015-2017

Clothing, Textiles, and Related Arts

FCS 102	Clothing I	3
FCS 120	Historic Costume	2
FCS 121	Clothing in Twentieth-Century Society	2
FCS 124	Family Clothing	3
FCS 125	Textiles I	2
FCS 126	Interior Decoration and Design	2
FCS 202	Clothing II	3
FCS 227	Textiles II	3
FCS 228	Textile Design	2
FCS 229	Weaving I	2
FCS 302	Special Problems in Clothing Design	2
FCS 370	Field Study in Clothing and Textiles	2

FCS 102, FCE 120, FCS 121, FCS 124, FCS 125, FCS 126, FCS 202, FCS 227, FCS 228, FCS 229, FCS 302, FCS 370: Not expected to be offered in 2015-2017

Family Relations and Child Development

FCS 271	Child Development	3
FCS 307/WST 317/FCS 307	Family Relationships	3
FCS 317	Consumption Behavior	3
FCS 372/FCS 372/WST 372	Family Relationships: Field Study and Seminar	2
FCS 403	Introduction to Counseling for Family Living	3
FCS 485	Housing Management and Maintenance	3
FCS 492	Honors in Family and Consumer Studies	One semester, 2-3 (maximum 4-6).

FCS 493	Special Projects in Family and Consumer Studies	3
---------	---	---

FCS 271, FCS 317, FCS 372, FCS 403, FCS 485, FCS 492, FCS 493: Not expected to be offered in 2015-2017

Data Science Methods and Applications

Coordinator: Elin Waring (Sociology)

Steering Committee: Juan DelaCruz (Economics and Business), Itai Feigenbaum (Computer Science), Jennifer Laird (Sociology), Martha Lerski (Library), Juliana Maantay (Earth, Environmental, and Geospatial Sciences), Elia Machado (Earth, Environmental, and Geospatial Sciences), Megan Owen (Mathematics), Nikolaos Papanikolaou (Economics and Business), Naomi Spence (Sociology), Maurice Vann (Social Work).

Data Science Methods and Applications (Interdisciplinary Minor)

Interdisciplinary Minor in Data Science Methods and Applications offered by the Sociology department.

Program Description: 15 to 18-Credit Minor in Data Science Methods and Applications

The 15 to 18-credit interdisciplinary minor in data science methods and applications is appropriate for students in majors across various disciplines who are interested in learning methods for working with big, complex, and/or "messy" data and application to real world topics. The minor provides students with interdisciplinary course work focused on obtaining, managing, analyzing, interpreting and communicating about data in all of its forms. Students will

learn Python and R programming, as well as other languages used by data scientists.

Degree Requirements

Group 1 Required (9 Credits)

MAT 128	Foundations of Data Science	3
MAT 328	Techniques in Data Science	4
SOC 348	Reasoning with Data	3

Students with extensive computer programming or mathematics experience may, with the approval of the course instructor or the program coordinator, substitute an additional data science elective for MAT 128.

MAT 128: (prerequisite: department permission.)

MAT 328: (prerequisite: MAT 128)

SOC 348: (prerequisite: Completion of College Math Requirement; PHI 169 or a 200 level Sociology course; or by permission of Department.)

Group 2 (3-5 Credits)

Disciplinary Data Analysis Course

Select as appropriate:

SOC 345	Quantitative Analysis of Sociological Data	4
PSY 226	Statistical Methods in Psychology	4
GEH 245	Introduction to Quantitative Methods of Geography	3
ECO 302	Economic Statistics	3
BBA 303	Business Statistics I	3
BIO 240	Biostatistics	3
HSD 269	Fundamentals of Biostatistics for Health Professionals	3
MAT 301	Applied Statistics and Computer Analysis for Social Scientists	3
MAT 327	Statistical Inference	4
MAT 330	Probability and Statistics	4

SOC 345: (prerequisite: SOC 301 with a grade of C- or better)
PSY 226: (prerequisite: PSY 166; and MAT 132 or MAT 172 or MAT 174 or MAT 175)

ECO 302: (prerequisite: ECO 166; and MAT 132 or MAT 171 or MAT 172 or MAT 174 or MAT 175)

BBA 303: (prerequisite: MAT 132 or MAT 171 or MAT 172 or MAT 174 or MAT 175)

BIO 240: (prerequisite: BIO 166 and BIO 167 and MAT 175)

HSD 269: (prerequisite: MAT 132 or its equivalent, or demonstrated competence in database manipulation, spreadsheet calculations, and word processing)

MAT 301: (prerequisite: MAT 132 and MAT 171)

MAT 327: (prerequisite: MAT 176)

MAT 330: (prerequisite: MAT 176), or another course approved by the program.

Group 3 Elective (3-4 credits)

One elective from this list:

SOC 339	American Demography	4
GEP 330	Spatial Statistics and Advanced Quantitative Methods in Geography	3
GEP 360	Geovisualization and Analytic Cartography	4
GEP 205	Principles of Geographic Information Science	3
GEP 321	Introduction to Remote Sensing	4
GEP 380	Emerging Methods and Techniques in Geographic Information Science (GISc)	3
ECO 402	Econometrics	4
CMP 414	Artificial Intelligence	4
MAT 327	Statistical Inference	4
MAT 349	Operations Research	4
CMP 446	Computational Tools for Bioinformatics	4
DAT 310	Data Visualization	3
GEH 320	Population Geography	3

SOC 339: (prerequisite: SOC 301)

GEP 330: (prerequisite: GEP 204 or GEP 205 or instructor's permission. An introductory course in descriptive statistics is recommended.)

GEP 360: (prerequisite: GEP 204 or GEP 205 or Department Permission)

ECO 402: (prerequisite: ECO 302 or BBA 303)

CMP 414: (prerequisite: CMP 338)

MAT 327: (prerequisite: MAT 176)

MAT 349: (prerequisite: MAT 313 and CMP 167)

CMP 446: (prerequisite: BIO 166, CMP 167, and CMP 232)

Or course approved by the program. Independent studies must present a proposal that explains the relationship to data science.

Data Science students should be aware that graduate programs in Data Science, Biostatistics, and Data Analytics generally expect that students have completed at least Calculus 1, Linear Algebra, and Programming 1 (CMP 167) at the undergraduate level.

Disability Studies

Coordinator: Julie Maybee, Philosophy

Steering Committee: Hyangmi Kim, Health Sciences; Julie Maybee; Olivia Moy, English; Esther Wilder, Sociology

The minor in Disability Studies will provide students with a holistic and interdisciplinary approach to disability issues that is focused on the experiences of people with disabilities as they work toward full participation in society. The minor will be particularly valuable for those students who are majoring in fields that may lead to employment in service professions such as Health Education and Promotion, Health Services Administration, Nursing, Recreation Education (especially Therapeutic Recreation), Social Work, Sociology, Speech, Language, and Hearing Sciences, and Psychology.

Disability Studies (Interdisciplinary Minor)

Degree Requirements

The minor in Disability Studies consists of four courses (12-13 credits), at least two of which must be at the 300-level or higher.

9-10 credits. In Disability Studies, any three DST courses.

3 credits. An elective chosen from the following list of courses:

REC 221	Introduction to Therapeutic Recreation Service	3
REH 220	Introduction to Developmental Disabilities	3
REH 240	Principles of Psychiatric Rehabilitation	3
POL 318	The Politics of Health	3
SOC 305	Sociology of Health Care	3
SPV 101	Introduction to American Sign Language I	3
SPV 102	Introduction to American Sign Language II	3

Disability Studies Interdisciplinary Minor Prior to Fall 2021

Early Childhood and Childhood Education

Department Chair: Nancy Dubetz (Carman Hall, Room CA-B07)

Program Coordinators: Jennifer Collett (Childhood, Minor to Masters), Michelle Washington (Early Childhood, Minor to Masters), Frances Rofrano (Minor)

Department Faculty: Professors: Nancy Dubetz, Anne Rothstein; Associate Professors: Cecilia Espinosa, Anne Marie Marshall, Zoila Morell, Frances Rofrano, Alexandria Lawrence Ross, Andrea Zakin; Assistant Professors: Jennifer Collett, Yasmin Morales-Alexander, Celestial Wills-Jackson;

Sub-Assistant Professor: Melissa Garcia; Lecturers: Kym Vanderbilt, Michele Washington

The Department of Early Childhood and Childhood Education (ECCE) offers a 12-credit minor for any student who is interested in learning about the field of urban education, as well as teaching certification programs for the student who plans to seek a Lehman endorsement for an initial teaching certificate. Four programs offer initial teaching certificates: Early Childhood; Early Childhood-Integration of Bilingual Extension; Childhood; and Childhood-Integration of Bilingual Extension.

The Lehman Urban Transformative Education (LUTE) Conceptual Framework that guides these teacher education programs was developed by faculty to provide a philosophical base for the faculty's work as teacher educators. It delineates what is valued by the Department as well as how teaching practices within the Department reflect those values. The Department's mission is to prepare competent, qualified, ethical, and reflective professionals for service to diverse communities. Within CUNY's tradition of access and excellence and Lehman's mission of service to the urban community, it is expected that teachers who study in these programs will bring respect for knowledge, diversity, caring, and justice to their work with children, families, colleagues, and local organizations that comprise the Lehman community.

Early Childhood and Childhood Education Minor

Program Requirements for ECCE Minor

The Department of Early Childhood and Childhood Education offers a 12 credit minor track available to all students who wish to complete an ECCE minor, regardless of whether or not they will seek teaching certification in Early Childhood or Childhood Education. The 12 credit minor is open to all students.

In addition, for students who wish to pursue NYS initial teaching certification, an additional two tracks are offered that lead to certification upon completion. These tracks are called Minor to Masters programs and students may apply once they have completed the 12 credit minor.

ECCE Minor:

12 Credits of 300-Level ECCE Coursework:

ECE 301	The Child in Historical, Political and Sociocultural Contexts: Child Study and Development—Birth to Grade 6	3
ECE 302	Children, Families, Communities, and Schools in Historical, Political and Sociocultural Contexts—Birth to Grade 6	3

ECE 304	Foundations of Early Language and Literacy Development, Birth to Grade 2	3
ECE 311	The Teaching Profession in Historical, Political and Sociocultural Contexts —Birth to Sixth Grade	3

NOTE: ECE 301, ECE 302, ECE 311: May be taken in any order; however, to register for ECE 304, students must declare the minor in Early Childhood and Childhood Education and have completed ECE 301.

Students Interested in Pursuing NYS Initial Teaching Certification

The Department of Early Childhood and Childhood Education offer two minor tracks that allow students to complete a minor in ECCE education as well as many of the prerequisites required for graduate programs that lead to NYS initial teaching certification:

Minor to Masters Track 1: Childhood Education (Grades 1-6) or Childhood Education (Grades 1-6) with a Bilingual Extension

Minor to Masters Track 2 Early Childhood Education or Early Childhood Education with a Bilingual Extension

These particular programs are referred to as "Minor to Masters" programs and offer qualified students the opportunity to earn both a Bachelor of Arts degree and a Master of Science in Education degree in five and a half years. At the undergraduate level, students can meet many of the requirements for NYS teaching certification in childhood or in early childhood education while completing their bachelor's degree. Upon satisfactory completion of the minor, they may apply for a "fast track" 30 credit graduate program specifically designed for them that will lead to state teaching certification if they meet program continuation requirements.

Each Minor to Master's track is composed of the 12 credit ECCE minor, four 400 level courses (12 credits) completed during the senior year of the undergraduate program, 46-66 credits of NYS and college liberal arts requirements, and an academic major (variable credits). Students who complete these requirements at the undergraduate level and maintain a minimum 3.0 GPA will be qualified to pursue a 30 credit graduate program in either Childhood Education with or without a Bilingual Extension or a 30 credit graduate program in Early Childhood Education with or without a Bilingual Extension.

Students must meet the following requirements to be admitted into a Minor to Masters program:

- Completion of ECE 301, ECE 302, ECE 304 and ECE 311 with minimum 3.0 grade point average
- Senior status with a minimum overall grade point average of 3.0 for all undergraduate coursework,
- Submission of SAT or ACT scores
- Satisfactory completion of undergraduate 300 level minor courses and NY State liberal arts requirements,
- Two letters of recommendation, one must be from the student's ECE 304 instructor,
- An interview with program faculty and an interview in Spanish for students who will be taking the bilingual extension,
- An on-site writing sample in English, and
- Completion of the College's general education requirements (30 credits) in the Liberal Arts and Sciences in at least five NYSED general core categories with a grade of C or better in each course. NOTE: Most of these requirements are met by completing courses that fulfill the College's general education requirements; students must consult with ECCE program coordinators for approved courses in each area:

Required NYSED core liberal arts categories (all are required):

- Written Expression: two courses in English (generally ENG 111 and ENG 121 or equivalent)
- Math: Two courses in Mathematics approved by an ECCE program coordinator
- Scientific Processes: Two courses in natural science
- Concepts of Social Science & History: Two courses in the Social Sciences

Optional NYSED liberal arts core categories (coursework in at least one optional category is required). NYSED optional core categories include: foreign language, artistic expression, humanities, communication, and information retrieval.

ECCE Minor to Masters Track 1: ECCE Minor for Students Interested in Pursuing Certification in Childhood Education or Childhood Education with a Bilingual Extension

Students who enroll in this track must complete 12 Credits of 400-Level ECCE Coursework in the senior year:

ECE 435	Bilingualism for Classroom Teachers, Birth to Grade Six	3
ECE 427	Methodology of Teaching English to Speakers of Other Languages, Birth to Grade Six	3
ECE 436	The Young Child and the Arts, Birth to Grade 2	3
ECE 438	The Young Child and Music,	3

Birth to Grade 2

ECCE Minor to Masters Track 2: Students Interested in Pursuing a Certification in Early Childhood Education or Early Childhood Education with a Bilingual Extension

Students who enroll in this track must complete 12 Credits of 400-Level ECCE Coursework in the senior year:

ECE 435	Bilingualism for Classroom Teachers, Birth to Grade Six	3
ECE 427	Methodology of Teaching English to Speakers of Other Languages, Birth to Grade Six	3
ECE 436	The Young Child and the Arts, Birth to Grade 2	3
ECE 438	The Young Child and Music, Birth to Grade 2	3

Early Childhood and Childhood Education Minor Prior to Fall 2020

Earth, Environmental, and Geospatial Sciences

Department Chair: Hari Pant (Gillet Hall, Room 309-A)

Department Faculty: Professors: Irene Leung, Juliana Maantay; Associate Professors: Yuri Gorokhovich, Elia Machado, Hari K. Pant, Heather Sloan; Senior College Laboratory Technician: Brian Morgan

Departmental offerings cover a broad spectrum of the social and natural sciences. These offerings integrate the earth sciences and studies of the human environment over a wide range, from urban geography to ocean sediments. Environmental issues, such as garbage disposal and recycling options, earthquake and volcanic hazards, coastal erosion, past extinction of life, and global warming, are important parts of various courses listed below.

Earth Science, B.A. (30 Credits)

This program is recommended for teacher education students.

The required credits are distributed as follows:

22 credits in required courses:

GEO 101	Dynamic Earth	3
GEO 102	Dynamic Earth Laboratory	1
GEO 167	Earth Evolution	3
GEO 168	Earth Evolution Laboratory	1
GEO 228	Weather and Climate	3
GEO 229	Weather and Climate Laboratory	1
GEO 245	Earth Materials	4
GEO 4500	Topics in Earth Science	2
AST 117	Astronomy of Stellar Systems	4

8 credits to be chosen from the following courses:

GEO 236	Environmental Geology	4
GEO 340	Natural Hazards and Disasters: A Multidisciplinary Approach And	3
GEO 341	Natural Hazards and Disasters Laboratory	1
GEO 345	Environmental Hydrology	4
GEO 350	Topics in regional geology and mapping techniques	4
GEO 448	Plate Geotectonics	4
GEO 490	Honors in Geology	One semester; 2, 3, or 4 (may be repeated for a maximum of 6.)

Other courses may be substituted with department permission.

Earth Science Minor

Minor in Earth Science (16 credits)

A Minor in Earth Science consists of the following:

GEO 101	Dynamic Earth	3
GEO 102	Dynamic Earth Laboratory	1
GEO 245	Earth Materials	4
Two courses in Earth Sciences		

Two Earth Sciences courses: At the 300 or 400 level.

Earth Science Certificate Program

Certificate Program in Earth Science (30 Credits)

The Certificate in Earth Science is structured to provide a strong foundation in Earth science content. The program is intended for certified teachers of other science areas who plan to obtain a second certification in Earth Science as well as holders BA or BS degrees who seek a foundation in Earth science before applying to a Masters of Education program.

22 Credits in Required Courses:

GEO 167	Earth Evolution	3
GEO 168	Earth Evolution Laboratory	1
GEO 228	Weather and Climate	3
GEO 229	Weather and Climate Laboratory	1
GEO 245	Earth Materials	4
GEO 301	Earth Science for Educators	4
GEO 4500	Topics in Earth Science	2
AST 117	Astronomy of Stellar Systems	4

8 Credits to be chosen from the following:

GEO 236	Environmental Geology	4
---------	-----------------------	---

GEO 340	Natural Hazards and Disasters: A Multidisciplinary Approach	3
GEO 341	Natural Hazards and Disasters Laboratory	1
GEO 345	Environmental Hydrology	4
GEO 370	Regional Field Geology and Mapping Techniques	4
GEO 448	Plate Geotectonics	4
GEO 490	Honors in Geology	One semester; 2, 3, or 4 (may be repeated for a maximum of 6.)

Other courses may be substituted with department permission.

Environmental Science, B.S. Interdisciplinary Program

The Interdisciplinary Program in Environmental Science, B.S. is a 46-credit major.

The core of the interdisciplinary undergraduate program in Environmental Science is a sequence of basic and advanced science courses from four participating science departments. Students select a specialization area in Ecology, Urban Environmental Management, Environmental Geology, or Environmental Analysis.

The Interdisciplinary Program in Environmental Science offers courses to prepare students (1) for environmental science careers, and to become active proponents for their communities in the scientific and policy processes surrounding environmental issues, (2) to meet the environmental science employment demands of local, state, and federal governmental agencies, private consulting, and industry, and (3) to pursue advanced degrees in environmental/physical sciences.

CURRICULUM

Required courses (15-16 credits)

Students are required to take the following courses:

ENV 210	Introduction to Environmental Science	3
ENV 211	Introduction to Environmental Science Laboratory	1
GEH 245	Introduction to Quantitative Methods of Geography	3
	Or	
MAT 132	Introduction to Statistics	4
	Or	

BIO 240	Biostatistics	3
PHY 151	Energy and the Environment	3
ENV 330	Environmental Impact Assessment	3
ENV 420	Natural Resource Management: Senior Seminar	2

MAT 132: This course requires the completion of the College's requirement in mathematics.

BIO 240 or equivalent: This course has prerequisites that are not a part of the major.

ENV 330, ENV 420: These courses have prerequisites that are a part of the major.

Required courses (15-17 credits)

Students are required to choose one course from each of the following four areas in consultation with a Departmental advisor:

Biological Sciences

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4

GEOSciences

GEO 101	Dynamic Earth	3
GEO 102	Dynamic Earth Laboratory	1
GEP 228	Weather and Climate	3
GEP 229	Weather and Climate Laboratory	1
ENV 270	Environmental Pollution	4

GEOSpatial Analysis

GEP 205	Principles of Geographic Information Science	3
GEP 321	Introduction to Remote Sensing	4

Chemistry

CHE 136	Elements of Chemistry	4
CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5

CHE 166, CHE 167: These courses require the completion of the College's requirement in mathematics.

Elective courses (12-15 credits)

Students choose 12-15 credits in electives to meet the 46 credit requirement in consultation with a departmental advisor. It is recommended that students choose courses that are grouped in one of the following specialization areas:

Ecology

BIO 167	Principles of Biology: Organisms	4
BIO 184	Plants and People	4
BIO 242	Flowering Plants	4
BIO 302/BIO	Biogeography	4

302/GEP 302		
BIO 330/BIO 330/BIO 340	Plant Physiology	4
BIO 336	Marine Biology Lectures	3
BIO 339	Ecology	4
ENV 235	Conservation of the Environment	3
ENV 255	Regional Topics and Field Methods in Environmental Sciences	1, 2, 3, or 4 (may be repeated for a maximum of 6)
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
CHE 244	Introduction to Biochemistry	3

BIO 302, BIO 330, BIO 336, BIO 339, CHE 244: These courses have prerequisites that are not a part of the major.

CHE 168, CHE 169: These courses have prerequisites that are a part of the major.

Urban Environmental Management

GEP 205	Principles of Geographic Information Science	3
GEP 230	Urban Environmental Management	3
GEP 310	Geography of Urban Health	3
GEP 350	Special Projects in Geographic Information Systems	4
GEP 360	Geovisualization and Analytic Cartography	4
GEP 375	Data Acquisition Gis	3
GEH 240	Urban Geography	3
ENV 235	Conservation of the Environment	3
ENV 255	Regional Topics and Field Methods in Environmental Sciences	1, 2, 3, or 4 (may be repeated for a maximum of 6)
ENV 270	Environmental Pollution	4
ENV 326	Environmental Policy	3
HEA 301	Environmental Health	3

GEP 350, HEA 301: These courses have prerequisites that are a part of the major.

Environmental Geology

GEO 101	Dynamic Earth	3
GEO 102	Dynamic Earth Laboratory	1

GEO 236	Environmental Geology	4
GEO 245	Earth Materials	4
GEO 340	Natural Hazards and Disasters: A Multidisciplinary Approach	3
GEO 341	Natural Hazards and Disasters Laboratory	1
GEO 345	Environmental Hydrology	4
GEO 350	Topics in regional geology and mapping techniques	4
GEO 375	Field Problems in Geology	3
GEO 410	Environmental Biogeochemistry	4
GEP 228	Weather and Climate	3
GEP 229	Weather and Climate Laboratory	1
GEP 321	Introduction to Remote Sensing	4
ENV 255	Regional Topics and Field Methods in Environmental Sciences	1, 2, 3, or 4 (may be repeated for a maximum of 6)

GEO 236, GEO 245, GEO 375, GEO 410: These courses have prerequisites that are a part of the major.

Environmental Analysis

GEP 205	Principles of Geographic Information Science	3
GEP 228	Weather and Climate	3
GEP 229	Weather and Climate Laboratory	1
GEP 302/BIO 302/GEP 302	Biogeography	4
GEP 310	Geography of Urban Health	3
GEP 321	Introduction to Remote Sensing	4
GEO 340	Natural Hazards and Disasters: A Multidisciplinary Approach	3
GEO 341	Natural Hazards and Disasters Laboratory	1
GEP 350	Special Projects in Geographic Information Systems	4
GEP 360	Geovisualization and Analytic Cartography	4
GEP 375	Data Acquisition Gis	3
ENV 235	Conservation of the Environment	3
ENV 255	Regional Topics and Field Methods in Environmental	1, 2, 3, or 4 (may be

	Sciences	repeated for a maximum of 6)
ENV 270	Environmental Pollution	4
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
CHE 232	Organic Chemistry Lecture I	4
CHE 233	Organic Chemistry Laboratory I	2
CHE 249	Quantitative Analysis	5

GEP 302, GEP 350, GEP 360, CHE 168, CHE 169, CHE 232, CHE 233, CHE 249: These courses have prerequisites that are a part of the major.

CHE 168, CHE 169, CHE 249: These courses require the completion of the College's requirement in mathematics.

Other elective courses

GEP 204	Basic Mapping: Applications and Analysis	3
GEP 470	Seminar and Internship Program in Geography	4 (may be repeated for a total of 8.)
PHY 166	General Physics I Or	5
PHY 168	Physics I for Scientists and Engineers	5
PHY 167	General Physics II Or	5
PHY 169	Physics II for Scientists and Engineers	5

PHY 166, PHY 168, PHY 167, PHY 169: These courses require the completion of the College's requirement in mathematics.

Environmental Science Minor

Minor in Environmental Science

The requirements for the minor in Environmental Science are:

GEO 101	Dynamic Earth Or	3
GEO 166	Processes of Global Change	4
GEH 235	Conservation of the Environment	3
GEO 236	Environmental Geology	4

And
One Geology or Geography
course

One Geology/Geography course: At the 300 or 400 level.

NOTE: GEP 205 is also recommended.

Geography, B.A. (28 Credit Major)

The required credits are distributed as follows:

6 credits in required courses:

GEH 101	An Introduction to Geography	3
	Or	
GEH 102	World Regional Geography	3
	And	
GEP 204	Basic Mapping: Applications and Analysis	3

4 credits in:

GEP 470	Seminar and Internship Program in Geography	4 (may be repeated for a total of 8.)
	Or	
GEH 490	Honors in Geography	One semester, 2, 3, or 4 (may be repeated for a maximum of 6).

3 credits in a regional Geography course

Chosen from among:

GEH 267	The New York Metropolitan Region	3
GEH 281	Geography of the United States and Canada	3
GEH 283	Geography of Western Europe	3
GEH 285	Regional Geography of Asia	3
GEH 287	Regional Geography of Africa	3
GEH 289/GEH 189/GEH 289/LAC 289	Regional Geography of Latin America	3
GEH 291	Regional Geography of Eastern Europe and the Former Soviet Republics	3

15 credits selected from other Geography courses

To be determined by the student's objectives in consultation with a Geography adviser.

Geographic Information Science Certificate

Certificate Program in Geographic Information Science (GISc)

Geographic Information Science (GISc) is a fast-growing computer technology field involving mapping and analysis of spatial data. Geographic Information Systems (GIS) enable us to assess and manage existing conditions, and also help predict future conditions, ranging from monitoring disease occurrences to endangered species preservation, managing water supplies, tracking real estate values, and crime solving.

GIS is used today in fields as diverse as law enforcement, marketing, economic development, public health administration, environmental analysis, ecology, urban planning, real estate, government, education, geology, anthropology, and archaeology. GISc is an expanding field with good career opportunities, and GIS professionals are in high demand in many fields. People with GIS skills can also be more marketable as managers and analysts in their own fields. A certificate in GISc can be advantageous by itself or in augmenting a bachelor's or associate's degree.

The certificate in GISc consists of a sequence of four courses, equaling 14 credits, plus one 3-credit Geography elective course, for a total of 17 credits:

GEP 204	Basic Mapping: Applications and Analysis	3
GEP 205	Principles of Geographic Information Science	3
GEP 350	Special Projects in Geographic Information Systems	4
GEH 490	Honors in Geography	One semester, 2, 3, or 4 (may be repeated for a maximum of 6).
GEH	Geography elective	3

Geography Elective (3 credits), to be selected from among:

GEH 101	An Introduction to Geography	3
GEH 230	Human Geography	3
GEP 230	Urban Environmental Management	3
GEH 235	Conservation of the Environment	3
GEH 240	Urban Geography	3
GEH 266	Geography of Development	3

Other courses may be substituted for the elective requirement with the Department's permission.

Geographic Information Science Minor

Minor in Geographic Information Science

Credits (14)

The minor in Geographic Information Science consists of:

GEP 204	Basic Mapping: Applications and Analysis	3
GEP 205	Principles of Geographic Information Science	3
GEP 350	Special Projects in Geographic Information Systems	4
GEP 470	Seminar and Internship Program in Geography	4 (may be repeated for a total of 8.)
	Or	
GEH 490	Honors in Geography	One semester, 2, 3, or 4 (may be repeated for a maximum of 6).

Career Preparation

The majors in Geology and Geography prepare students for graduate study and professional careers in geology, geography, earth sciences, oceanography, photogrammetry, regional and environmental studies, international relations, cartography, and urban and regional planning.

Economics and Business

Department Chair: Dene Hurley (Carman Hall, Room 375)

Senior Advisor and Academic Advising Manager: Deirdre Constant

Academic Advisor: Griselda Poe

Department Faculty: Professors: Jose Cao-Alvira, Ning Chen, Mario Gonzalez-Corzo, Dene Hurley, Mary Rogan, Chanoch Shreiber; Associate Professors: Amod Choudhary, Juan Delacruz, Mine Doyran, Vassilios Gargalas, Nikolaos Papanikolaou, Rossen Petkov; Assistant Professors: Nari Kim, Richard Lahijani, Alexander Nunez-Torres, Sean Stein Smith; Lecturers: Shirley Bishop, Anthony Murrell, Ada Rodriguez, Deborah Sanders, Linda Tauber

The Department offers five undergraduate majors: B.A. in Economics; B.A. in Accounting; B.S. in Accounting;

Bachelor of Business Administration (B.B.A.); and B.A. in Economics and Mathematics.

Career Opportunities: The degree programs offered by the Department are designed to equip students with necessary competencies for successful careers in business enterprises, government or non-profit organizations, education, and research.

Preparation for Graduate Study: Students planning graduate study in economics, accounting, business administration, law, or any relevant academic or professional field should contact Departmental advisers.

Economics, B.A. (35 Credit Major)

This major provides an understanding of the structures, processes, and trends in the private and public economy and offers academic and technical training in the analysis and handling of economic issues and problems:

Core Course Requirement (23 credits):

12 in economic analysis:

ECO 166	Introduction to Macroeconomics	3
ECO 167	Introduction to Microeconomics	3
ECO 300	Intermediate Macroeconomics	3
ECO 301	Intermediate Microeconomics	3

11 in quantitative methods:

ECO 302	Economic Statistics	3
ECO 402	Econometrics	4
MAT 174	Elements of Calculus	4
	Or	
MAT 175	Calculus I	4

MAT 155 (1 credit) is a co-requisite of MAT 175.

Elective Courses (12 credits):

Select four courses from the following list:

ECO 305/BBA 305/ECO 305	Consumer Economics	3
ECO 306	Money and Banking	3
ECO 311/ECO 311/BBA 207	Public Economics	3
ECO 322	Economic History of Developing Countries	3
ECO 323/ECO 323/LAC 323	Economic Development in Latin America	3
ECO 324/ECO 324/BBA 324	International Economics	3
ECO 326/BBA 326/ECO 326	Labor Economics	3
ECO 331	Industrial Organization and Regulation	3
ECO 338	Law and Economics	3

ECO 344	Economic Evaluation of Health Programs	3
ECO 345	Health Economics	3
ECO 401	Introduction to Mathematical Economics	3
ECO 431/ECO 431/BBA 431	Managerial Economics	3
BBA 310	Security and Investment Analysis	3

Economics and Mathematics, B.A. (57-58 Credit Major)

Program Description: 57-58 Credits Major in Economics and Mathematics

Course Description:

Foundation Courses (23 credits)

ECO 166	Introduction to Macroeconomics	3
ECO 167	Introduction to Microeconomics	3
ECO 302	Economic Statistics	3
ECO 402	Econometrics	4
MAT 175	Calculus I	4
MAT 176	Calculus II	4

MAT 155 (1 credit) is a co-requisite of MAT 175 and MAT 156 (1 credit) is a co-requisite of MAT 176.

Requirements (25 credits)

ECO 300	Intermediate Macroeconomics	3
ECO 301	Intermediate Microeconomics	3
ECO 401	Introduction to Mathematical Economics	3
MAT 226	Vector Calculus	4
MAT 301	Applied Statistics and Computer Analysis for Social Scientists	3
MAT 313	Elements of Linear Algebra	4
MAT 330	Probability and Statistics	4

Electives (9-10 credits)

One Mathematics course to be chosen from the list below:

MAT 323	Ordinary Differential Equations	4
MAT 327	Statistical Inference	4
MAT 347	Game Theory and Linear Programming	3
MAT 349	Operations Research	4
MAT 364	Financial Mathematics	4
MAT 424	Partial Differential Equations and Applications	4
MAT 430	Advanced Probability and Applications	4
MAT 464	Advanced Financial Mathematics and Applications	4

Two Economic courses to be chosen from the list below:

ECO 305/BBA	Consumer Economics	3
-------------	--------------------	---

305/ECO 305		
ECO 306	Money and Banking	3
ECO 311/ECO 311/BBA 207	Public Economics	3
ECO 322	Economic History of Developing Countries	3
ECO 324/ECO 324/BBA 324	International Economics	3
ECO 326/BBA 326/ECO 326	Labor Economics	3
ECO 331	Industrial Organization and Regulation	3
ECO 338	Law and Economics	3
ECO 344	Economic Evaluation of Health Programs	3
ECO 345	Health Economics	3
ECO 431/ECO 431/BBA 431	Managerial Economics	3

Economics and Mathematics BA Prior to Fall 2021

Economics Minor

Minor in Economics

This minor consists of:

ECO 300	Intermediate Macroeconomics	3
ECO 301	Intermediate Microeconomics	3
ECO 302	Economic Statistics	3
	And	
	One elective course	

One elective course: 300-and 400-level with ECO prefix.

ECO 302: Students majoring in Accounting and Business Administration must substitute BBA 403 for ECO 302.

Accounting, B.A. (42 Credit Major)

Completion of this major qualifies students for positions in private and public accounting. Students enrolled in this major must complete the following credit requirements:

Credits (42)

6 credits in business economics:

ECO 166	Introduction to Macroeconomics	3
ECO 167	Introduction to Microeconomics	3

30 credits in accounting:

ACC 171	Principles of Accounting I	3
ACC 272	Principles of Accounting II	3
ACC 334/ECO 334/ACC 334	Intermediate Accounting I	3
ACC 335	Intermediate Accounting II	3
ACC 342	Advanced Accounting	3
ACC 348/ECO 448/ACC 348	Computer-Based Accounting	3

ACC 439	Cost Accounting I	3
ACC 440/ACC 440/ECO 440	Cost Accounting II	2
ACC 441	Auditing	4
ACC 442/ACC 442	Introduction to Federal Taxation	3

6 credits in law:

BBA 336	Business Law I	3
	And	
BBA 337	Business Law II	3
	Or	
BBA 339	Commercial Transactions	3
	And	
BBA 340	Internet Law	3

Accounting, B.S. (63 Credit Major)

To earn the B.S. in Accounting, a student must complete a total of 120 credits, 60 of which must be in liberal arts.

Effective Fall 2009, college CPA programs registered with the New York State Education Department must offer a curriculum consisting of a minimum of 150 credit hours. In line with this change, as of Fall 2009, the Department of Economics and Business offers, in addition to the B.S. in Accounting, an M.S. in Accounting program for those students who choose to take the additional 30 credits toward this graduate degree. However, specific admission requirements are in place to gain admittance to the M.S. in Accounting program. Contact the Department for details.

Professional Credits (60)

6 in economics:

ECO 166	Introduction to Macroeconomics	3
ECO 167	Introduction to Microeconomics	3

33 in accounting:

ACC 171	Principles of Accounting I	3
ACC 272	Principles of Accounting II	3
ACC 334/ECO 334/ACC 334	Intermediate Accounting I	3
ACC 335	Intermediate Accounting II	3
ACC 342	Advanced Accounting	3
ACC 348/ECO 448/ACC 348	Computer-Based Accounting	3
ACC 439	Cost Accounting I	3
ACC 440/ACC 440/ECO 440	Cost Accounting II	2
ACC 441	Auditing	4
ACC 442/ACC 442	Introduction to Federal Taxation	3
ACC 444	Advanced Accounting Problems	3

3 in one ACC elective to be chosen from:

ACC 445	Forensic Accounting	3
ACC 446	Nonprofit and International Accounting	3
ACC 449	Taxation of Business Entities	3
6 in law:		
BBA 336	Business Law I	3
BBA 337	Business Law II	3
6 in finance:		
BBA 207/BBA 207/BBA 307	Principles of Finance	3
BBA 308/BBA 308/ECO 312/SOC 312	Corporation Finance	3
	Or	
BBA 310	Security and Investment Analysis	3
6 in quantitative methods for business:		
BBA 303	Business Statistics I	3
BBA 403	Intermediate Business Statistics II	3

Credits in Other Departments (3)

3 in business writing:

ENW 300	Business Writing	3
---------	------------------	---

NOTE: All students are admitted to this major on a provisional basis. The B.S. in Accounting major is designed to help students prepare for professional certification in Accounting. To enroll and/or maintain matriculation in the B.S. in Accounting major, students must attain a minimum cumulative index of 2.7 (B-) in the first four required Department courses completed at Lehman College that count toward the major. Only the first grades earned in each course are counted in computing the index. Students who fail to attain and maintain this minimum index will not be allowed to enter or continue in the B.S. in Accounting major but can enroll in, or change to, the B.A. in Accounting major or a minor in Accounting.

Accounting Minor

Minor in Accounting

The minor in Accounting consists of:

ACC 272	Principles of Accounting II	3
ACC 334/ECO 334/ACC 334	Intermediate Accounting I	3
ACC 335	Intermediate Accounting II	3
ACC	One ACC course	

One ACC course: 300- or 400-level.

Business Administration B.B.A. (46-47 Credits)

The B.B.A. program equips students with the necessary managerial skills to function in today's rapidly changing business environment. The program, stressing the place of business organizations in the larger community, prepares its enrollees to meet this challenge by helping them develop appropriate technical, conceptual, and interpersonal competencies. The curriculum also emphasizes the role of non-profit and governmental organizations in societal life. As such, students majoring in this program are introduced to the art and science of planning, organizing, controlling, and leading the physical, financial, human, and informational resources of any and all organizations —private or public, for-profit or not-for-profit, corporate or entrepreneurial.

Departmental Credits (36 credits):

6 credits in economics:

ECO 166	Introduction to Macroeconomics	3
ECO 167	Introduction to Microeconomics	3

6 credits in accounting:

ACC 171	Principles of Accounting I	3
ACC 272	Principles of Accounting II	3

6 credits in quantitative methods for business:

BBA 303	Business Statistics I	3
BBA 403	Intermediate Business Statistics II	3

9 credits in management:

BBA 204/BBA 204/BBA 304	Principles of Management	3
BBA 405	Management Decision Making	3
BBA 407	Strategic Management	3

9 credits in one area of concentration:

Finance:

BBA 207/BBA 207/BBA 307	Principles of Finance	3
BBA 308/BBA 308/ECO 312/SOC 312	Corporation Finance	3
BBA 310	Security and Investment Analysis	3

Marketing:

BBA 332/ECO 332/BBA 332	Marketing Management	3
BBA 367	Consumer Behavior	3
BBA 467	Marketing Research	3

Accounting:

ACC 334/ECO 334/ACC 334	Intermediate Accounting I	3
ACC 335	Intermediate Accounting II	3
ACC 348/ECO	Computer-Based Accounting	3

448/ACC 348

Human Resource Management:

BBA 327	Organizational Behavior and Development	3
BBA 328	Human Resource Management	3
BBA 329	Labor Relations	3

Business Law:

BBA 336	Business Law I	3
BBA 337	Business Law II	3
BBA 339	Commercial Transactions	3

International Business:

ECO 324/ECO 324/BBA 324	International Economics	3
BBA 432	International Business Management	3
BBA 433	Global Marketing	3

Business Economics:

ECO 305/BBA 305/ECO 305	Consumer Economics	3
ECO 326/BBA 326/ECO 326	Labor Economics	3
ECO 431/ECO 431/BBA 431	Managerial Economics	3

E-Business:

BBA 333	E-Business	3
BBA 340	Internet Law	3
BBA 433	Global Marketing	3

Hospitality Management:

BBA 345	Introduction to Hospitality Management	3
BBA 346	Strategic Hospitality Management	3
BBA 347	Hospitality Management Fieldwork	3

Students who wish to elect a second concentration should consult with a Departmental advisor.

Credits in Other Departments (10-11 credits):

3 credits in ethical and legal responsibilities:

PHI 330	Business Ethics	3
---------	-----------------	---

3 credits in business writing:

ENW 300	Business Writing	3
---------	------------------	---

4-5 credits in mathematics:

MAT 132	Introduction to Statistics	4
	Or	
MAT 171	Elements of Precalculus	4
	Or	
MAT 172	Precalculus	4
	Or	
MAT 174	Elements of Calculus	4

Or

MAT 175

Calculus I

4

NOTE: All students are admitted to this major on a provisional basis. The BBA major is designed to help students prepare for professional business careers, including professional certification in various aspects of business. To enroll in/or maintain matriculation in the Bachelor of Business Administration major, students must attain a minimum cumulative index of 2.7 (B-) in the first four required Department courses completed at Lehman College that count toward the major. Only the first grades earned in each course are counted in computing the index. Students who fail to attain and maintain this minimum index will not be allowed to enter or continue in the B.B.A. major, but can enroll in the B.A. in Accounting major and minors in Management or Business Practice. Students will be advised on majors that will allow them to accomplish their career goals.

Business Administration Minor

This minor consists of any four courses with a BBA prefix at the 200 level or higher.

Students majoring in Economics cannot elect BBA 303 under this minor.

Business Administration Minor Prior to Spring 2019

Business Law Minor**Minor in Business Law****The minor in Business Law consists of:**

BBA 204/BBA 204/BBA 304	Principles of Management	3
BBA 336	Business Law I	3
BBA 337	Business Law II	3
BBA 339	Commercial Transactions	3

Finance Minor**Minor in Finance****The minor in Finance consists of:**

BBA 204/BBA 204/BBA 304	Principles of Management	3
BBA 207/BBA 207/BBA 307	Principles of Finance	3
BBA 308/BBA 308/ECO 312/SOC 312	Corporation Finance	3
BBA 310	Security and Investment Analysis	3

Human Resource Management Minor

Minor in Human Resource Management

The minor in Human Resource Management consists of:

BBA 204/BBA 204/BBA 304	Principles of Management	3
BBA 327	Organizational Behavior and Development	3
BBA 328	Human Resource Management	3
BBA 329	Labor Relations	3

International Business Minor

Minor in International Business

The minor in International Business consists of:

BBA 204/BBA 204/BBA 304	Principles of Management	3
ECO 324/ECO 324/BBA 324	International Economics	3
BBA 432	International Business Management	3
BBA 433	Global Marketing	3

Management Minor

Effective: Spring 2019. Students whose minor declaration for this program is effective beginning in the Spring of 2019 or thereafter must follow these requirements. Students whose declarations were for previous semesters follow the requirements that were in effect at the time of declaration. See link below for the most recent Management minor requirements prior to Spring 2019. Please refer to DegreeWorks or consult an advisor to review your requirements and track your progress.

Minor in Management

The minor in Management consists of:

BBA 204/BBA 204/BBA 304	Principles of Management	3
BBA 303	Business Statistics I	3
BBA 405	Management Decision Making	3
BBA 407	Strategic Management	3

BBA 303: Economics majors who wish to take this minor must substitute ECO 302 for BBA 303.

Marketing Minor

Minor in Marketing

The minor in Marketing consists of:

BBA 204/BBA 204/BBA 304	Principles of Management	3
BBA 332/ECO 332/BBA 332	Marketing Management	3

BBA 367	Consumer Behavior	3
BBA 467	Marketing Research	3

English

Department Chair: David Hyman (Carman Hall, Room 385)

Department Faculty: Professors: Siraj Ahmed, Allison Amend, Mario DiGangi, Paula Loscocco, Margot Mifflin, Deirdre Pettipiece; Associate Professors: James Anderson, Salita Bryant, William G. Fisher, David Hyman, Tyler T. Schmidt, Jessica Yood; Assistant Professors: Melissa Castillo Planas, I. Augustus Durham, Eve Eure, Sophia Hsu, Arianevani Kannan, J. Bret Maney, Olivia Moy; Lecturers: Matthew Caprioli, Jane Cleland, Jennifer MacKenzie, Joseph McElligott, Deirdre O'Boy, Dhipinder Walia

The Department of English offers students the opportunity to gain a thorough knowledge of literatures written in English; to develop expertise in literary exposition and criticism; to learn the fundamentals of linguistics; to develop rhetorical competency in multimedia writing and publication, both expository and creative; and to acquire professional skills in writing, editing, and proofreading. The specializations that students in the Department may choose are Literature, Professional Writing, or Creative Writing. English majors minor in Early Childhood and Childhood Education or Middle and High School Education, as well as many other disciplines in the Arts and Sciences. The Department participates in interdisciplinary programs in Comparative Literature, Disability Studies, Human Rights and Peace Studies, Humanities, Irish, Linguistics, Professional Communications, and Women's Studies.

College Writing Requirement

All students, including transfer students, must take:

ENG 110	Principles of Effective Writing I	3
	And	
ENG 120	Principles of Effective Writing II	3
	Or	
ENG 111	English Composition I	3
	And	
ENG 121	English Composition II	3

Unless exempted. (Students transferring to Lehman from a CUNY Community College with an A.A., A.S., or A.A.S. degree are deemed to have met this requirement.)

Entry into ENG 110, ENG 111 and ENG 120 or ENG 121 is based on placement determined by the English Department. Every student should enroll in the appropriate English composition course each semester until ENG 120 or ENG 121 is passed.

English, B.A. (40-44 Credit Major)

The English Major consists of 40-44 credits consisting of a required CORE plus courses taken in one of three specializations: Literature, Professional Writing, or Creative Writing. The total number of credits depends on what courses students take and whether they participate or not in the English Honors Program. English courses numbered below the 300-level do not qualify toward the Major. Students who wish to take 300- or 400-level courses must obtain permission from the Department.

Required courses and credits are distributed as follows:

ENGLISH CORE REQUIREMENTS (16 credits)

ENG 300	Unsettling English Studies: Introduction to the Major	4
ENG 339/ENG 339/LAC 339	Latinx Literature	3
ENG 340	African American and Black Diasporic Literatures	3
ENW 399	Research, Rhetoric, and Writing Studies	3
ENG 350	Senior Seminar	3

*ENG 358 (Topics in Latinx Literature) may be taken instead of the ENG 339 survey.

**ENG 359 (Topics in African American and Black Diasporic Literature) may be taken instead of the ENG 340 survey.

LITERATURE SPECIALIZATION (24-27 credits)

In addition to the 16-credit English CORE requirements, Literature Majors are expected to take Required and Elective courses within their specialization.

Literature REQUIREMENT (3 credits)

One course from the list of pre-1800 courses below.

ENG 315	English Literature to 1800	3
ENG 318	British Literature from 1800	3
ENG 301	Early Modern English Literature	3
ENG 302	Eighteenth-Century British Literature	3
ENG 305	History of the English Language	3
ENG 311	Chaucer	3
ENG 312	Shakespeare in Context	3
ENG 314	Milton	3
ENG 321	Early American Literature	3
ENG 323	Early Women Writers	3

One of the following: 3 credits
FRE 321, 322, 323, 324, 325;
ITA 320, 322, 327, 329, 330,
337, 447, 448; LAC 333; RUS
330; SPA 301, 323, 331, 333,
340, 341; THE 326, 440, 445

Literature ELECTIVES 21-24 credits

Choose from among any ENG 300/400-level courses (including additional pre-1800 courses from the list above). Total credits must add up to at least 21 credits in 7 courses for Literature Majors and at least 22 credits in 8 courses for Honors Literature Majors.

Students may substitute HUM 470 (Humanities Internship (5 credits) for one ENG elective, or up to two ENW 300/400-level courses (up to 6 credits) for up to two ENG electives.

ENG 371 or 389: Required for Honors Literature; recommended for all students

ENG 481: Required for Honors Literature (3 credits); English honors students only

ENG 482: Required for Honors (1 credit); English honors students only

PROFESSIONAL WRITING SPECIALIZATION (24-27 credits)

In addition to the 16-credit English CORE requirements, Professional Writing Majors are expected to take Required and Elective courses within their specialization.

Professional Writing REQUIREMENTS (9 credits)

Students must take 3 courses totaling 9 credits as follows:

ENW 305	Principles of Professional Writing	3
ENW 315	Editing for Style and Flow	3
ENW 318	Writing for New Media	3

Professional Writing ELECTIVES (15-18 credits)

Choose courses from 300-400-level ENW Professional Writing courses: ENW 300, 304, 306, 307, 313, 314, 316, 319, 320, 322, 323, 324, 325, 326, 332, 333, 334, 335, 345, 365, 366, 381, 462, 463. Total credits must add up to at least 15 credits in 5 courses for Professional Writing Majors and at least 16 credits in 6 courses for Honors Professional Writing Majors.

Students may substitute any 300/400-level ENG course or ENW course (3 credits), or HUM 470 (Humanities Internship, 5 credits), for one Professional Writing Elective (3 credits).

HUM 470: Required for Honors Professional Writing (5 credits); recommended for all students

ENW 481: Required for Honors Professional Writing (3 credits); English honors students only

ENG 482: Required for Honors (1 credit); English honors students only

CREATIVE WRITING SPECIALIZATION (25-28 credits)

In addition to the 16-credit English CORE requirements, Creative Writing Majors are expected to take Required and Elective courses within their specialization.

Creative Writing REQUIREMENTS (19 credits)

Students must take 6 courses totaling 19 credits as follows:

ENW 310	Principles of Creative Writing	3
	Workshops: (9 credits) Choose three; repeatable for credit; must take at least two different genres. ENW 310 is prerequisite for all workshops.	
ENW 301	Workshop in Poetry	3 Can be repeated to maximum of 9
ENW 302	Workshop in Fiction	3 Can be repeated to maximum of 9
ENW 303	Workshop in Creative Nonfiction	3 Can be repeated to maximum of 9
ENW 308	Workshop in Playwriting	3
THE 308	Or Playwriting	3
ENW 309	Workshop in Screenwriting	3 Can be repeated to maximum of 9
ENW 364	Topics in Creative Writing	3 Can be repeated to maximum of 9
	Choose two; repeatable for credit; no prerequisite.	

Creative Writing ELECTIVES (6-9 credits)

Choose any two 300- or 400-level ENG or ENW courses.

Students may take a fourth Workshop and/or a third ENW 364 as electives. Total credits must add up to at least 6 credits in 2

courses for Creative Writing Majors and at least 7 credits in 3 courses for Honors Creative Writing Majors.

Students may substitute HUM 470 (Humanities Internship, 5 credits) for one ENG or ENW elective.

Students interested in Digital Storytelling are encouraged to take THE 309 (Digital Storytelling). Note: THE/DNC 225 (Tools of Digital Storytelling) is a prerequisite for THE 309 but does not count toward the English major in Creative Writing.

HUM 470: Required for Honors Creative Writing (5 credits); recommended for all students

ENW 481: Required for Honors Creative Writing (3 credits); English honors students only

ENG 482: Required for Honors (1 credit); English honors students only

ENGLISH HONORS PROGRAM (EHP)

The English Honors Program offers capable students an opportunity to push their critical and creative boundaries. EHP students in Literature, Creative Writing, and Professional Writing have access to the Department's honors room, participate in academic and cultural events on and off campus, enjoy honors advisement, work individually with a faculty mentor on a senior honors thesis in the Fall Term prior to graduation, and collaborate in colloquia and mini-conferences. Interested students who have a 3.7 GPA in at least two 300-level English courses, and an overall GPA of 3.5+ may contact the EHP Director about this demanding but rewarding program.

ENGLISH MINOR (12-13 credits)

The Minor in English consists of four courses totaling 12-13 credits, planned as one of three options listed below. ENG 111/113 and ENG 121/123 do not count toward the Minor in English. The English Minor is open to all majors (except English).

Literature Minor (12 credits)

Students must take one or two 200-level ENG courses (3-6 credits), plus two or three 300/400-level ENG courses (6-9 credits), for a total of four courses (12 credits). One 300/400-level ENW course may be substituted for a 300/400-level ENG course in Literature.

Professional Writing Minor (12 credits)

Students must take ENW 201 and/or ENW 217 (3-6 credits), plus two or three ENW 300/400-level ENW courses in Professional Writing (6-9 credits), for a total of four courses (12 credits). Professional Writing courses include ENW 300, 304, 305, 306, 307, 313, 314, 315, 316, 318, 319, 320, 322, 323, 324, 325, 326, 332, 333, 334, 335, 345, 365, 366, 381,

462, 463. One 300/400-level ENG or ENW course may be substituted for a 300/400-level ENW course in Professional Writing.

Creative Writing Minor (12-13 credits)

Students must take ENW 210 (3 credits) or ENW 310 (4 credits), plus any three 300/400-level Creative Writing courses (9-10 credits), for a total of four courses (12-13 credits). Creative Writing courses include ENW 301, 302, 303, 308, 309, 310, 323, 324, 326, 364, 366, 461. Students who take ENW 210 first may take ENW 310 as one of their three 300/400-level Creative Writing courses. Note: ENW 310 is a prerequisite for all Workshops (ENW 301, 302, 303, 308, 309). One 300/400-level ENG or ENW course may be substituted for a 300/400-level ENW course in Creative Writing.

INTERDISCIPLINARY MINOR IN PROFESSIONAL COMMUNICATIONS (12 credits)

In addition to the 12-credit English Minors in Literature and Professional Writing, and the 12-13 credit English Minor in Creative Writing, students have the option of the 12-credit Interdisciplinary Minor in Professional Communications. The Professional Communications Minor provides students from all departments with a career-boosting opportunity to develop their writing skills in various multimedia venues. The Minor is open to all Majors (including English Literature and Creative Writing but not Professional Writing Majors).

ENGLISH MA

English Majors who have completed 90 or more credits and who have a cumulative GPA of at least 3.3 may request permission to take up to 12 credits of coursework in the English MA program for undergraduate credit. Graduate classes taken as an undergraduate do not count towards the English Major or Minor requirements but will be counted towards the calculation of Dean's List, Presidential Scholars and departmental honors. Students who are later accepted into the English MA program may count Lehman English graduate coursework taken for undergraduate credit toward the MA degree.

TEACHER OF ENGLISH

English Majors who are also Minors in Early Childhood and Childhood Education (ECCE) or Middle and High School Education (MHSE) must fulfill the requirements of the 40-44-credit English Major in Literature, Professional Writing, or Creative Writing, regardless of whether or not they are pursuing certification.

Education Minors who receive certification as undergraduates may pursue an M.A. in English. Education Minors who do not receive certification as undergraduates may pursue an M.S. in Education. Students interested in becoming teachers should

consult the Office of the Dean of Education for the latest information on New York State requirements for teacher certification.

Undergraduate Courses

ENG and ENW Courses

English (ENG) Courses (p. 264)

English Writing (ENW) Courses (p. 272)

Freshman Year Initiative

Freshman Programs: Steven Wyckoff (Carman Hall, Room 339)

The Freshman Year Initiative (FYI) is an award-winning, nationally recognized program offering first-year students a supportive and carefully structured college experience. The program promotes an interdisciplinary curriculum, faculty collaboration, learning communities, and peer support for first-year students.

Health Sciences

Department Chair: Gul Tiryaki-Sonmez (Apex Building, Room 265)

Program Directors: Andrea Boyar, Dietetics, Foods, and Nutrition, B.S. (Gillet Hall, Room 421-A); Danna Ethan, Health Education and Promotion, B.S. (Gillet Hall, Room 431-C); Jacob Eubank, Recreation Education (APEX, Room 267); Tailisha Gonzalez, Public Health, B.S. (Gillet Hall, Room 422-D); Hyangmi Kim, Therapeutic Recreation, B.S. (APEX, Room 267); Gul Tiryaki-Sonmez, Exercise Science, B.S. (APEX, Room 265); Amy White, Health Services Administration, B.S. (Gillet Hall, Room 422-D)

Department Faculty: Professors: Craig Demmer, Danna Ethan, Gul Tiryaki-Sonmez; Associate Professors: Andrea Boyar, Chul-Young Roh, Maria Isabel Roldos Prosser, Lalitha Samuel, Brad Schoenfeld; Assistant Professors: Emilie Adams, Andrew Alto, Katherine Burt, Charles Cange, Ileana Carillo, Jacob Eubank, Andrew Kim, Hyangmi Kim, Douglas Oberlin; Lecturers: Lisa Fusco, Marina Stopler; Sub-Lecturers: Tailisha Gonzalez, Kezia Hercules, Amy White

The Department of Health Sciences offers students the opportunity to study health education, nutrition, recreation, exercise science, recreation, therapeutic recreation and health services administration; to learn to provide technical assistance in the analysis of health problems, policy formation, and management; and to acquire professional skill in the delivery of services in health, nutrition, and health services administration. The Department offers seven programs of study: (1) Dietetics, Foods, and Nutrition, B.S.; (2) Exercise Science, B.S.; (3) Health Education and

Promotion, B.S.; (4) Health Services Administration, B.S.; (5) Recreation Education, B.S., (6) Therapeutic Recreation, B.S. and (7) Public Health, B.S. Some of these programs offer optional specializations. The Department offers an interdisciplinary minor in developmental disabilities and participates in the interdisciplinary Women's Studies Program (p. 198).

Dietetics, Foods, and Nutrition, B.S. (52.5-63.5 Credit Major)

The Dietetics, Foods, and Nutrition (DFN) major include two options: Nutrition and Dietetics and; Culinary and Community Nutrition. They are designed to prepare students for entry-level employment in nutrition and food-related positions in healthcare facilities, community agencies, cooperative extension, food service operations, culinary or nutrition education, and/or the food industry. Students are also prepared for post-graduate education in nutrition and food-related fields.

GPA Requirements

A minimum GPA of 3.3 is required for admission into Nutrition and Dietetics major. A minimum GPA of 2.5 is required for Culinary and Community Nutrition major. These GPAs must be maintained. If they are not maintained, students will be placed on academic probation for one semester after which time, if the GPA requirement is not met, students dropped from the DFN programs.

Admission Information

All students interested in either of the above DFN majors will first be enrolled in the Culinary and Community Nutrition major. Students interested in the Nutrition and Dietetics major are required to earn a B- or higher grade in in HSD 240, DFN 120, and DFN 341 courses with an overall minimum GPA of 3.3 before taking a pre-entry examination to assess aptitude for the Nutrition and Dietetics Major. Upon successful completion of the pre-entry examination (earning a minimum score of 80%), students may apply for the Nutrition and Dietetics major.

Nutrition and Dietetics major

The Nutrition and Dietetics major complies with the requirements for a DPD and is accredited by Accreditation Council for Education in Nutrition and Dietetics (ACEND):

120 South Riverside Plaza
Suite 2190
Chicago, IL 60606-6995
(800) 877-1600, ext. 5400
ACEND@eatright.org

DPD Verification

Students fulfilling all requirements for successful completion of the ACEND-accredited DPD are eligible for a Verification Statement and can apply for supervised practice in an ACEND-accredited dietetic internship (DI), which enables the student to take the CDR examination to become a registered dietitian nutritionist (RDN). The DPD Verification Statement also provides the opportunity to take the examination to become a Nutrition and Dietetic Technician, Registered (NDTR). To obtain a Verification Statement, students must successfully complete the following:

1. All required DPD courses with a minimum GPA of 3.3
2. PSY 166, which satisfies a General Education Requirement
3. ServSafe Food Handler Certification
4. The University of Indiana Plagiarism tutorial (available here)
5. Earn a score of 75% or better on the DPD Verification examination

Code of Ethics Compliance

DPD students must comply with the Code of Ethics for the Profession of Dietetics adopted by the Academy for Nutrition and Dietetics in order to progress in the program. Students who violate these requirements may be dropped from the program, in addition to any other sanctions that may be imposed by the College or the Profession. Students completing the program are required to take the DPD qualifying examination prior to receipt of the Verification Statement.

Becoming a Registered Dietitian Nutritionist (RD/RDN)

In order to become a Registered Dietitian Nutritionist (RDN), a student must:

1. Earn the minimum of a Baccalaureate degree
2. Satisfy the requirements for Lehman's DPD which includes completion of the courses required for the Nutrition and Dietetics option as well as PSY or SOC 166 (or equivalent)
3. Obtain a signed Verification Statement from the DPD Program Director in order to
4. Apply, enter, and complete a Dietetic Internship (DI) which entitles you to
5. Obtain a signed Verification Statement from the DI Program Director
6. Take and pass the CDR-administered Registration examination to become a Registered Dietitian Nutritionist

For further information on the Nutrition and Dietetics major (DPD), please see the DPD Handbook (available here).

Culinary and Community Nutrition major

The Culinary and Community Nutrition major prepares graduates to work in culinary nutrition education and in nutrition-oriented food service facilities. Graduates of this major are eligible to become certified dietary managers (CDM) via the Association of Nutrition and Foodservice Professionals (AFNP).

DFN Major

The distribution of courses and credits to be earned by all majors is as follows (41.5 credits):

3 credits in Health Sciences:

HSD 240	Nutrition and Health	3
---------	----------------------	---

22 credits in Dietetics, Foods, and Nutrition:

DFN 120	The Nature and Science of Food	3
DFN 220	Foods, Society, and Health	4
DFN 330	Quantity Food Procurement, Production, and Service	3
DFN 341/DFN 241	Nutrition Throughout the Life Cycle	3
DFN 369	Research Methods in Nutrition	3
DFN 430	Management of Dietetic Services	3
DFN 437	Nutrition Education & Counseling	3

12 credits in Biological Sciences:

BIO 181	Anatomy and Physiology I	4
BIO 182	Anatomy and Physiology II	4
BIO 230	Microbiology	4

4.5 credits in Chemistry:

CHE 114	Essentials of General Chemistry Lecture	3
CHE 115	Essentials of General Chemistry Laboratory	1.5

CHE 114, CHE 115: These courses also satisfy a General Education requirement.

Nutrition and Dietetics major (67 credits)**Additional courses to be taken (25.5-26 credits): plus 41.5 from above****17 credits in Dietetics, Foods, and Nutrition:**

DFN 248	Nutrition in Health Care	3
DFN 348	Nutrition in the Management of Disease	3
DFN 441	Seminar in Professional Practice of Nutrition and Dietetics	2
DFN 445	Advanced Nutrition	4
DFN 448	Nutrition in the Management of Disease II	3

DFN 470	Dietetic Services Field Experience	2
DFN 471	Field Experience in Clinical Nutrition	2
DFN 472	Field Experience in Community Nutrition	2

8.5-9 credits in Chemistry:

CHE 120	Essentials of Organic Chemistry Lecture I	3
CHE 121	Essentials of Organic Chemistry Laboratory II	1.5
CHE 244	Introduction to Biochemistry	3
CHE 245	Biochemistry Laboratory	1.5
DFN 244	Nutritional Biochemistry	3
DFN 245	Nutritional Biochemistry Laboratory	1

Culinary and Community Nutrition major (61.5 Credits)

This major provides students with the education and skills to become community nutrition educators or work in food service management

Additional courses to be taken (14 credits): plus 41.5 from above**3 credits in Health Sciences:**

HSD 266	The U.S. Health Care Delivery System	3
---------	--------------------------------------	---

8 credits in Dietetics, Foods, and Nutrition:

DFN 340	Community Nutrition and Food Justice	3
DFN 347	Introduction to Diet Therapy	3
DFN 470	Dietetic Services Field Experience	2
DFN 472	Field Experience in Community Nutrition	2

3 credits of an Elective in:

DFN, EXS, HEA, HSA, HSD, REC

BS to MS Dual Credit Opportunity

Second degree students, majoring in Dietetics, Foods, and Nutrition with 90 or more credits and a minimum of a 3.0 cumulative GPA and a minimum GPA of 3.0 in the major may be permitted to enroll in up to 12 credits of graduate coursework for the College's M.S. degree in Nutrition. The following graduate courses may be taken in place of related

undergraduate courses: DFN 520 for DFN 120; DFN 621 for DFN 220; DFN 620 for DFN 341; and DFN 637 for DFN 437. The student must receive permission from the department prior to registration.

Departmental Grading Policy

In each of the Department's major programs, the following policies apply:

Dietetics, Foods, and Nutrition: Students must earn a C- or above in all courses required for the DFN Option I major, whether taken at Lehman or another institution. All D or F grades must be repeated within one semester or the student risks being dropped from the accredited DPD program. D grades in Option II or in the minor are acceptable.

Health Education and Promotion: Students must earn a C- or above in all courses required for the major and the minor. If a grade is lower, the student must repeat the course. D grades in courses for the major that are transferred in from another institution are acceptable.

Exercise Science: Students must earn a C- or above in all courses for the major and the minor. If the grade is lower, the student must repeat the course.

Health Services Administration: Students must earn a C- or above in all courses for the major and the minor. If the grade is lower, the student must repeat the course. The Program will accept a total of one (1) transferred course with a D grade from the following list of Lehman College equivalent courses: PSY 166, ECO 166, ECO 167, ACC 171, or ACC 185.

Public Health: Students must earn a C- or above in all courses for the major and the minor. If the grade is lower, the student must repeat the course.

Recreation Education and Therapeutic Recreation: Students must earn a C- or above in all Departmental courses required for the major and the minor. A D grade is acceptable in only one of the following: BIO 181, PSY 166, PSY 234 and HIN 268 for therapeutic recreation majors. If a student earned a D in more than one of those courses, the student may choose which course to repeat. D grades in those courses transferred in from another institution as part of a completed degree program are acceptable.

Departmental Grading Policy Prior to Spring 2021

Health Sciences Departmental Grading Policy Prior to Spring 2019

Dietetics, Foods, and Nutrition Minor

The minor in Dietetics, Foods, and Nutrition requires 12 credits.

Courses must include HSD 240 and DFN 120, and two additional courses according to the following options:

I. Foods:

HSD 240	Nutrition and Health	3
DFN 120	The Nature and Science of Food	3
DFN 220	Foods, Society, and Health	4
DFN 330	Quantity Food Procurement, Production, and Service	3

II. Life Cycle Nutrition:

HSD 240	Nutrition and Health	3
DFN 120	The Nature and Science of Food	3
DFN 220	Foods, Society, and Health	4
DFN 341/DFN 241	Nutrition Throughout the Life Cycle	3

Option II: Students planning to choose option II or III should also take BIO 181-BIO 182.

III. Medical Nutrition Therapy:

HSD 240	Nutrition and Health	3
DFN 120	The Nature and Science of Food	3
DFN 220	Foods, Society, and Health	4
DFN 348	Nutrition in the Management of Disease	3

Option III: Students planning to choose option II or III should also take BIO 181-BIO 182.

Students planning to minor in DFN should select CHE 114-CHE 115 as a distribution course.

Exercise Science B.S. (60.5-68 Credit Major)

Lehman College BS in Exercise Science program offers two tracks: Pre-physical Therapy, and Exercise and Movement Science. The program utilizes the Human Performance Laboratory with its state-of-the-art equipment and the additional resources of the APEX facility, including the fitness and weight training centers.

Exercise science, the study of physiological and functional adaptations to movement, encompasses a wide variety of disciplines including, but not limited to: Exercise Physiology, Sports Nutrition, Sport Psychology, Motor Control/Development, and Biomechanics. The study of these disciplines is integrated into the academic preparation of exercise science professionals. Exercise science professionals work in health services and the fitness industry, and are skilled in evaluating health behaviors and risk factors, conducting fitness assessments, writing appropriate exercise prescriptions, and motivating individuals to modify negative

health habits and maintain positive lifestyle behaviors for health promotion. They conduct these activities in health care, university, corporate, commercial and community settings where their clients participate in health promotion and fitness-related activities.

Career opportunities for individuals graduating with an undergraduate degree in exercise science are numerous. Common career tracks range from the exercise practitioner in fitness and/or clinical settings to that of a test technologist in a clinical setting. Additionally, career opportunities in residential spas (defined as facilities that include a fitness and nutrition component) include fitness director, health and fitness instructors, and personal trainers.

Also, students often pursue graduate degrees in exercise science, leading to management level positions in fitness or wellness settings or as research assistants. In addition, other disciplines find it helpful to include coursework in the exercise sciences. A degree in exercise science is also a very appropriate background for those going into fields such as medicine, sports medicine, physical therapy, athletic training, occupational therapy or exercise physiology.

Aside from the workplace, the exercise science professional may seek employment opportunities in wellness settings including schools, medical sites, YMCAs, YWCAs, Boys and Girls Clubs, and community centers. Additional wellness opportunities can be found in nursing homes, recreation departments, aquatic centers, health management systems, and lifestyle management organizations.

Alternative wellness careers include massage therapy, aromatherapy, reflexology, herbology, osteopathy, and yoga, to name a few.

Honors in Exercise Science

Departmental honors in Exercise Science may be awarded to a student who has maintained an index of 3.5 in a minimum of 45 credits in all courses required for the major.

Option 1: Exercise and Movement Science

Major Requirements (60.5 credits). The major field requirements include the completion of 42 credits in Exercise Science core courses; 12.5 credits in science courses; 3 credits in Health Sciences; and 3 credits in a Major Elective course.

a. Exercise Science Courses (42 credits):

EXS 264	Introduction to Exercise Science	3
EXS 265	Behavioral Aspects of Physical Activity	3
EXS 315	Kinesiology and Biomechanics	3
EXS 316	Motor Learning	3
EXS 323	Exercise Physiology	3
EXS 326	Exercise Testing and Prescription	3

EXS 342/DFN 342/EXS 342	Sports Nutrition	3
EXS 423	Exercise Physiology II	3
EXS 424	Principles and Practices of Fitness and Wellness Programming	3
EXS 425	Theory and Methods of Strength and Conditioning	3
EXS 427	Application of Training Principles	3
EXS 430	Research Methods and Statistics in Exercise Science	3
EXS 470	Internship in Exercise Science I	3
EXS 471	Internship in Exercise Science II	3

b. Science Courses (12.5 credits)

BIO 181	Anatomy and Physiology I	4
BIO 182	Anatomy and Physiology II	4
CHE 114	Essentials of General Chemistry Lecture	3
CHE 115	Essentials of General Chemistry Laboratory	1.5

c. Health Sciences Courses (3 credits)

HSD 240	Nutrition and Health	3
---------	----------------------	---

d. Major Elective Courses (3 credits)

Select from EXS, REC, REH, DFN, HEA, HSA and/or HSD courses with approval of the adviser.

BS to MS Dual Credit Opportunity

Undergraduate students majoring in Exercise Science with 90 or more credits and a minimum of a (3.0) cumulative index and (3.0) index in the major may be permitted to enroll in up to 12 credits of graduate coursework for the College's M.S in Human Performance & Fitness. The following graduate courses may be taken in place of related undergraduate courses: EXS 504 for EXS 326; EXS 505 for EXS 342; EXS 615 for EXS 315; EXS 616 for EXS 316. The student must receive permission from the department prior to registration.

Option 2: Pre-Physical Therapy

Major Requirements (62-68 credits). The major field requirements include the completion of 33 credits in Exercise Science core courses; 29 credits in science courses.

Pre-requisites (4-6 credits):

MAT 172; or MAT 171 and MAT 108; or placement into calculus (MAT 175) is required in order to enroll in several courses required for the major. MAT 171 or MAT 172 can be used to fulfill the College Mathematical and Quantitative Reasoning Requirement.

a. Exercise Science Courses (33 credits):

EXS 264	Introduction to Exercise Science	3
EXS 265	Behavioral Aspects of Physical Activity	3
EXS 315	Kinesiology and Biomechanics	3
EXS 316	Motor Learning	3
EXS 323	Exercise Physiology	3
EXS 326	Exercise Testing and Prescription	3
EXS 423	Exercise Physiology II	3
EXS 425	Theory and Methods of Strength and Conditioning	3
EXS 430	Research Methods and Statistics in Exercise Science	3
EXS 470	Internship in Exercise Science I	3
EXS 471	Internship in Exercise Science II	3

b. Science Courses (29 credits)

BIO 181	Anatomy and Physiology I	4
BIO 182	Anatomy and Physiology II	4
CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
PHY 166	General Physics I	5
PHY 167	General Physics II	5

GENERAL ELECTIVES:

BIO 166 and BIO 167, PSY 166 and PSY 217 are recommended as general electives but are not required for this major.

BS to MS Dual Credit Opportunity

Undergraduate students majoring in Exercise Science with 90 or more credits and a minimum of a (3.0) cumulative index and (3.0) index in the major may be permitted to enroll in up to 12 credits of graduate coursework for the College's M.S in Human Performance & Fitness. The following graduate courses may be taken in place of related undergraduate courses: EXS 504 for EXS 326; EXS 505 for EXS 342; EXS 615 for EXS 315; EXS 616 for EXS 316. The student must receive permission from the department prior to registration.

Exercise Science Minor (12-20 Credits)

Option 1: Exercise Science (12-20 Credits)

12 credits in EXS courses, including:

EXS 264	Introduction to Exercise Science	3
EXS 323	Exercise Physiology	3

EXS 323: *BIO 181 and BIO 182 (8 credits) are prerequisites for EXS 323 and can be used to fulfill the Life & Physical Sciences and Scientific World areas in the Pathways General Education requirements. Students who complete the pre-requisite before declaring the minor may complete Option 1 of the minor in 12 credits.

Option 2: Fitness and Wellness (12 Credits)

12 credits, including 9 credits in EXS courses, plus 3 credits in:

EXS 264	Introduction to Exercise Science	3
EXS 424	Principles and Practices of Fitness and Wellness Programming	3
HSD 240	Nutrition and Health	3
One additional EXS course		3 credits

Health Education and Promotion, B.S. (48-57.5 Credit Major)

Health education aims primarily to motivate individuals and groups in various settings to assume greater responsibility for their health by learning and adopting behaviors that promote health and prevent disease. This is a rapidly expanding field that has received added impetus from recent Federal legislation emphasizing disease prevention and health promotion as major priorities of national social policy.

The program is designed to prepare students for careers in community health education. Students will be able to develop, manage, and evaluate health education and promotion programs in a variety of settings where such programs are implemented. These include public and community agencies, business and industry, hospitals, and other types of clinical facilities.

The program includes two options, one in community health and the other in community health and nutrition. Satisfactory completion of all program requirements in community health enables students to apply for certification as a Health Education Specialist, awarded by the National Commission for Health Education Credentialing.

Courses to be taken by all program majors (30 credits)

12 credits in Department courses:

HSD 240	Nutrition and Health	3
HSD 266	The U.S. Health Care Delivery System	3
HSD 269	Fundamentals of Biostatistics for Health Professionals	3
HSD 306	Epidemiology	3

18 credits in Health Education and Promotion:

HEA 249	Foundations of Health	3
HEA 267	Human Behavior and Health	3
HEA 300	Introduction to Public Health	3
HEA 320	Health Counseling	3
HEA 400	Program Planning and Evaluation	3
HEA 437	Strategies in Community Health	3

and Nutrition Education

Option 1: Community Health (48-49 credits)

Additional courses to be taken (18-19 credits)

14-15 credits in Health Education and Promotion:

HEA 440	Seminar in Community Health	2
HEA 470	Internship in Community Health	4
	I	
HEA	HEA electives	8-9

HEA electives: Chosen in consultation with the adviser.

4 credits in Biological Sciences:

BIO 183	Human Biology	4
---------	---------------	---

BIO 183: This course also satisfies a General Education requirement.

Option 2: Community Health and Nutrition (57.5 credits)

Additional courses to be taken (27.5 credits)

12 credits in Dietetics, Foods, and Nutrition:

DFN 120	The Nature and Science of Food	3
DFN 220	Foods, Society, and Health	4
DFN 341/DFN 241	Nutrition Throughout the Life Cycle	3
DFN 472	Field Experience in Community Nutrition	2

3 credits in Exercise Science:

EXS 264	Introduction to Exercise Science	3
EXS 265	Behavioral Aspects of Physical Activity	3

4.5 credits in Chemistry:

CHE 114	Essentials of General Chemistry Lecture	3
CHE 115	Essentials of General Chemistry Laboratory	1.5

CHE 114, CHE 115: These courses also satisfy a General Education requirement.

8 credits in Biological Sciences:

BIO 181	Anatomy and Physiology I	4
BIO 182	Anatomy and Physiology II	4

BIO 181, BIO 182: These courses also satisfy a General Education requirement.

Dual Credit Option

Undergraduate students majoring in Health Education and Promotion with 90 or more credits and a minimum of a (3.0) cumulative index and (3.0) index in the major may be permitted to enroll in up to 12 credits of graduate coursework for the College's Online M.A. degree in Health Education and

Promotion. The following graduate courses may be taken in place of these undergraduate courses: HEA 623 (for HEA 400), HEA 675 (for HEA 437), and two HEA 500-level electives (for two HEA 300-level electives). Written permission from both the academic undergraduate and graduate advisors must be secured by the student prior to registration.

Health Education and Promotion Minor

The minor in Health Education and Promotion requires 12 credits.

Courses must include:

HEA 249	Foundations of Health	3
HEA 267	Human Behavior and Health	3
HEA	HEA courses	6

HEA courses: At the 300 level or above.

Honors in Health Education and Promotion

Departmental honors in Health Education and Promotion may be awarded to a student who has a cumulative GPA of 3.2 or higher and a Major GPA of 3.5 or higher.

Honors in Health Education and Promotion Prior to Spring 2019

For previous bulletins click [here](#)

Health Services Administration, B.S. (54 Credit Major)

The program in Health Services Administration provides an economically and culturally diverse undergraduate student population with the critical knowledge and skills needed by health services managers who will work with clinicians to manage health care delivery systems, hospitals, organized physician groups, community health facilities (including ambulatory care facilities), nursing homes, extended care facilities, financing and insurance agencies, managed care organizations, and other organizations which either directly provide critical personal health care services or support the provision of those services.

This program serves a number of purposes:

- To give students an enhanced capacity and opportunity to seek and obtain challenging administrative positions which allow them to plan, implement, and manage a wide variety of health services which are delivered in a comprehensive range of health services organizations and settings.
- To provide students with an educational background which helps them to pursue a variety of health services career options, including certification and licensure options: for instance, an HSA major can help students meet the

professional requirements which will make them eligible for admission to the New York State Licensing Examination for Nursing Home Administrators.

- To prepare students for graduate study in Health Services Administration.

Admission Requirements

An application for admission to the program in Health Services Administration requires a cumulative index of 2.5 for admission.

Distribution of Required Courses and Credits

The distribution of courses and credits to be earned by majors pursuing the general program in Health Services Administration is as follows (54 credits):

9 credits in Departmental courses:

HSD 266	The U.S. Health Care Delivery System	3
HSD 269	Fundamentals of Biostatistics for Health Professionals	3
HSD 306	Epidemiology	3

18 credits in Health Services Administration:

HSA 267/BBA 267/HSA 267	Management of Health Organizations	3
HSA 301/HSA 301/BBA 301	Human Resources Management and Labor Relations in Health Services	3
HSA 304/BBA 306/HSA 304	Financial Aspects of Health Care Administration	3
HSA 312/BBA 312/HSA 312	Managed Health Care	3
HSA 402/BBA 402/HSA 402	Research and Program Evaluation in Health Services Administration	3
HSA 403/BBA 404/HSA 403	Strategic Management: Health Planning in a Competitive Environment	3

6 credits in Health Services Administration Internship:

HSA 470	Health Services Administration Internship	3
---------	---	---

Departmental permission required to waive internship.

Applications for waiver must be submitted 60 days prior to the semester the internship will take place.

6 credits in Psychology:

PSY 166	General Psychology	3
	PSY One 200 or 300 Level PSY course	
	Chosen with HSA advisement	

6 credits in Economics and Accounting:

ECO 166	Introduction to Macroeconomics	3
	Or	

ECO 167	Introduction to Microeconomics	3
---------	--------------------------------	---

ACC 185	Introduction to Accounting for Non-Accounting Majors	3
	Or	

ACC 171	Principles of Accounting I	3
---------	----------------------------	---

9 credits of required electives:

Chosen from the approved list of HSA Major Electives or their equivalent in conjunction with HSA adviser or other Departmental approval as appropriate.

HSD Courses:

HSD 240	Nutrition and Health	3
HSD 308/BBA 302/HSD 308	Legal Issues in Health Care	3

HSA Courses:

HSA 320	Long-Term Care Administration	3
HSA 325	Nursing Home Administration	3
HSA 401	Quality Improvement in Health Services Organizations	3
BIO 181	Anatomy and Physiology I	4
ENW 300	Business Writing	3
ENW 307	Health and Science Writing	3
PHI 172	Contemporary Moral Issues	3
PHI 330	Business Ethics	3
SOC 240/NUR 240/SOC 240	Death, Dying, and Bereavement	3
SOC 305	Sociology of Health Care	3
PSY 335	Health Psychology	3
HIN 268	Growth and Development	3
BBA 204/BBA 204/BBA 304	Principles of Management	3
BBA 336	Business Law I	3

ENW 300 (Formerly ENW 204) (Need English Department Approval)

ENW 3070 (Need English Department Approval)

PHI 330 (PREREQS: BBA 204 or Philosophy Department Approval)

SOC 305 (Must Have Taken SOC 166)

PSY 335 (May count as an HSA Major Elective, or as meeting the 200/300 Level Psychology Requirement, but it cannot count as both)

HIN 268 (Requires Nursing Department Approval)

HEA, HPI, REC, REH, AND EXS COURSES MAY BE USED TO FULFILL THE HSA MAJOR ELECTIVE REQUIREMENTS. INDIVIDUAL COURSES MAY ALSO REQUIRE APPROVAL BY THE PROFESSOR WHO TEACHES THE COURSE.

NOTE: Students who declared the Health Services Administration (HSA) Major **prior to September 15, 2017** must follow the required curriculum for the 55 Credit Subplan for that major. Information concerning those requirements is available from the HSA Program in Gillet Hall, and by clicking here.

Students who declare an HSA Major **after September 14, 2017** will follow the required curriculum for the 54 Credit Subplan as indicated in the current catalog.

Honors in Health Services Administration

Departmental honors in Health Services Administration may be awarded to a student who has met the general requirements for Departmental honors, including maintaining a 3.5 index in a minimum of 24 HSA credits.

Health Services Internship

Senior students in Health Services Administration must complete an 8-credit administration internship during which they spend 28 hours a week working at a healthcare facility. If necessary, students may complete the internship over the course of two semesters.

Health Services Administration Minor

The minor in Health Services Administration consists of 12 credits.

These must include:

HSD 266	The U.S. Health Care Delivery System	3
HSA 267/BBA 267/HSA 267	Management of Health Organizations	3
	HSA/HSD courses	6

HSA/HSD courses: At the 300 level or, with the instructor's permission, at the 400 level (excluding HSA 440, HSA 441, HSA 470, and HSA 471).

Public Health, B.S. (48 Credit Major)

The major is being closed and is not accepting new students.

The Bachelors of Science in Public Health (BSPH) program prepares students for the professional practice, service and advance training like graduate school. The program trains students in core methods, theories and concepts so that they may apply these to improve health access and equity. The program has a particular emphasis on the health needs of global communities, and through international collaborations at Lehman College, students may add a global experience to their training.

Students complete a core course series, program track courses, and an internship experience to apply their knowledge in a

local or global setting. Also, students take a capstone seminar as a culminating learning experience for the program.

The program is designed to prepare students for careers in public health such as: Peace Corps, city health agencies, nonprofit organizations, international organizations, and higher educational institutions. After completing the program, students will be able to develop, manage, and evaluate public health programs while working with communities in diverse settings. Additionally, the program provides foundational training to prepare students for graduate school including law school and masters and doctoral programs in public health.

The basic distribution of credits for this major appears in Table 1, followed by course lists.

Table 1: Distribution of credits for the Public Health major.

Component	Credits
Core Courses	24
Specialization Courses: GISc or Global Health	18
Fieldwork and Capstone	6

Degree Requirements

24 credits in Required Core Courses

HEA 300	Introduction to Public Health	3
	Or	
PHE 304	Fundamentals of Global Health	3
HSD 269	Fundamentals of Biostatistics for Health Professionals	3
HSD 306	Epidemiology	3
HEA 267	Human Behavior and Health	3
HSD 266	The U.S. Health Care Delivery System	3
HEA 400	Program Planning and Evaluation	3
PHE 302	Social and Environmental Determinants of Health	3
PHE 303	Approaches to Public Health Research	3

Students may take either HEA 300 or PHE 204

18 credits in Geographic Information Science (GIS) Specialization

12 Credits in Required Specialization Courses

GEP 204	Basic Mapping: Applications and Analysis	3
GEP 205	Principles of Geographic Information Science	3
GEH 320	Population Geography	3
GEP 310	Geography of Urban Health	3

6 credits in GIS Specialization Electives selected from the following:

GEH 240	Urban Geography	3
GEH 232	Medical Geography	3
GEP 321	Introduction to Remote Sensing	4
GEP 330	Spatial Statistics and Advanced Quantitative Methods in Geography	3
GEP 360	Geovisualization and Analytic Cartography	4
GEP 350	Special Projects in Geographic Information Systems	4
GEH 490	Honors in Geography	One semester, 2, 3, or 4 (may be repeated for a maximum of 6).

18 Credits in Global Health Specialization**12 Credits in Required Specialization Courses**

PHE 305	Community-based Participatory Research Methods	3
PHE 306	Global Burden of Communicable and Non-Communicable Disease	3
PHE 307	Emergency Preparedness at the Community Level	3
PHE 360	Special Topics in Public Health	3

6 Credits in Global Health Specialization Electives selected from

HEA 302/HEA 302/WST 303	Women and Health	3
HEA 211	Perspectives on AIDS	3
POL 343	International and Regional Organizations	3
HEA 348	Latino Health	3
PHE 340	Global Nutrition and Disease	3
GEH 232	Medical Geography	3

6 Credits in Required Fieldwork and Capstone for both Specializations

PHE 470	Public Health Field Experience	3
PHE 472	Public Health Capstone	3

Admission Requirements

To be considered for admission to the B.S. in Public Health, an application must:

1. Have a minimum GPA of 3.0.

Public Health Minor (15 Credits)

Students may complete a minor field with the following five courses in the Department of Health Sciences:

HSD 266	The U.S. Health Care Delivery System	3
HSD 269	Fundamentals of Biostatistics for Health Professionals	3
HSD 306	Epidemiology	3
HEA 300	Introduction to Public Health	3
	One elective	3

HSD 269: PREREQ: MAT 132.

One 3-credit elective: DFN, EXS, HEA, HSA, HSD, REC, or REH course.

Recreation Education, B.S. (40 Credit Major)

The program in Recreation Education leads to the B.S. degree and is designed to prepare students for entry into the recreation and leisure services profession. Recreation and leisure services are provided in a variety of settings serving people of all ages in carefully planned and organized recreation programs. Students may specialize in therapeutic recreation, administration, or exercise and sport. Therapeutic recreation specialists are employed in health and human service settings, such as hospitals, nursing homes, adult day care, youth agencies, drug treatment centers, and homeless shelters; they work with people with a variety of disabilities and health conditions. Students are eligible to sit for the national certification examination for certified therapeutic Recreation Specialist (CTRS), administered by the National Council for Therapeutic Recreation Certification.

Students in the administration option are employed in public park and recreation agencies, not-for-profit organizations, such as PAL and the YMCA, health and fitness centers, camps, and sports associations. Students in this specialization have met the academic requirements, upon graduation, to sit for the national certifying examination for Certified Park and Recreation Professional (CPRP), administered by the National Recreation and Park Association. Students in the Exercise and Sport option can work as programmers, fitness trainers, group exercise leaders or coaches, in sports and fitness programs in a variety of settings. Students are prepared to obtain various fitness certifications from several national organizations. Fieldwork and internship experiences are important components of the major, which give students the opportunity to apply theory to practice in an actual work setting under the supervision of a qualified professional.

The required courses and credits are distributed as follows (40 credits):

15 credits in Recreation Education:

REC 200	History and Philosophy of Recreation	3
REC 210	Recreation Leadership	3
REC 221	Introduction to Therapeutic Recreation Service	3
REC 302	Administration of Recreation Services	3
REC 387	Research and Evaluation in Recreation Service	3

9 credits in one of three options:

Therapeutic Recreation:

REC 325	Therapeutic Recreation in Long-Term Care	3
REC 421	Programs in Therapeutic Recreation Service	3
REC 425	Processes and Techniques of Therapeutic Recreation	3

Administration:

REC 360	Selected Topics in Recreation	3
REC 361	Camp Leadership and Outdoor Recreation	3
REC 422	Program Planning in Recreation	3

Exercise and Sport:

EXS 264	Introduction to Exercise Science	3
EXS 265	Behavioral Aspects of Physical Activity	3
EXS 304	Coaching Youth and Team Sports	3

8 credits Selected from:

REC, REH, EXS, DNC, DFN, HEA, HSA, and/or HSD courses with Departmental approval.

8 credits in Recreation Internship:

REC 370	Recreation Internship	4
REC 470	Senior Internship in Recreation	4

B.S.-M.S. Ed. Dual Credit Option in Recreation Education (Option A Only)

Undergraduate students majoring in Recreation Education with 90 or more credits and a minimum of a (3.0) cumulative index and (3.0) index in the major may be permitted to enroll in up to 12 credits of graduate coursework for the College's M.S.Ed. in Recreation Education Option A: Recreation and Park Administration. The following graduate courses may be taken in place of these undergraduate courses: REC 702 (in place of REC 422), 706 (in place of REC 361), 680 (in place of 360), and 680 (in place of any other 300-level elective).

The student must receive permission from both the academic undergraduate and graduate advisors.

Recreation Minor

Students may complete a minor field with one of the following options:

a. Recreation:

REC 200	History and Philosophy of Recreation	3
REC 210	Recreation Leadership	3

AND

Two of the following:

REC 221	Introduction to Therapeutic Recreation Service	3
REC 360	Selected Topics in Recreation	3
REC 361	Camp Leadership and Outdoor Recreation	3
REC 302	Administration of Recreation Services	3
REC 422	Program Planning in Recreation	3

b. Therapeutic Recreation:

REC 200	History and Philosophy of Recreation	3
REC 221	Introduction to Therapeutic Recreation Service	3

AND

Two of the following:

REC 324	Therapeutic Recreation for Children and Youth	3
REC 325	Therapeutic Recreation in Long-Term Care	3
REC 421	Programs in Therapeutic Recreation Service	3
REC 425	Processes and Techniques of Therapeutic Recreation	3

c. Special Topics:

This option is available to students who have an interest in a particular area not covered by the above options. Option C must be approved by the Recreation Major Adviser or the coordinator of the Recreation Program.

Therapeutic Recreation, B.S. (53 Credit Major)

The required courses and credits are distributed as follows (53 credits):

12 credits in Recreation Education:

REC 200	History and Philosophy of Recreation	3
REC 210	Recreation Leadership	3
REC 387	Research and Evaluation in	3

REC 302	Recreation Service Administration of Recreation Services	3
---------	--	---

18 credits in Therapeutic Recreation:

REC 221	Introduction to Therapeutic Recreation Service	3
REC 322	Assessment in Therapeutic Recreation	3
REC 324	Therapeutic Recreation for Children and Youth	3
REC 325	Therapeutic Recreation in Long- Term Care	3
REC 421	Programs in Therapeutic Recreation Service	3
REC 425	Processes and Techniques of Therapeutic Recreation	3

10 credits in Recreation Internship:

REC 400	Pre-Internship Seminar	1
REC 471	Therapeutic Recreation Internship	1-9

13 Credits in Supportive coursework:

HIN 268	Growth and Development	3
BIO 181	Anatomy and Physiology I	4
PSY 166	General Psychology	3
PSY 234	Abnormal Psychology	3

Interdisciplinary Geriatric Team Option, B.S. (40 Credits)

Note: Students are not being admitted to this specialization at this time.

Students majoring in Recreation Education may elect this option.

The required courses and credits are as follows:

REC 200	History and Philosophy of Recreation	3
REC 210	Recreation Leadership	3
REC 221	Introduction to Therapeutic Recreation Service	3
REC 370	Recreation Internship	4
REC 387	Research and Evaluation in Recreation Service	3
REC 302	Administration of Recreation Services	3
REC 470	Senior Internship in Recreation	4
REC 421	Programs in Therapeutic Recreation Service	3
REC 425	Processes and Techniques of Therapeutic Recreation	3

The recreation internship will constitute the HPI field placement.

Developmental Disabilities Minor**Requirements:****6 credits from:**

REC 221	Introduction to Therapeutic Recreation Service	3
REH 330	Management of Youth Serving Organizations	3

REH 330: Prerequisite REH 230

6 credits from:

PSY 232	Childhood Psychopathology	3
SPV 228	Introduction to Audiology	3
ECE 301	The Child in Historical, Political and Sociocultural Contexts: Child Study and Development—Birth to Grade 6	3
ESC 301	Psychological Foundations of Middle and High School	3

PSY 232: Prerequisite REH 230

A 300-level DST course can be used to satisfy Developmental Disability Minor requirements, replacing PSY 232, SPV 228, ECE 301, ESC 301, or ESC 463.

Geriatric Health Minor**12 credits selected from:**

HEA 310	Health and Aging	3
HSA 325	Nursing Home Administration	3
REC 325	Therapeutic Recreation in Long- Term Care	3
PSY 219	Psychology of Adulthood and Aging	3
HEA 360	Selected Topics in Health	3
SWK 242	Social Work Practice with Older Adults	3

Youth Services Minor

The minor in Youth Services requires 12 credits selected from:

REH 230	Introduction to Youth Studies	3
REC 210	Recreation Leadership	3
REH 370	Practicum in Youth Services	3
REC 324	Therapeutic Recreation for Children and Youth	3
EXS 304	Coaching Youth and Team Sports	3
REH 330	Management of Youth Serving Organizations	3
PSY 217	Child Psychology	3

	Or	
PSY 218	Psychology of Adolescence	3
ECE 301	The Child in Historical, Political and Sociocultural Contexts: Child Study and Development—Birth to Grade 6	3
	Or	
ESC 301	Psychological Foundations of Middle and High School	3

History

Department Chair: Marie C. Marianetti (Carman Hall, Room 202B)

Undergraduate Advisors: Marie C. Marianetti (Carman Hall, Room 202B); Robert Valentine (Carman Hall, Room 299)

Department Faculty: Distinguished Professor: Joseph W. Dauben; Professors: Timothy Albarn, Jose Luis Rénique; Associate Professors: Martin J. Burke, Dina Le Gall, Marie C. Marianetti, Andrew W. Robertson, Robyn C. Spencer, William Wooldridge, Amanda Wunder; Assistant Professors: Rhiannon Dowling, Benjamin Holtzman; Lecturer: Robert T. Valentine

The Department of History offers a variety of courses that cover the ancient world, European civilization, the United States, and non-Western civilizations. Students are encouraged to interpret and discuss the diversity of human experience, and to think critically about the ways in which historical events affect their own lives. The Department participates in the interdisciplinary programs in African and African American Studies, Classical Culture, Latin American and Puerto Rican Studies, Women's Studies, and American Studies. The faculty members in the Department are committed to excellence in narrative and analytical historical reading and writing. They offer a variety of services to students who wish to improve their reading or writing skills, or who wish to pursue a historical problem in more depth than class time permits. Students may also study with members of the faculty on independent reading or research projects.

Career Opportunities: History majors frequently enter careers in areas such as education, law, politics, business, library work, and government. History students who wish to discuss career opportunities or advanced studies in graduate school should consult with the Department Chair.

History, B.A. (36 Credit Major)

For all students who are not enrolled in Middle and High School Education Social Studies certification sequence, the History major consists of 36 credits. History courses numbered below the 300-level do not qualify toward the major.

The 36 credits required for the fulfillment of the History major must be distributed as follows:

9 credits in:

HIA	History of Ancient and Medieval Civilization
And/Or	
HIE	History of Modern Europe

12 credits in:

HIS	Comparative History
And/Or	
HIW	Asian, African, and Latin-American History

12 credits in:

HIU	History of the United States
-----	------------------------------

3 credits in:

Any of the five subject codes.

Note: Of these 36 credits, at least 6 credits must be taken in research-intensive courses, designated with an R in the section number.

History (Teacher Education), B.A. (30 Credit Major)

Social Studies Education Specialization (30 credits)

This specialization should be taken only by students in Middle and High School Education's Social Studies Education certification sequence. The 30 credits required for the fulfillment of this specialization (all at the 300- or 400-level) must be distributed as follows:

9 credits in:

HIA	History of Ancient and Medieval Civilization
And/Or	
HIE	History of Modern Europe

9 credits in:

HIS	Comparative History
And/Or	
HIW	Asian, African, and Latin-American History

3 credits in:

HIU 348	History of New York: City and State	3
---------	-------------------------------------	---

9 credits in:

HIU	History of the United States
-----	------------------------------

Of these 30 credits, at least 6 credits must be taken in research-intensive courses, designated with an R in the section number.

Teacher of Social Studies

History is an approved major for students wishing to become middle or high school social studies teachers. Students interested in becoming teachers should meet with the History Department Undergraduate Advisor to plan their program as soon as possible in their academic career. They should also consult with the Office of the Dean of Education (Carman Hall, B-33, 718-960-4972) for the latest information on State requirements for teacher certification.

Classical Civilization and the Classical Tradition (Interdisciplinary Minor)

The Minor in Classical Civilization and the Classical Tradition provides students with an interdisciplinary approach to the literature, culture, history, politics, philosophy, mythology, and archaeology of the ancient Greek and Roman civilizations. The program is offered as a minor field that complements a wide variety of majors. It is particularly valuable for students whose major field of study is in the Arts and Humanities, including English, History, Languages and Literatures, and Philosophy, as well as for certain majors in the Social Sciences, including Anthropology, Political Science, and Psychology. Ancient Greek and Latin languages are not required for the minor.

Degree Requirements

Students who minor in Classical Civilization and the Classical Tradition conduct their course of study in consultation with the Minor's Coordinator. They satisfy the College requirement of a minor field by taking four courses (12 credits), at least two of which must be at the 300-level.

Introduction to Classical Civilization and the Classical Tradition (3 credits):

All students take a single introductory three-credit course:

HIS 246/HIS 246/HIS 276	Civilizations of the Ancient World	3
Or		
ACU 266	Classical Myth and the Human Condition	3

Electives are divided into two broad categories of courses:

Students choose one course from Category I, one course from Category II, and a third course from either category.

I. Classical Literature and Classical Culture

ACU 305	Greek Literature in Translation	3
ACU 307	The Greek and Roman Epic in English Translation	3
ACU 308	Greek and Roman Tragedy in English Translation	3
HIA 311/ACU 311/HIA 311	Women in Antiquity	3

HIA 314	Classical Myth and Society	3
---------	----------------------------	---

HIA 314: Students who have completed ACU 266 will not receive credit for HIA 314.

II. Classical History and Classical Archaeology

HIA 306	History of Religions in the Ancient World	3
HIA 316/ACU 316/HIA 316	Greek Archaeology of the Classical Period	3
HIA 318/ACU 318/HIA 318	Roman Archaeology and Topography	3
HIA 320	Greek History	3
HIA 321	History of Rome	3

Students may replace an elective with ACU 350 and/or HIA 350 (Special Topics) or ACU 381 and/or HIA 381 (Individual Tutorial), but only if their chosen course is not offered in a given semester.

History Minor (12 credits)

Requirements for the Minor in History:

The History minor consists of 12 credits (four 3-credit courses). These shall be selected from 200-, 300-level courses. At least two courses must be at the 300-level.

Human Rights and Peace Studies

Human Rights and Peace Studies (Interdisciplinary Minor)

Interdisciplinary Minor in Human Rights and Peace Studies offered by the Anthropology department.

Program Description: 15-Credit Minor in Human Rights and Peace Studies

The Minor in Human Rights and Peace Studies provides students with a unique, holistic, and interdisciplinary approach to the protection of fundamental human entitlements and the development of peaceful social relations. It is a key curricular endeavor of the Center for Human Rights and Peace Studies at Lehman College. Although the Minor is particularly valuable for those majoring in fields related to society and the law, such as Political Science, Philosophy, Sociology, Anthropology, and History, it also complements various professional programs dealing with fundamental human interests and cross-border interactions. The Minor will be housed in the Department of Anthropology.

Minor Requirements

Students will complete the Minor by choosing five of the courses listed below, all of which are substantially concerned with human rights and/or peace studies, for a total of 15 credits. All students must take the introductory course, HRP (PHI) (POL) 218 Fundamentals of Human Rights and Peace.

At least three of the four electives must be in courses at the 300-level or higher.

Core (3 credits):

HRP 218/PHI	Fundamentals of Human Rights	3
218/POL	and Peace	
218/HRP 218		

Electives (12 credits):

PHI 173	Justice and Society	3
AAS 305/AAS	African Philosophical	3
305/PHI 305	Thought	
DST 336/DST	Disability, Ethics & the	3
336/PHI 336	Body	
POL 369/PHI	Global Justice	3
369/POL 369		
ANT 238/LAC	Selected Studies in	3
238/ANT 238	Societies and Culture:	
	Latin America	
ANT 3500/HRP	Anthropology and	3
3500/ANT 3500	Human Rights	
SOC 309	Social Inequality	3
LAC 210/ANT	Women in Latin America	3
210/LAC		
210/WST 210		
LAC 312/LAC	Latino Migrations	3
312/LAC 232		
HIU 318	History of American	3
	Foreign Relations, 1912-	
	Present	
HIU 330/AAS	The Civil Rights	3
330/HIU 330	Movement	
POL 230	Immigration and	3
	Citizenship	
POL 315	The Politics of American	3
	Poverty	
POL 339	Human Rights	3
POL 343	International and	3
	Regional Organizations	
POL 344	International Law	3
POL 347	The Law of Diplomacy,	3
	Treaties, and War	
POL 348	International Conflict and	3
	Conflict Resolutions	
POL 367	Political Economy of	3
	Development	
POL 368	Global Environmental	3
	Politics	
POL 4720	Model United Nations	3
		(maximum
		6).
HRP 3520/ANT	Special Topics in Human	3
3520/HRP	Rights and Peace Studies	
3520/POL 3520		

HRP 4730/ANT	Internship in Human	(Minimum
4730/HRP	Rights and Peace Studies	of 8 field
4730/POL 4730		hours/week
		and one
		hour
		weekly
		meeting
		with a
		faculty
		member), 1
		semester,
		3.
SOC 323	Social Movements,	3
	Social Inequality and	
	Public Policy	
SOC 325	Society, Economy, and	3
	Polity in the Middle East	
ENW 345	Writing and Social Issues	3

Irish Studies

Steering Committee: Deirdre O'Boy (Lecturer, English); Martin Burke (Associate Professor, History); Thomas Ihde (Professor, Languages & Literatures)

The Minor in Irish Studies provides students with an interdisciplinary approach to the culture, history, language, and literature of Ireland and the diaspora. The minor will serve students who are majoring in fields where global and cross-cultural awareness are especially valuable, such as business, political science, and health services; in such humanities-based fields as art, literature, history, and music; and in related multimedia fields.

Irish Studies (Interdisciplinary Minor)

Minor Requirements

The requirements for the minor consist of four courses (12 credits), at least two of which must be at the 300 level or higher, chosen from the following:

Requirements (12 credits):

IRI 201	Intermediate Irish Grammar	3
IRI 202	Intermediate Irish Reading and	3
	Composition	
IRI 207	Conversational Irish	3
IRI 230	Irish-Language Cinema	3
ENG 324	Modern British and Anglophone	3
	Literature	
ENG 337	Irish Literature	3
HIE 333	Modern Ireland	3
HIS 334	The Irish Diaspora	3

Italian-American Studies

Committee Members: Professors Madeline Moran and Manfredi Piccolomini

Cooperating Departments: Anthropology, Art, English, History, Languages and Literatures, Music, Political Science, and Sociology

The program in Italian-American Studies is an interdisciplinary major that focuses on Italian-American experiences as they relate to both the Italian and American contexts. The program provides the student with the opportunity to investigate the social, cultural, psychological, historical, and esthetic dimensions of the Italian-American experience. The major in Italian-American Studies offers an area of specialization for students who plan graduate training in ethnic studies, and for those who expect to teach in urban areas where there are large numbers of Italian-Americans.

For those students who will pursue advanced degrees in the arts, the humanities, or in the various social and behavioral sciences, a major in both the field of their choice and in Italian-American Studies, a dual major, permits a specialty within the academic discipline. The curriculum has practical applicability to teaching at all levels, and to the service-oriented professions (medicine, psychology, social work, law, etc.). A dual major is required of all students majoring in Italian-American Studies, except those preparing to qualify for an Initial Certificate in education. In most instances, 12 credits from the second major may serve as part of the Italian-American Studies major as well (see the outline of requirements below).

In consultation with a member of the Italian-American Studies Committee, each student will formulate an individual program of study, without reference to traditional departmental fields. The program thus offers the opportunity to investigate those features of Italian-American culture that match student interests. Special courses emphasizing research and critical thought, such as seminars and tutorials taught by participating faculty, will be provided to synthesize the work of each student in the major.

Program Procedure

Each semester the Committee on Italian-American Studies will advise students in the program of the appropriate courses to be offered in the ensuing semester by departments participating in the program, as well as of courses to be offered by the Italian-American Studies program. Each student majoring in Italian-American Studies must receive the Committee's approval before registering for any course to be credited toward the major.

NOTE: Cross-listed courses may be taken for credit in either IAS or in the department in which the course originates.

Italian-American Studies, B.A. (36 Credit Major)

The interdisciplinary major in Italian-American Studies consists of 36 credits in courses distributed as follows:

36 credits (12 selected from the following):

IAS 303/HIU	The History of Italian-	3
324/IAS 303	Americans	
IAS 250/ANT	The Italian-American	3
250/IAS 250/SOC	Community	
250		

12 credits selected from the following related courses:

No more than three history courses may be included:

ITA 233	Italo-American Contributions	3
PSY 336	The Psychology of Ethnicity	3
MSH 239	Italian Opera	3
ARH 332	Art of the Early Renaissance	3
ARH 333	Art of the High Renaissance	3
	and the Later Sixteenth Century	
IAS 245/IAS	Italy Today	3
245/ITA 245		
IAS 450	Topics in Italian-American	3
	Studies	
IAS 481	Tutorial in Italian-American	3
	Studies	
IAS 495	Special Project in Italian-	3
	American Studies	

IAS 495: Or other appropriate courses as approved by the program coordinator.

12 credits

In a single discipline related to the student's academic and professional interests and goals. With the approval of the program coordinator, credits from the dual major may be applied to this requirement, where appropriate.

IAS 481, IAS 495: No more than a total of 6 credits may come from IAS 481 and IAS 495.

Italian-American Studies Minor

Requirements

Students should arrange their program with the Italian-American Studies Committee. In order to satisfy the requirements for a minor, students must earn 12 credits, of which 6 credits must be in 300- or 400-level courses.

Journalism and Media Studies

Department Chair: Thomas O'Hanlon (Carman Hall, Room 263)

Faculty and Staff: Associate Professors: Nicholas Boston, Thomas O'Hanlon; Assistant Professors: Jonah Brucker-Cohen, James Carney, Eileen Markey, Christine McKenna;

Lecturers: Ulises Gonzales, Jennifer MacKenzie, Philip Ruiz, Marisa White; Senior College Laboratory Technician: Yves Dossous; Media Manager: Orlando Lorca

Journalism, B.A. (42-43 Credit Major)

The Journalism major consists of 42-43 credits in one of two concentrations: Journalism or Multilingual Media. Students must complete all core requirements before taking area of concentration courses. Students in Multilingual Media must select a language other than English (LOTE) and must achieve the level of proficiency required by the LOTE courses chosen. Students choose two courses of three in translation, advanced writing, phonetics and diction in the chosen LOTE. The total number of credits (42 or 43) depends on whether students participate in the Journalism Honors Program.

Note: Students must complete JRN 491 and its COREQ JRN 492 to be eligible for Departmental Honors upon graduation.

Note: All 300 and 400-level Journalism courses have either a specific course prerequisite, or require completion of 60 credits and department permission.

REQUIRED CORE (24 credits)

Students must complete the following courses before proceeding to the concentration:

JRN 211	Introduction to Multilingual Media	3
FTS 212	Introduction to Film and Television	3
MCS 214	Introduction to Media and Digital Culture	3
JRN 221	Reporting I	3
JRN 222	New Media	3
JRN 223	Journalism Ethics	3
JRN 307	Multimedia Editing and Proofreading	3
JRN 321	Reporting II	3

REQUIRED CONCENTRATION (18-19 credits)

Each student must complete a concentration either in Journalism or in Multilingual Media.

Concentration in Journalism (18-19 credits).

Required courses (15 credits):

JRN 320	Interviewing for Mainstream and Ethnic Media	3
JRN 323	Feature Writing	3

Choose two of the following three courses:

JRN 300	The Bronx Journal Online Advanced Workshop	3
JRN 302	Covering Race, Gender, and Ethnicity	3
JRN 322	Online News Page Design and	3

Editing

3 credits Elective:

To be chosen after consultation with advisor.

3-4 Credits. Capstone:

	Either	
JRN 481	Independent Project in Journalism	3
	Or	
JRN 491	Honors Tutorial in Journalism	3
JRN 492	Honors Colloquium in Journalism	1

To enroll in the honors capstone courses, JRN 491 and JRN 492, students must have earned at least 90 credits, have a 3.5 GPA in the major, and have department permission. JRN 491 and JRN 492 must be taken together.

Note: Only students who complete JRN 491 and its COREQ JRN 492 will be eligible for Departmental Honors upon graduation.

Concentration in Multilingual Media (18-19 credits).

Required courses (15 credits):

JRN 320	Interviewing for Mainstream and Ethnic Media	3
JRN 323	Feature Writing	3

6 Credits. Foreign language (LOTE):

Students must select a target language other than English and complete two of the following types of courses on translation, advanced writing, and phonetics in that language. For example, the student completes two courses from one target language group:

French:

FRE 307	Advanced Translation	3
FRE 306	Advanced Composition	3
FRE 308	Theory and Practice of French Phonetics	3

Italian:

ITA 307	Advanced Translation	3
ITA 303	Advanced Grammar and Composition	3
ITA 308	Theory and Practice of Italian Phonetics	3

Spanish:

SPA 307	Translation	3
SPA 306	Advanced Spanish Composition	3
SPA 308	Spanish Phonetics and Diction	3

Students may complete courses in another target language as approved by the Department.

3 credits Elective:

To be chosen after consultation with advisor.

3-4 Credits. Capstone:

JRN 481	Either	3
	Independent Project in Journalism	
JRN 491	Or	3
	Honors Tutorial in Journalism	
JRN 492	Honors Colloquium in Journalism	1

To enroll in the honors capstone courses, JRN 491 and JRN 492, students must have earned at least 90 credits, have a 3.5 GPA in the major, and have department permission. JRN 491 and JRN 492 must be taken together.

Note: Only students who complete JRN 491 and its COREQ JRN 492 will be eligible for Departmental Honors upon graduation.

Journalism Minor

The minor in Journalism consists of 12 credits selected from the list of the required courses for the Journalism (JRN) major.

Journalism Minor is distributed as follows:

12 Credits:

JRN 211	Introduction to Multilingual Media	3
	One JRN 200-level course	
	One JRN 300-level course	
	One JRN 400-level course	

Film and TV Studies, B.A. (42-43 Credit Major)

The Film and TV Studies major consists of 42-43 credits in one of two concentrations: Film or TV. Students must complete all core requirements before taking area of concentration courses. The total number of credits (42 or 43) depends on whether students participate in the Film and TV Studies Honors Program.

Note: Students must complete FTS 491 and its COREQ FTS 492 in order to be eligible for Departmental Honors upon graduation.

Note: All 300 and 400-level Film and TV Studies courses have either a specific course prerequisite, or require completion of 60 credits and department permission.

REQUIRED CORE (21 credits)

Students must complete the following courses before proceeding to the concentration:

JRN 211	Introduction to Multilingual Media	3
FTS 212	Introduction to Film and Television	3
MCS 214	Introduction to Media and	3

Digital Culture

FTS 209	Either	3
	History of Cinema I	
FTS 210	Or	3
	History of Cinema II	
FTS 215	Camera and Lighting	3
FTS 224	Editing	3
FTS 226	Audio Production	3

REQUIRED CONCENTRATION (21-22 credits)

Each student must complete a concentration either in Film or in TV.

Concentration in Film (21-22 credits).**Required courses (15 credits):**

FTS 258	Film & TV Analysis	3
FTS 218	Animation and Anime Narrative	3
FTS 309	Screenwriting	3
FTS 316	Film and Video Production	3
FTS 420	Cinema Aesthetics and Criticism	3

3 credits Elective:

To be chosen after consultation with advisor.

3-4 credits Capstone:

FTS 481	Either	3
	Independent Project in Film and TV Studies	
FTS 491	Or	3
	Honors Tutorial in Film and TV Studies	
FTS 492	Honors Colloquium in Film and Television Studies	1

To enroll in the honors capstone courses, FTS 491 and FTS 492, students must have earned at least 90 credits, have a 3.5 GPA in the major, and have department permission. FTS 491 and FTS 492 must be taken together.

Note: Only students who complete FTS 491 and its COREQ FTS 492 will be eligible for Departmental Honors upon graduation.

Concentration in TV (21-22 credits).**Required courses (15 credits):**

FTS 258	Film & TV Analysis	3
FTS 316	Film and Video Production	3
FTS 317	Writing for Broadcast TV and Radio	3
FTS 371	TV and Cultivation Theory	3
FTS 352	Television Production	3

3 credits: Elective:

To be chosen after consultation with advisor.

3-4 Credits Capstone:

FTS 481	Either Independent Project in Film and TV Studies	3
FTS 491	Or Honors Tutorial in Film and TV Studies	3
FTS 492	Honors Colloquium in Film and Television Studies	1

To enroll in the honors capstone courses, FTS 491 and FTS 492, students must have earned at least 90, have a 3.5 GPA in the major, and have department permission. FTS 491 and FTS 492 must be taken together.

Note: Only students who complete FTS 491 and its COREQ FTS 492 will be eligible for Departmental Honors upon graduation.

Film and TV Studies Minor

The minor in Film & TV Studies Minor consists of 12 credits selected from the list of the required courses for Film & TV Studies (FTS) major.

Film & TV Studies Minor is distributed as follows:

12 Credits:

FTS 209	History of Cinema I	3
	Or	
FTS 210	History of Cinema II	3
	And	
	One FTS 200-level course	
	One FTS 300-level course	
	One FTS 400-level course	

Media Communications Studies, B.A.

The Media Communications Studies major consists of 42-43 credits. Students must complete all core requirements before taking required courses. The total number of credits (42 or 43) depends on whether students participate in the Media Communications Studies Honors Program.

Note: All 300 and 400-level Media Communications Studies courses have either a specific course prerequisite, or require completion of 60 credits and department permission.

REQUIRED CORE (21 credits)

Students must first complete the following courses:

JRN 211	Introduction to Multilingual Media	3
FTS 212	Introduction to Film and Television	3
MCS 214	Introduction to Media and Digital	3

	Culture	
MCS 210	Global Cinema	3
MCS 220	Introduction to Public Relations	3
MCS 244	Communication in Society	3
MCS 307	Media Industries I	3

SPECIALIZED REQUIREMENTS (21-22 credits)

MCS 300	Corporate Communication	3
MCS 308	Media Industries II	3
MCS 334	The Documentary	3
MCS 347	Advertising	3
FTS 420	Cinema Aesthetics and Criticism	3
	Elective	3

3 credit Elective: To be chosen after consultation with advisor.

3-4 Credits. Capstone:

	Either	
MCS 481	Independent Project in Media Communications Studies	3
	Or	
MCS 491	Honors Tutorial in Media Communications Studies	3
MCS 492	Honors Colloquium for Media Communications Studies	1

Note: To enroll in the honors capstone courses, MCS 491 and 492, students must have earned at least 90 credits, have a 3.5 GPA in the major, and have department permission. MCS 491 and MCS 492 must be taken together.

Note: Only students who complete MCS 491 and its COREQ MCS 492 will be eligible for Departmental Honors upon graduation.

Media Communications Studies Minor

The minor in Media Communications Studies consists of 12 credits selected from the list of the required courses for the Media Communication Studies (MCS) major.

Media Communications Studies Minor is distributed as follows:

12 Credits:

MCS 214	Introduction to Media and Digital Culture	3
	One MCS 200-level course	
	One MCS 300-level course	
	One MCS 400-level course	

Languages and Literatures

Department Chair: Daniel Fernández (Carman Hall, Room 257)

Department Faculty: Professors: Thomas Ihde, Gary S. Schwartz, Thomas C. Spear; Associate Professors: Karin

Beck, Alexandra Collier, Carmen Esteves, Daniel Fernández, Beatriz Lado, Óscar Martín, María del Carmen Saén de Casas; Assistant Professors: Evelyn Duran-Urrea, Amin Erfani, Francisco Montaña, Juan Jesús Payán, Marco Ramirez Rojas; Lecturer: Asako Tochika

The Department of Languages and Literatures offers a wide variety of language and literature courses in Arabic, Chinese, French, German, Greek, Irish, Italian, Latin, Japanese, and Spanish. The Department also offers courses in literature and culture conducted in English, some of which satisfy the distribution requirement. In addition, a special Spanish-language sequence is offered for heritage speakers of Spanish to enable them to preserve and enhance their knowledge of Spanish. Students may major in French, Italian, Latin, or Spanish. Students wishing to major in Irish or Japanese may avail of the Comparative Literature program. In addition to Comparative Literature, the Department also participates in three other interdisciplinary programs in Latin American and Caribbean Studies, Linguistics, and Multimedia Journalism. For students majoring in fields with international or global goals, the Department offers courses in phonetics, business, translation, reading in the arts and sciences, and health professions. Students may also declare a minor in language programs that offer intermediate and advanced level courses. Minors in the Department consist of 12 credits above the 100 level. A minimum of two courses must be taken at the 300 or 400 level. The Department currently offers minors in Arabic, Chinese, Classical Greek, French, Irish, Italian, Japanese, Latin, and Spanish.

Placement in Courses: The Department places entering students on the basis of proficiency shown on tests administered before registration, in addition to an approximate placement based on a certain number of years of language study in high school. A Departmental adviser is available throughout the summer registration period.

Teaching and Other Careers: A student majoring in a language will receive a solid foundation for graduate study and may look forward to a career in many areas of business, industry, government service, and mass communication as well as in teaching at all levels from elementary school to college. Students planning to teach a language in secondary school should consult their major advisers, as well as the Office of the Dean of Education (Carman Hall, Room B-33, 718-960-4972) regarding requirements for New York State teacher certification.

Opportunities for Study Abroad: The Department encourages students to develop linguistic proficiency and first-hand cultural knowledge by participating in credit-bearing programs of study abroad. Lehman students have received credit for study in many places, including Argentina, Australia, Canada, Chile, China, the Dominican Republic,

Ecuador, England, France, Greece, India, Ireland, Italy, Japan, Jordan, South Korea, Puerto Rico, Russia and Spain. Additional programs are being developed to offer a wider geographical and content choice. Students need not be language majors or minors to study abroad.

Bachelor of Arts Degrees offered by the Department

- French
- Italian
- Latin
- Spanish

Minors offered by the Department

- Arabic
- Chinese
- Classical Greek
- French
- Irish
- Italian
- Japanese
- Latin
- Spanish

Bachelor of Arts Degrees offered through Interdisciplinary Programs

- Comparative Literature, specializations in Irish or Japanese among other possibilities.
- Latin American and Caribbean Studies
- Linguistics
- Multilingual Journalism

Other Offerings

Courses in:

- Arabic
- Chinese
- German
- Literature & Culture (Conducted in English)

Arabic

Arabic Minor

Required Courses (12-18 credits)

Minor in Arabic consist of 12 credits above the 100 level*. A minimum of two courses must be taken at the 300 or 400 level.

*Depending on prior language experience, a student may need to complete up to 6 credits of 100-level Arabic as a pre-req to this minor.

Chinese

Chinese Minor

Required Courses (12-18 credits)

Minor in Chinese consist of 12 credits above the 100 level. A minimum of two courses must be taken at the 300 or 400 level.

*Depending on prior language experience, a student may need to complete up to 6 credits of 100-level Chinese as a pre-req to this minor.

Classical Languages, Literatures, and Cultures

Students may major in either Greek or Latin, or may combine the two for a Greek-Latin major. There is also a major in Classical Culture.

Classical Greek Minor

Required Courses (12 Credits)

Minors in the Department consist of 12 credits above the 100 level. A minimum of two courses must be taken at the 300 or 400 level.

Latin, B.A. (36 Credit Major)

The required credits are distributed as follows:

Credits (36)

24 credits in LAT courses.

12 credits selected from:

ACU courses or from any 300-level courses in ancient history or ancient art, or from courses in ancient philosophy. Courses in other related areas, e.g., medieval studies, may be submitted with permission of the Department chair;

Or

GRK 101	Introduction to Ancient Greek I	4
GRK 102	Introduction to Ancient Greek II	5
	3 Additional Credits	

3 Additional Credits: May be selected from the history and culture courses specified above or 12 credits from GRK courses.

Latin Minor

Required Courses (12 Credits)

Minors in the Department consist of 12 credits above the 100 level. A minimum of two courses must be taken at the 300 or 400 level.

French

The Department of Languages and Literatures offers a Bachelor of Arts in French (FRE-BA) and Bachelor of Arts French Teacher Education 7-12 (FRET-BA).

French, B.A. (30-Credit Major)

The required courses and credits are distributed as follows:

Credits (30)

9 credits in required French courses:

FRE 300	Introduction to French Literature and Literary Criticism	3
FRE 303	Advanced French Grammar	3
FRE 301	French Literature from the Middle Ages through the Seventeenth Century	3
	Or	
FRE 302	French Literature from the Eighteenth Century to the Present	3

21 credits selected from other 300- or 400-level FRE courses.

Students who anticipate graduate work in French should take at least 18 credits of French literature.

French, Teacher Education 7-12 (30-Credit Major)

The required courses and credits are distributed as follows:

Credits (30)

9 in required French courses:

FRE 300	Introduction to French Literature and Literary Criticism	3
FRE 303	Advanced French Grammar	3
FRE 301	French Literature from the Middle Ages through the Seventeenth Century	3
	Or	
FRE 302	French Literature from the Eighteenth Century to the Present	3

6 in required French courses:

FRE 3180	French Dialectology and Sociolinguistics	3
FRE 319	Francophone Cultures	3

15 Selected from other 300- or 400-level FRE courses.

Declare a minor in the Department of Middle and High School Education in Foreign Language Education after completing 50% of your required courses in the major.

Students should seek advisement each semester from both the Chair of the Department of Languages and Literatures and the Undergraduate Coordinator of the Department of Middle and High School Education.

French Minor

Required Courses (12 Credits)

Minors in the Department consist of 12 credits above the 100 level. A minimum of two courses must be taken at the 300 or 400 level.

Irish

Irish Minor

Required Courses (12 Credits)

Minors in the Department consist of 12 credits above the 100 level. A minimum of two courses must be taken at the 300 or 400 level.

Italian

The Department of Languages and Literatures offers a Bachelor of Arts in Italian (ITA-BA) and Bachelor of Arts Italian Teacher Education 7-12 (ITAT-BA).

Italian, B.A. (30-Credit Major)

The required courses and credits are distributed as follows:

Credits (30)

6 credits in required ITA courses:

ITA 303	Advanced Grammar and Composition	3
ITA 447	Dante's Divina Commedia: Inferno	3
	Or	
ITA 448	Dante's Divina Commedia: Purgatorio and Paradiso	3

24 credits selected from 300- or 400-level courses.

Italian Teacher Education 7-12, B.A. (30-Credit Major)

The required courses and credits are distributed as follows:

Credits (30)

6 credits in required ITA courses:

ITA 303	Advanced Grammar and	3
---------	----------------------	---

Composition

ITA 447	Dante's Divina Commedia: Inferno	3
	Or	
ITA 448	Dante's Divina Commedia: Purgatorio and Paradiso	3

6 credits in required ITA courses:

ITA 3180	Italian Dialectology and Sociolinguistics	3
ITA 3190	Italian Culture	3

18 Selected from 300- or 400-level ITA courses.

Declare a minor in the Department of Middle and High School Education in Foreign Language Education after completing 50% of your required courses in the major.

Students should seek advisement each semester from both the Chair of the Department of Languages and Literatures and the Undergraduate Coordinator of the Department of Middle and High School Education.

Italian Minor

Required Courses (12 Credits)

Minors in the Department consist of 12 credits above the 100 level. A minimum of two courses must be taken at the 300 or 400 level.

Japanese

Japanese Minor

Required Courses (12 Credits)

Minors in the Department consist of 12 credits above the 100 level. A minimum of two courses must be taken at the 300 or 400 level.

Russian

Russian Area Studies Interdisciplinary Minor

Steering Committee: Gary Schwartz (Professor, Languages and Literatures); Elin Waring (Professor, Sociology); Robert Whittaker (Professor, JCT); Ekaterina Belousova (Adj. Asst. Professor, Anthropology); Ralph W. Boone (Adj. Lecturer, English); Ekaterina Salmanova (Adj. Asst. Professor, Languages and Literatures)

The Minor in Russian Area Studies provides students with an interdisciplinary approach to the language, culture, history, politics, and environmental aspects of the Russian Federation (and of its predecessor states, including the Soviet Union). The minor will serve students who are majoring in fields where global and cross-cultural awareness are especially

valuable, such as business, political science, nursing, health services, and social work; in such humanities-based fields as music, art, and literature; and in related multimedia fields. Russian language is not a requirement for the minor.

Degree Requirements

The requirements for the minor consist of four courses (12 credits), at least two of which must be at the 300 level or higher. All students must take the introductory three-credit course POL 220. The remaining 9 credits may be taken from courses on Russia in any department. Russian-language courses on the 200- and 300-level may be included, but are not required.

Introduction to Russian Area Studies (3 credits):

POL 220/POL 220/RUS 220	Russia Today	3
-------------------------	--------------	---

Electives (9 credits):

Electives may be chosen from among courses on the history and culture of Russia, in English or in Russian. Two of the three electives must be at the 300 level or higher. Examples of courses that meet the requirements for this minor include:

RUS 201	Intermediate Russian I	3
RUS 202	Intermediate Russian II	3
RUS 281	Intermediate Russian Tutorial	3
RUS 301	Advanced Russian I	3
RUS 302	Advanced Russian II	3
RUS 381	Tutorial in Russian	3
HIE 336	Early Russian History	3
HIE 337	Modern Russian History	3
RUS 333	The Russian Short Story	3
RUS 336	Russian Drama to Chekhov	3
RUS 338	Classical Russian Poetry	3
RUS 343	Survey of Russian Drama (In English)	3
RUS 346	Dostoevsky (In English)	3
RUS 347	Tolstoy (In English)	3
RUS 360	Russian Authors (In English)	3
SLA 362	Topics and Themes in Slavic Literature (In English)	3
SLA 365	Aspects of Slavic Culture and Civilization (In English)	3

Spanish

The Department of Languages and Literatures offers a Bachelor of Arts in Spanish (SPA-BA) and Bachelor of Arts Spanish Teacher Education 7-12 (SPANT-BA).

Spanish, B.A. (36-Credit Major)

The required courses and credits are distributed as follows:

Credits (36)

12 credits in required SPA courses:

SPA 300	Introduction to Literary Studies	3
SPA 306	Advanced Spanish Composition	3
SPA 309	Advanced Spanish Grammar	3
SPA 331	Cervantes's Don Quixote	3

3 credits in one course in Latin American literature:

SPA 320/LAC 320/SPA 320	Spanish American Literature of the 19th Century	3
SPA 332/LAC 328/SPA 332	Spanish-American Fiction of the Twentieth Century	3
SPA 333/LAC 333/SPA 333	Spanish American Literature of the Conquest	3
SPA 343/LAC 344/SPA 343	Twentieth-Century Latin American Poetry	3

3 credits in one course in Spanish literature:

SPA 301	Spanish Literature from the Middle Ages to 1700	3
SPA 321	Neoclassicism and Romanticism in Spain	3
SPA 322	Realism in the Spanish Narrative	3
SPA 323	Spanish Novel and Lyric Poetry of the Golden Age	3
SPA 330	Twentieth-Century Spanish Literature	3
SPA 340	Spanish Literature of the Middle Ages	3
SPA 341	Spanish "Comedia" of the Golden Age	3
SPA 342	Spanish Literature after the Civil War	3

18 credits selected from 300- or 400-level SPA courses.

LPR/LAC 301: Puerto Rican Literature may be substituted for one of these courses.

Students intending to do graduate work in Spanish should take at least 18 credits in literature.

Spanish Teacher Education 7-12, B.A. (36-Credit Major)

The required courses and credits are distributed as follows:

Credits (36)

12 credits in required SPA courses:

SPA 300	Introduction to Literary Studies	3
SPA 306	Advanced Spanish Composition	3
SPA 309	Advanced Spanish Grammar	3
SPA 331	Cervantes's Don Quixote	3

6 credits in required SPA courses:

SPA 3180	Spanish Dialectology and Sociolinguistics	3
----------	---	---

SPA 3190	Hispanic Culture	3
3 credits in one course in Latin American literature:		
SPA 320/LAC	Spanish American Literature of the 19th Century	3
SPA 332/LAC	Spanish-American Fiction of the Twentieth Century	3
SPA 333/LAC	Spanish American Literature of the Conquest	3
SPA 343/LAC	Twentieth-Century Latin American Poetry	3

3 credits in one course in Spanish literature:		
SPA 301	Spanish Literature from the Middle Ages to 1700	3
SPA 321	Neoclassicism and Romanticism in Spain	3
SPA 322	Realism in the Spanish Narrative	3
SPA 323	Spanish Novel and Lyric Poetry of the Golden Age	3
SPA 330	Twentieth-Century Spanish Literature	3
SPA 340	Spanish Literature of the Middle Ages	3
SPA 341	Spanish "Comedia" of the Golden Age	3
SPA 342	Spanish Literature after the Civil War	3

12 Selected from 300- or 400-level SPA courses.

PRS 302 or PRS 303: May be substituted for one of these courses.

Students intending to do graduate work in Spanish should take at least 18 credits in literature.

Declare a minor in the Department of Middle and High School Education in Foreign Language Education after completing 50% of your required courses in the major.

Students should seek advisement each semester from both the Chair of the Department of Languages and Literatures and the Undergraduate Coordinator of the Department of Middle and High School Education.

Spanish Minor

Required Courses (12 Credits)

Minors in the Department consist of 12 credits above the 100 level. A minimum of two courses must be taken at the 300 or 400 level.

Spanish Minor for the Health Professions

Required Courses (12 Credits)

For non-native speakers:

SPA 201	Intermediate Spanish Grammar	3
---------	------------------------------	---

SPA 202	Intermediate Spanish Reading	3
SPA 309	Advanced Spanish Grammar	3
SPA 3120	Spanish for the Health Professions	3

For heritage learners:

SPA 203	Elements of Contemporary Spanish I	3
SPA 204	Elements of Contemporary Spanish II	3
SPA 307	Translation	3
SPA 3120	Spanish for the Health Professions	3

Latin American and Latino Studies

Department Chair: Teresita Levy (Carman Hall, Room 286)

Department Faculty: Distinguished Professor: Laird Bergad; Professors: Forrest Colburn, Alyshia Gálvez, Milagros Ricourt; Associate Professors: David Badillo, Teresita Levy; Assistant Professors: Mila Burns, Sarah Ohmer; Lecturer: Xavier Totti

The interdisciplinary Department of Latin American and Latino Studies (LALS) offers Bachelor of Arts degrees in Latin American and Caribbean Studies (LAC) and Latino Studies (LTS).

We offer minors in Latin American Studies, Latino Studies, and Mexican/Mexican American Studies.

Latin American and Latino Studies cooperates in preparation for elementary and secondary teaching with Lehman's Department of Early Childhood and Childhood Education and the Department of Middle and High School Education. We also participate in the interdisciplinary Comparative Literature Program and the Women's Studies Option.

Professional Opportunities and Graduate Study: A student receiving a degree in Latin American and Caribbean Studies and Latino and Studies will receive a solid liberal arts foundation suitable for careers in business, industry, government service, teaching (at all levels), as well as preparation for graduate study in numerous disciplines.

Curriculum in Latin American and Caribbean Studies

The interdisciplinary Latin American and Caribbean Studies major is designed to foster a broad-based understanding of this major geographical and cultural area of the world. The major provides the undergraduate student with a comprehensive academic background in the economic, social, political, and cultural problems facing this region today. Its successful completion prepares students to work effectively and knowledgeably in government, international organizations, private industry, journalism, and

communications, or to pursue graduate studies in the humanities, social sciences, or law.

Latin American and Caribbean Studies, B.A. (36 Credit Major)

The courses and credits are distributed as follows:

6 credits in:

LAC 266/HIS	Introduction to Latin America	3
266/LAC 266	and the Caribbean I	
LAC 267/HIS	Introduction to Latin America	3
267/LAC 267	and the Caribbean II	

9 credits—one course in each of the following areas:

Socio-Cultural and Economic Processes

LAC 210/ANT	Women in Latin America	3
210/LAC		
210/WST 210		
LAC 224/LTS	Dominicans in the United	3
224/LAC 224	States	
LAC 231/LTS	Latinos in the United States	3
242/LAC 231		
LAC 235/AAS	Caribbean Societies	3
235/LAC 235		
LAC 238/LAC	Selected Studies in Societies	3
238/ANT 238	and Cultures (Latin America)	
LAC 289/GEH	Latin America	3
289/LAC 289		
LAC 307/AAS	Black Brazil	3
307/LAC 307		
LAC 312/LAC	Latino Migrations	3
312/LAC 232		
LAC 313	Religion in Hispaniola: from	3
	Catholicism to African	
	Religions	
LAC 314	Religions in Latin America, the	3
	Caribbean, and Latino U.S.	
LAC 317/ANT	Early Civilization of South	3
317/LAC 317	America and the Caribbean	
LAC 318/ANT	Early Civilizations of Mexico	3
318/LAC 318	and Central America	
LAC 323/ECO	Economic Development in	3
323/LAC 323	Latin America	
LAC 347/ANT	Race and Ethnicity in Latin	3
347/LAC 347	America and the Caribbean	
LAC 400/AAS	Seminar: Slavery in the New	3
400/LAC 400	World	

Literature and the Arts

LAC 143/ARH	Introduction to the History of	3
143/LAC 143	Latin American Art	
LAC 214/AAS	Literature of the Caribbean and	3
214/LAC	the Caribbean Diaspora	
214/LTS 214		

LAC 216	Latin American Cinema	3
LAC 233/LAC	Latin American Literature in	3
233/SPA 233	Translation	
LAC 241/AAS	Literature of the English &	3
241/LAC 241	Francophone Caribbean	
LAC 247/LAC	Brazilian Literature from the	3
247/POR 247	Colonial Period to the	
	Twentieth Century	
LAC 250/LAC	Contemporary Problems in the	3
250/SPA 250	Hispanic World	
LAC 265/LAC	Contemporary Literature of	3
265/SPA 265	Spain and Spanish America	
LAC 300/AAS	Literatures of the African	3
300/LAC 300	Diaspora in Latin America	
LAC 301	Puerto Rican Literature	3
LAC 316/LAC	Visual Culture of Latin	3
316/LTS 316	America, the Caribbean and the	
	Diaspora	
LAC 319	Latinos in Film	3
LAC 320/LAC	Spanish American Literature of	3
320/SPA 320	the 19th Century	
LAC 329/LAC	Literature of the Dominican	3
329/SPA 329	Republic	
LAC 333/LAC	Spanish American Literature of	3
333/SPA 333	the Conquest	
LAC 334	The Musical Experience of	3
	Caribbean Cultures and	
	Societies	
LAC 339/ENG	Latino Literature	3
339/LAC		
339/SPA 339		
LAC 341	Puerto Rican Music	3
LAC 342	Latin American Popular Music	3
LAC 343/ARH	Pre-Columbian Art	3
343/LAC 343		
LAC 344/LAC	Twentieth-Century Latin	3
344/SPA 343	American Poetry	
LAC 346	Introduction to Mexican and	3
	Chicano/a Literatures	
LAC 352/LAC	Special Topics in Hispanic	3
352/SPA 352	Literature	
LAC 359/LAC	Spanish American Civilization	3
359/SPA 359		

History and Politics

LAC 225	History of the Dominican	3
	Republic	
LAC 226	Contemporary Dominican	3
	Politics and Society	
LAC 268	History of Mexico	3
LAC 304	The Social History of	3
	Hispaniola	
LAC 306	The Haitian-Dominican Border:	3

LAC 315	Nation, State and Race Comparative History of the Hispanic Caribbean	3
LAC 321	Latino New York	3
LAC 324/HIW 324/LAC 324	History of Cuba	3
LAC 330/HIW 330/LAC 330	Latin America in the Nineteenth Century	3
LAC 331/HIW 331/LAC 331	Modern Latin America	3
LAC 332/LAC 332/POL 332	Political Systems in Latin America	3
LAC 335/AAS 335/LAC 335	The Afro-Caribbean in World Politics	3
LAC 336/LAC 336/POL 336	Political Systems of Central America and the Caribbean	3
LAC 337/HIW 337/LAC 337	Latin America and the United States from 1823 to the Present	3
LAC 338	Colonial Latin America	3
LAC 340/HIW 340/LAC 340	Slavery in Latin America and the Caribbean	3
LAC 345	History of South America	3
LAC 349	Latino Political Economy	3
LAC 351	The Mexican Revolution	3
LAC 364	Through Foreign Eyes: Outsiders look at Mexico	3

21 credits in LAC electives:

At least 12 credits must be at the 300- or 400- level.

Language requirement:

In addition to the 36 credit major students must show competency in Spanish. Students must complete, or test out of, the intermediate Spanish sequence of 6 credits:

- For non-native speakers: SPA 201: Intermediate Spanish Grammar and SPA 202: Intermediate Spanish Reading.
- For heritage learners: SPA 203: Elements of Contemporary Spanish I and SPA 204: Elements of Contemporary Spanish II.

Latin American Studies Minor

Students may minor in Latin American Studies by accumulating 12 credits:

LAC 266/HIS 266/LAC 266	Introduction to Latin America and the Caribbean I	3
LAC 267/HIS 267/LAC 267	Introduction to Latin America and the Caribbean II	3
LAC	LAC courses at the 300 level or above	6

Mexican and Mexican-American Studies Minor

This minor is designed to introduce students to a variety of topics and issues in the history, politics, arts, and migration of Mexicans and to give them the opportunity to study Mexico and its Diaspora in the United States. The program is offered as a minor field that complements a wide array of majors. It is particularly valuable for students who wish to combine an interest in Mexico with majors such as History, Education, Sociology, Anthropology, or Political Science.

DEGREE REQUIREMENTS

Students must complete four courses (12 credits), two of which are the required courses:

LAC 267/HIS	Introduction to Latin America	3
267/LAC 267	and the Caribbean II	
LAC 268	History of Mexico	3

Courses in Mexican and Mexican American Studies

The remaining two may be chosen from the list of courses in Mexican and Mexican American Studies and the list of relevant courses in the Humanities and Social Sciences.

LAC 268	History of Mexico	3
LAC 364	Through Foreign Eyes: Outsiders look at Mexico	3
SPA 346	Introduction to Mexican and Chicano/a Literatures	3
LAC 352/LAC 352/SPA 352	Special Topics in Hispanic Literature	3
LAC 363	Mexican Migration to the U.S.: History, Culture, and Civil Rights	3

Relevant Courses in the Humanities and Social Sciences

LAC 267/HIS 267/LAC 267	Introduction to Latin America and the Caribbean II	3
LAC 312/LAC 312/LAC 232	Latino Migrations	3
LAC 319	Latinos in Film	3
LAC 347/ANT 347/LAC 347	Race and Ethnicity in Latin America and the Caribbean	3
LAC 318/ANT 318/LAC 318	Early Civilizations of Mexico and Central America	3
LAC 332/LAC 332/POL 332	Political Systems in Latin America	3

Curriculum in Latino Studies

The Bachelor of Arts curriculum in Latino Studies reflects the history, development, and current state of Latino Studies as a major interdisciplinary field with focus on Latinos in the U.S. (including Puerto Rico) and their cultural backgrounds throughout Latin America and the Caribbean. Courses are conducted in English.

Latino Studies, B.A. (36 Credit Major)

Latino Studies Minor

Completion of the Minor in Latino Studies requires 12 credits in courses distributed as follows:

6 credits in required courses:

LTS 242/LAC	Latinos in the United States	3
231/LTS 242		
LTS 269	History of U.S. Latinos	3

6 credits—in Latino Studies (LTS) courses at the 300-level or above

Teacher Certification

Students interested in obtaining New York State teacher certification should consult the Office of the Dean of Education (Carman Hall, Room B-33, 718-960-4972).

Women's Studies Option

See the information (p. 198) on this program contained later in this Bulletin.

The Lehman Scholars Program

Director of Studies: Professor Olivia Loksing Moy (Library, Room 315)

The Lehman Scholars Program (LSP) is designed for capable and highly motivated students who have the desire and ability to pursue a somewhat more independent liberal arts course of study as they complete their major and other general college requirements. The program offers the advantages of a small, intimate college that includes special seminars and academic counseling.

The Lehman Scholars Program offers the following special features:

-The LSP Seminars

Students take 4 honors seminars during their academic career. Seminars are limited to 18 or fewer students and are unique offerings from faculty across the departments. These seminars are not lectures and do not exist in the regular Undergraduate Bulletin. They are only offered inside of LSP and completely new seminars are offered each semester. These discussion-based courses provide the core of the LSP experience as all students participate actively in them.

*These seminars additionally can be used to meet the Pathways flexible core requirements.

By taking these rewarding seminars, students are also exempt from General Education upper-division Integration Requirements (CUNY College Option, i.e. LEH 300 courses).

Students will of course meet course prerequisites and requirements for their major.

Mentoring

-Each student entering the program will receive personalized advising and mentoring from one or more of the LSP faculty staff members. The mentor will advise the student in the areas of program planning and academic and career goals.

Other Special Programming Unique to LSP

-Students will take Honors versions of the required English Composition Courses, namely ENG113 (freshman year) and ENG123 Sophomore year. These can not be replaced by College Now courses or similar. Students who enter LSP after freshman year and who have taken ENG111 do not need to take 113 but must take ENG123 (honors), not ENG121.

-Two years of the same foreign language or its equivalent; students may opt to take one year and 2 additional LSP seminars.* Further exceptions may apply and can be discussed at the interview.

-Completion of a capstone project, begun in the second semester of junior year and submitted by November 1 or April 1 of the student's last semester (or semester of graduation).

Application Procedure: Students who have earned 45 or fewer college credits may apply for either September, June, or January admission. Send an email to Wanda Cortez wanda.cortez@lehman.cuny.edu and copy Honors Director Moy olivia.moy@lehman.cuny.edu to arrange for an interview with the LSP faculty. The application* and instructor recommendation forms are included below. Please include your EMPLID on all communications.

*The application consists of the application form (attached) and a 2-5 page writing sample from a course you completed within the past 12 months as well as a faculty recommendation. Students will be notified about their acceptance in time for the following semester's registration. The application form is available in the LSP Office, Library, Room 315 or [here](#).

The Lehman Scholars Program Prior to Fall 2020

The Lehman Scholars Program Prior to Fall 2019

Linguistics (Interdisciplinary)

Interim Director: Francisco Montaña (Carman Hall, Room 276)

Advisory Board: Bertrade Banoum-Ngo-Ngijol, Africana Studies; Rosalind Carey, Philosophy; Michael Cotto, English; Cecelia Cutler, Middle and High School Education; Evelyn Duran-Urrea, Languages and Literatures; Mira Goral, Speech-Language-Hearing Sciences; Thomas Ihde, Languages and Literatures; John Locke, Speech-Language-Hearing Sciences;

Óscar Martín, Languages and Literatures; Janis Massa, English; Francisco Montano, Languages and Literatures; Joye Smith Munson, Middle and High School Education;

Participating Departments: Africana Studies, Anthropology, English, Languages and Literatures, Mathematics and Computer Science, Philosophy, Sociology, and Speech-Language-Hearing Sciences

The interdisciplinary Program in Linguistics offers courses to prepare students for (1) graduate study in theoretical and applied linguistics and (2) careers in the teaching of linguistics, and applied linguistics, including the teaching of English as a second language.

Linguistics, B.A. (30 Credit Major)

The Linguistics major consists of 30 credits, distributed as follows:

18 Credits in:

LNG 246/LNG 246/SPV 246	Introduction to Linguistics	3
LNG 245/SPV 245	Articulatory Phonetics	3
LNG 321	Introduction to Syntax	3
LNG 323	Introduction To Phonology	3
LNG 324	Semantics	3
LNG 335	Sociolinguistics: The Sociology of Language	3

12 additional credits in LNG courses:

At least 6 credits must be at 300- or 400-level

It is recommended that students complete a minor in a foreign language. Students in this major must arrange their programs in consultation with the Program Director.

Linguistics Minor

Students in this minor must arrange their programs in consultation with the Program Director. A minor in linguistics must include four courses at the 200-level or higher, with at most two courses being at the 200-level.

Honors in Linguistics

Honors in Linguistics may be conferred on students who have satisfied the College requirement for departmental honors at the time of graduation and have completed the honors tutorial LNG 481 with a grade of 3.5 or better.

List of Courses Relevant to the Linguistics Major

LNG 150	The Phenomena of Language	3
LNG 246/LNG 246/SPV 246	Introduction to Linguistics	3
LNG 228/ANT 228/LNG 228	Language and Culture	3

LNG 240	Language and Communication	3
LNG 245/SPV 245	Articulatory Phonetics	3
LNG 247/LNG 247/SPV 247	Anatomy and Physiology of the Speech Mechanism	3
LNG 248/LNG 248	Acoustic Phonetics	3
LNG 266/LNG 266/PHI 230	Intermediate Logic	3
LNG 326/ANT 326/LNG 326	Anthropological Linguistics	3
LNG 312/LNG 312/SPV 312	Bilingualism	3
LNG 318/ENG 304/LNG 318	Struct Modern English	3
LNG 321	Introduction to Syntax	3
LNG 323	Introduction To Phonology	3
LNG 324	Semantics	3
LNG 334	Historical Linguistics	3
LNG 335	Sociolinguistics: The Sociology of Language	3
LNG 341	The Evolution of Language	3
LNG 342/LNG 342/PSY 342	The Psychology of Literacy Development	3
LNG 444	Readings in Linguistics	3
LNG 481	Honors Tutorial	3

LNG 444, LNG 481: Maximum of 6 credits allowed.

Macaulay Honors College

Program Director: Professor Gary Schwartz (Leonard Lief Library, Room 315)

The Macaulay Honors College at Lehman College admitted its first class in September 2002. Member of the Honors College are designated "Macaulay Scholars." They receive full tuition, a laptop computer, and an opportunities fund for academic enrichment experiences, such as study abroad. A "Cultural Passport" provides entree to concerts, the theater, museums, and other cultural institutions in New York City. Macaulay Central at 35 West 67th Street, through its Career Development Office and rich program of events exposes students to and puts them in contact with accomplished individuals active in many facets of city life, the arts, government, business, and science. Macaulay offers abundant opportunities for academic enhancement and intellectual growth, supplemented by study abroad, internships, preparation for graduate school, and global engagement.

All Macaulay Scholars are personally guided through their four years by a Macaulay Academic Advisor on their home campus who is dedicated to maximizing their college careers. This is the unique hallmark of a Macaulay education.

Criteria for selection include the student's high school academic record, SAT/ACT scores, an essay, two letters of recommendation, and an interview.

Students intending to apply for Macaulay must either apply directly from high school or as transfer students through the Macaulay Bridge Program. Upon successful completion of the four required New York City Seminars, Macaulay Bridge Program students become Macaulay Scholars. Macaulay does not accept transfers from any other institution. Students wishing to apply should consult the Macaulay homepage through the CUNY Portal at www.cuny.edu and select "Apply Online," as well as the Lehman homepage at www.lehman.edu/lehman/honorscollege.

MACAULAY AT LEHMAN REQUIREMENTS:

1. All Macaulay Scholars at Lehman College fulfill the same requirements in Pathways (General Education) and in their majors as stipulated in the College Bulletin for all Lehman College students. Upon graduation, Macaulay Scholars are issued a joint diploma from Macaulay Honors College and Lehman College.
2. The seminar based core curriculum of Macaulay Honors College is the four sequential New York City seminars focusing on aspects of life, culture, history, and governance of NYC.
3. Three additional honors seminars chosen from those offered by the Lehman Scholars Program or Macaulay Central or another MHC CUNY campus.
4. Two years of the same foreign language or the equivalent. Students beginning a foreign language take 4 semesters (elementary + intermediate); students continuing in a language may place into one of the four semesters or place out of further required foreign language study based on AP testing or other criteria.

Alternatively, students may take one year of elementary language study and two Lehman Scholars Seminars substituting them for the intermediate year of foreign language study.

5. Completion of a capstone project, begun in the second semester of junior year and submitted by November 1 or April 1 of the student's last semester (or semester of graduation).
6. Students are required to complete 30 certified hours of community service.

7. Students are required to complete an internship or study abroad program.

MACAULAY BRIDGE PROGRAM AT LEHMAN REQUIREMENTS:

1. All Macaulay Scholars at Lehman College fulfill the same requirements in Pathways (General Education) and in their majors as stipulated in the College Bulletin for all Lehman College students. Upon graduation, Macaulay Scholars are issued a joint diploma from Macaulay Honors College and Lehman College.
2. The seminar based core curriculum of Macaulay Honors College is the four sequential New York City seminars focusing on aspects of life, culture, history, and governance of NYC.
3. Two courses or seminars chosen from courses or seminars offered by:
 - A. Honors Programs or equivalent curriculum at college campus of origin.
 - B. The Lehman Scholars Program
 - C. Macaulay Central
 - D. Another Macaulay Campus
4. Macaulay Bridge Students are exempt from the foreign language requirement.
5. Completion of a capstone project, begun in the second semester of junior year and submitted by November 1 or April 1 of the student's last semester (or semester of graduation).
6. Students are required to complete 30 certified hours of community service.
7. Students are required to complete an internship or study abroad program.

Mathematics

Chair: Joseph Fera (Gillet Hall, Room 211).

Department Faculty: Professors: Jason Behrstock, Michael Handel, Leon Karp, Nikola Lakic, Melvyn B. Nathanson, Christina Sormani, Zoltan Szabo, Mahmoud Zeinalian; Associate Professors: Joseph Fera, Robert Schneiderman; Assistant Professors: Renato Ghini Bettiol, Chen-Yun Lin, Megan Owen; Doctoral Lecturers: Celia Cruz, Brian Wynne; Lecturers: Tanja Haxhoviq, Kevin Johnson; Math and Computer Science Learning Center Coordinator: Loric Madramootoo; IT Academic Technology Coordinator: Marvin Florin; Academic Advisor: Rafael Gonzalez

The Department of Mathematics offers undergraduate students a program leading to the Bachelor of Arts degree in Mathematics. Students can also choose to minor in Mathematics. The Mathematics program prepares students both for graduate study and for careers in industry, education, government, and the non-profit sector.

Mathematics, B.A. (43-47 Credit Major)

There are twelve required courses:

31 Credits

MAT 175	Calculus I	4
MAT 176	Calculus II	4
MAT 226	Vector Calculus	4
MAT 313	Elements of Linear Algebra	4
MAT 314	Algebra and Number Systems I	4
MAT 320	Analysis I	4
CMP 167	Programming Methods I	3

MAT 330	Probability and Statistics	4
	Or	
MAT 323	Ordinary Differential Equations	4
	Or	
MAT 424	Partial Differential Equations and Applications	4

12-16 credits in four additional courses chosen from among 200-level or higher MAT courses, not counting:

MAT 231	Statistics for Biologists	4
MAT 300	Mathematical Models in the Social Sciences	3
MAT 301	Applied Statistics and Computer Analysis for Social Scientists	3
MAT 348	Mathematical Methods for Management	4
MAT 328	Techniques in Data Science	4

May be among the chosen:

CMP 332	Numerical Methods	3
---------	-------------------	---

Note: Mathematics majors pursuing NYS teaching certification should consult with their education program adviser before choosing the required elective courses.

BA to MA Dual Credit Opportunity for Mathematics Majors

Undergraduate students majoring in Mathematics with 90 or more credits and a minimum of a (3.0) cumulative index and (3.0) index in the major may be permitted to enroll in up to 12 credits of graduate coursework for the College's MA in Pure Mathematics. The following graduate courses may be taken in place of related undergraduate courses.

MAT 616 (For MAT 315)

MAT 711 (For MAT 456)

MAT 733 (For MAT 432)

MAT 734 (For MAT 434)

MAT 741 (For MAT 433)

MAT 751 (For MAT 422)

MAT 753 (For MAT 423)

MAT 754 (For MAT 456)

MAT 759 (For MAT 456)

MAT 771 (For MAT 442)

MAT 775 (For MAT 441)

MAT 789 (For MAT 456)

The student must receive permission from the department prior to registration.

Economics and Mathematics, B.A. (57-58 Credit Major)

Program Description: 57-58 Credits Major in Economics and Mathematics

Course Description:

Foundation Courses (23 credits)

ECO 166	Introduction to Macroeconomics	3
ECO 167	Introduction to Microeconomics	3
ECO 302	Economic Statistics	3
ECO 402	Econometrics	4
MAT 175	Calculus I	4
MAT 176	Calculus II	4

MAT 155 (1 credit) is a co-requisite of MAT 175 and MAT 156 (1 credit) is a co-requisite of MAT 176.

Requirements (25 credits)

ECO 300	Intermediate Macroeconomics	3
ECO 301	Intermediate Microeconomics	3
ECO 401	Introduction to Mathematical Economics	3
MAT 226	Vector Calculus	4
MAT 301	Applied Statistics and Computer Analysis for Social Scientists	3
MAT 313	Elements of Linear Algebra	4
MAT 330	Probability and Statistics	4

Electives (9-10 credits)

One Mathematics course to be chosen from the list below:

MAT 323	Ordinary Differential Equations	4
MAT 327	Statistical Inference	4
MAT 347	Game Theory and Linear Programming	3
MAT 349	Operations Research	4
MAT 364	Financial Mathematics	4
MAT 424	Partial Differential Equations	4

	and Applications	
MAT 430	Advanced Probability and Applications	4
MAT 464	Advanced Financial Mathematics and Applications	4
Two Economic courses to be chosen from the list below:		
ECO 305/BBA 305/ECO 305	Consumer Economics	3
ECO 306	Money and Banking	3
ECO 311/ECO 311/BBA 207	Public Economics	3
ECO 322	Economic History of Developing Countries	3
ECO 324/ECO 324/BBA 324	International Economics	3
ECO 326/BBA 326/ECO 326	Labor Economics	3
ECO 331	Industrial Organization and Regulation	3
ECO 338	Law and Economics	3
ECO 344	Economic Evaluation of Health Programs	3
ECO 345	Health Economics	3
ECO 431/ECO 431/BBA 431	Managerial Economics	3

Departmental Minors

Actuarial Mathematics Minor (12 credits)

The Actuarial Mathematics minor is designed to provide broad training in the basic mathematics needed to pursue a career in actuarial science. Special attention is given to probability, financial mathematics, and mathematical statistics. The courses are organized to assist the student to prepare for both the Actuarial P and Actuarial FM Exams; the program also includes a course recognized by the Society of Actuaries for Validation by Educational Experience (VEE) credit.

General requirement:

The requirements for the minor are the following 3 courses 12 credits

MAT 327	Statistical Inference	4
MAT 430	Advanced Probability and Applications	4
MAT 464	Advanced Financial Mathematics and Applications	4

Mathematics Minor (12 credits)

General requirement:

12 credits at the 200 level or above, with at least 6 at the 300 level or above.

All grades must be C- or better.

Students not majoring in Computer Science must include:

MAT 226	Vector Calculus	4
MAT 313	Elements of Linear Algebra	4

Students majoring in Computer Science, who elect to have a minor in Mathematics, must include:

MAT 320	Analysis I	4
---------	------------	---

Cannot include any courses used to satisfy the Computer Science major.

Middle Eastern Studies

Middle Eastern Studies (Interdisciplinary Minor)

Coordinator: Dina Le Gall (Carman Hall, Room 295)

Steering Committee: Charles Cange, Health Sciences; Elhum Haghighat, Political Science; Dina Le Gall, History; Christa Salamandra, Anthropology; Devirm Yavuz, Sociology.

This interdisciplinary program is designed to introduce students to a variety of topics and issues in the history, politics, languages, societies and cultures of the Middle East and to give them the opportunity to study the Middle East using the tools of several different disciplines. The program is offered as a minor field that complements a wide array of majors. It is particularly valuable for students who wish to combine an interest in the Middle East with majors such as History, Anthropology, Sociology, or Political Science in preparation for graduate work in Middle Eastern Studies or for professional careers in education, business, government, foreign service, law, and journalism, among others.

Degree Requirements

Students construct their course of study in consultation with the Minor's Coordinator. They must complete four courses (12 credits), one of which will be the required course MES 245: Introduction to Middle Eastern Studies. The other three may be chosen from any courses in Middle Eastern Studies. Some additional courses, including language tutorials and relevant topics courses, may be counted toward the Minor with the Coordinator's approval. Two of the four courses taken as part of the minor must be at the 300 level or above. Students may take no more than two courses with the same alpha code other than MES. Courses from a student's major department may be taken as part of the Minor, but the credits cannot count toward both.

Middle and High School Education

Chair: Wesley Pitts (Carman Hall, Room B29)

Undergraduate Program Coordinator: Daniel Stuckart

Department Faculty: Professors: Cecelia Cutler, Serigne M. Ngingue, Herminio Martinez; Associate Professors: Orlando Alonso, Gillian Bayne, Amanda Gulla, Immaculee Harushimana, Wesley Pitts, Daniel Stuckart; Assistant Professors: Sherry Deckman, Tiffany Dejaynes, David Fletcher, Roger Peach, Joye Smith-Munson; Lecturer: Celia Cruz, Sunyata Smith; College Lab Technician: Joi Jones.

The Department of Middle and High School Education prepares teacher candidates to meet requirements for New York State initial certification¹ to teach the following academic subjects in middle and high school: english, foreign languages, mathematics, science (biology and general science; chemistry and general science; physics and general science; and earth science and general science), and social studies. It also prepares students to meet requirements to teach the following special subjects: art (K-12).

Advisement: Students should obtain advisement before enrolling in an education sequence. Information about prerequisites, and the requirements for New York State certifications² for teachers of academic or special subjects, may be obtained in the Department office. Students seeking New York City public school licenses will be advised as to the requirements for the appropriate New York State teaching certificate currently accepted as partial City credentialing. Candidates for certification are expected to demonstrate specified knowledge, skills, and performance competencies through class sessions on campus and through a variety of field-based activities in schools and other education agencies. Students interested in dual certification should consult the Department Chair.

¹ *The sequence described in this section meets the requirements for New York State certification. Students seeking a license to teach in New York City public schools may need to meet other requirements and should contact the New York City Public Schools Office of Recruitment for specific information (718-935-2670).*

² *New York State also requires applicants for provisional teacher certification to achieve a satisfactory level of performance on the New York State Test of the Liberal Arts and Sciences (LAST), and on the Assessment of Teaching Skills-Written (ATS-W). Candidates are also required to earn a certificate in child abuse detection and prevention. For updated certification requirements, please contact the school certification adviser (Carman Hall, B-33).*

Undergraduate Secondary Teacher Education Program Minor and Certification Requirements

(Art, English, Foreign Language, Mathematics, Science and Social Studies)

The Middle and High School Education Minor is open to all Lehman students. The minor consists of four courses: ESC 301, ESC 302, ESC 429, and a fourth ESC course chosen in consultation with the education adviser. A student may graduate with the Minor, or may continue beyond with the Certification Sequence leading to New York State grades 7-12 teacher certification¹.

Students aspiring to the Certification Sequence must declare a specific major in art, English, math, science, history, Spanish, French, or Italian together with a minor in Middle and High School Education.

MHSE Minor (12-13 credits)

The Minor presents an opportunity for all Lehman students to engage with the issues, knowledge and skills of teaching and learning in urban middle and high schools, but does not grant a teaching credential.

ESC 301	Psychological Foundations of Middle and High School	3
ESC 302	Social Foundations of Education: A Multicultural Perspective	3
ESC 429	Language and Literacies Acquisition in Secondary Education	3
ESC 463	Special Needs Education: The Identification Instruction & Assessment Special Needs Population Middle & HS	3

Or

A teaching methods course from ESC 410 to ESC 462 (3 or 4 credits) for art¹, English², foreign language³, math⁴, science⁵, and social studies⁶.

Students who wish to earn New York State 7-12 certification¹ must additionally qualify for, and then complete the Certification Sequence.

Middle and High School Education Minor Prior to Fall 2020

Middle and High School Education Minor Prior to Spring 2020

Middle and High School Education Minor Prior to Spring 2019

The Certification Sequence (12-16 credits)

Entrance

In order to continue beyond the Minor and into the Certification Sequence as a teacher candidate, the student must meet the following criteria:

1. Enter the Certification Sequence with a minimum overall GPA of 3.0;
2. Complete half of the major courses; and
3. Submit the Declaration of Academic Plan and Sub-plan (Leading to Teacher Certification) to the education adviser.

Continuation

Teacher candidates must maintain a minimum overall GPA of 3.0.

The Certification Sequence comprises five additional ESC courses in methods, fieldwork and student teaching.

Teaching Methods and/or Special Needs Students

In consultation with the education adviser, candidates who completed ESC 463 as part of the minor will select two method courses in their content areas. If they have not, they will select ESC 463 and their remaining method course:

ESC 463 (3 credits) Special Needs Education

Art methods: ESC 414 (3 credits) and DEC 436 (3 credits)

English methods: ESC 410 (3 credits) and ESC 422 (3 credits)

Foreign language methods: ESC 462 (3 credits) and ESC 424 (3 credits)

Math methods: ESC 448 (3 credits) and ESC 432 (3 credits)

Science methods: ESC 467 (3 credits) and ESC 419 (3 credits)

Social studies methods: ESC 433 (3 credits) and ESC 434 (3 credits)

Student Teaching Experience and Seminar

Before entering the student teaching experience, candidates should submit passing scores from the EAS (Educating All Students) and CST (Content Specialty Test) certification tests.

ESC 470	Student Teaching in the Middle and High School Grades	3
ESC 471	Student Teaching Seminar	3

Exit

In addition to completing the above ESC course requirements, the candidate must complete the following additional requirements to exit the program and receive Lehman College's recommendation for New York State Teacher Certification:

1. All candidates seeking New York State Teacher Certification must have a minimum of 6 credits (two college-level courses) in each of the following four Liberal Arts and Science subject areas: Mathematical Processes, Scientific Processes, Concepts in Historical and Social Sciences, and English/Literature.
2. Complete two semesters of college-level study of a language other than English.
3. Complete three State-mandated workshops on (a) Child Abuse Identification and Reporting; (b) School Violence

Intervention and Prevention; and (c) Dignity for All Students Act (DASA).

4. Foreign language candidates must complete courses 3180 and 3190 in their language majors, and pass the ACTFL OPI (oral proficiency interview).
5. Social studies teacher candidates must additionally complete 3-credit courses (for a total of 24 credits) with grades of C or better in each of the following social science disciplines: Anthropology, Economics, European or World History, Geography, Political Science, Psychology, Sociology, and U.S. History.

*The Health program has been discontinued and will not accept future applicants.

Individual Applicants for NYS Certification

Students not seeking an institutional recommendation but who intend to apply independently using the individual evaluation pathway for certification should visit the New York State Education Department website at www.highered.nysed.gov/tcert.

Extension of Individual Evaluation Pathway to Certification

The date of the individual evaluation option was extended from February 1, 2009 to February 1, 2012.

Music, Multimedia, Theatre, and Dance

Chair: Diana M. Battipaglia (Music Building, Room 309)

Music Faculty: Distinguished Professor Emeritus: John P. Corigliano; Professors: Diana M. Battipaglia, Marta Ghezzi; Associate Professors: Michael Bacon, David Claman, Molly Morkoski, Penny Prince; Assistant Professors: David Font-Navarrete; Substitute Assistant Professor: Jason Noble; Lecturer: Allan Molnar; Chief College Lab Technicians: Darina Qafleshi, Karl Watson; College Lab Technicians: Steven Buonanotte, Alejandro Castro, Anthony Paul-Cavaretta.

Multimedia, Theatre, and Dance Faculty: Associate Professors: Claudia Case, Rick DesRochers, Amy Larimer, Susan Watson-Turner; Assistant Professors: Wendell Cooper, Monica Duncan, Jennifer McCabe

Music, B.S. (64 Credit Major)

The Department of Music offers a 64-credit major in Music leading to the B.S. degree. Entrance into this program is by examination.

The required courses and credits are distributed as follows:

Credits (64)

Foundation (3):

MSH 200	Introduction to Music History and Culture	3
---------	---	---

It is assumed that students entering the major are able to read music. Students who wish to major in music but cannot already read music must complete MST 100.

Music Theory (18):

MST 236	Theory I	3
MST 237	Theory II	3
MST 238	Theory III	3
MST 239	Theory IV	3
MST 315	Orchestration I	3
MST 317	Form and Analysis I	3

Musicianship (4):

MST 266	Musicianship I	1
MST 267	Musicianship II	1
MST 268	Musicianship III	1
MST 269	Musicianship IV	1

Music History (12) selected from the following:

MSH 331	Music of the Middle Ages and Renaissance	3
MSH 332	Music of the Baroque and Classical Eras	3
MSH 333	Music of the Romantic and Early Modernist Eras	3
MSH 334	Music Since 1945	3
MSH 350	Topics in Ethnomusicology	3
		(maximum 6)

MSH 350: A variable topics course that may be repeated with a different topic.

Performance Instruction (6):

Six credits of private or group instruction on an instrument or voice to be selected from the following courses.

MSP 166	Strings I	1 (can be repeated to a maximum of 4)
MSP 167	Strings II	1 (can be repeated to a maximum of 4)
MSP 168	Woodwinds I	1 (can be repeated to a maximum of 4)
MSP 169	Woodwinds II	1 (can be

MSP 170	Brass I	1 (can be repeated to a maximum of 4)
MSP 171	Brass II	1 (can be repeated to a maximum of 4)
MSP 172	Percussion	1 (can be repeated to a maximum of 4)
MSP 185	Guitar 1	1 (can be repeated to a maximum of 4)
MSP 186	Guitar 2	1 (can be repeated to a maximum of 4)
MSP 190	Group Piano 1	1 (maximum 4)
MSP 191	Group Piano 2	1 (maximum 4)
MSP 192	Group Piano 3	1 (maximum 4).
MSP 210	Instruction in Principal Instrument or Voice Private Instruction	1 (maximum 8)
MSP 225	Singing for the Stage	1
MSP 226	Voice and Diction 1	1
MSP 227	Voice and Diction 2	1
Ensemble (6):		
MSP 100	Chorus	1 (can be repeated to a maximum 8)
MSP 200	Guitar Ensemble	1
MSP 201	The College Choir	1

		(maximum 8).			6)
MSP 202	The Chamber Choir	1	MSH 335	Defining Moments in Film Scoring History	3
		(maximum 8).	MSH 369	History of Jazz	3
MSP 203	Concert Band	1	MSH 280	Entrepreneurship in the Music Industry	3
		(maximum 8).	MSH 370	American Popular Music	3
MSP 204	Orchestra	1	MST 221	Fundamentals of Film Music	3
		(maximum 8).	MST 245	Introduction to Music Therapy	3
MSP 205	Ensemble for Voices and/or Instruments	1	MST 246	Music and the Brain	3
		(maximum 8).	MST 316	Orchestration II	3
MSP 207	Jazz Band	1 (can be repeated to a maximum 8)	MST 318	Form and Analysis II	3
			MST 319	Composition I	3
			MST 320	Composition II	3
MSP 208	Percussion Ensemble	1	MST 321	Creating Music with Computers	3
		(maximum 8).	MST 322	Recording Techniques and Studio Production	3
MSP 209	Latin Band	1	MST 323	Scoring for Media	3 (can be repeated to a maximum 6).
		(maximum 8).	MST 370	Music Internship	3 (may be repeated once with Departmental approval).
Students enrolled in MSP 210 (voice) must take a minimum of 2 semesters from one of the following: MSP 100, MSP 201, or MSP 202.			MST 371	Practicum in Music Therapy	1 (may be repeated up to 3).
Students enrolled in MSP 210 (violin, viola, cello, acoustic bass) must take a minimum of 2 semesters of MSP 204.			MSP 230	Piano for Music Teachers	2
Students enrolled for MSP 210 (woodwinds or brass) must take a minimum of 2 semesters from one of the following: MSP 203, or MSP 204.			MSP 445	Conducting	3
Students enrolled for MSP 210 (piano) must take a minimum of 2 semesters from one of the following: MSP 100, MSP 201, MSP 202, MSP 205, MSP 207, or MSP 209.			MSP 446	Conducting	3
Students enrolled for MSP 210 (percussion) must take a minimum of 2 semesters from one of the following: MSP 203, MSP 204, MSP 207, MSP 208, or MSP 209.			A maximum of 3 credits of group instruction on an instrument or voice may be applied to Elective credit. Eligible courses: MSP 166, MSP 167, MSP 168, MSP 169, MSP 170, MSP 171, MSP 172, MSP 185, MSP 186, MSP 190, MSP 191, MSP 192, MSP 225, MSP 226, and MSP 227.		
Students enrolled for MSP 210 (guitar) must take a minimum of 2 semesters from one of the following: MSP 100, MSP 200, MSP 201, MSP 202, MSP 205, MSP 207, or MSP 209.			A maximum of 3 credits of additional ensemble may be applied to Elective credit. Eligible courses: MSP 100, MSP 200, MSP 201, MSP 202, MSP 203, MSP 204, MSP 205, MSP 207, MSP 208, MSP 209.		
*Students electing to enroll in 9 credits of ensemble can apply 3 of these credits to elective credit.			Other electives by permission of the Department.		
Electives to be taken from the following courses (12):			Senior Project (3):		
MSH 350	Topics in Ethnomusicology	3 (maximum	MST 496	Senior Project	3
			Note: Students studying with a private teacher approved by the Department of Music may petition the Department Chair to receive 1 to 6 credits.		

Placement in Courses

A basic knowledge of music theory is required of all students who wish to major in Music. Students will demonstrate their ability to enter MST 236 (Theory I) and MST 266 (Musicianship I) by taking a placement examination. Successful completion of MST 100 will be accepted in lieu of the placement examination.

Piano Requirement

In addition to the major instrument, students must pass a proficiency examination in piano. Examples of the required level of proficiency are available in the Music Office (Music Building, Room 319). Students are expected to complete this requirement before their fifth semester.

Departmental Ensembles

All students, faculty, staff, and members of the community audition for the principal ensembles of the College. Music majors are required to participate in at least one ensemble per semester.

MSH 114, MSH 115 and MSH 245 are general education courses that do not count toward the major in Music.

Music Minor

Minor in Music

Minor in Music requirements

In consultation with a faculty advisor, students may select any 12 credits from the music major to create a Minor in Music. It is recommended that students seek a balance between history, theory, and performance with the following as a suggested program:

MSH 200	Introduction to Music History and Culture	3
MST 236	Theory I	3
MST 266	Musicianship I	1
At least 2 ensemble credits (1 credit for each ensemble) from MSP 100/20X Series		
One other course of the student's choosing (3)		

Digital Music Applications Minor

Minor in Digital Music Applications

The minor in Digital Music Applications requirements:

The Minor in Digital Music Applications is a 16-credit program that combines fundamentals of music theory with creative applications in a digital environment.:

MST 236	Theory I	3
MST 266	Musicianship I	1
MST 221	Fundamentals of Film Music	3

MST 321	Creating Music with Computers	3
MST 322	Recording Techniques and Studio Production	3
MST 323	Scoring for Media	3 (can be repeated to a maximum of 6).

Theatre, B.A. (42 Credit Major)

The Theatre BA is intended for students interested in preparing themselves for careers as theatre artists or administrators, for those who intend to pursue graduate study in theatre or a related field, and for those who will be pursuing the Minor to Master's Program in the Department of Early Childhood and Childhood Education and plan to become general education teachers:

Credits (42)

25 required core credits:

THE 204	Production Workshop I	1 (may be repeated for up to 2)
THE 205	Voice for the Stage	2 (may be repeated once)
THE 208	Acting I	3
THE 211	Play Analysis	3
THE 235	Stagecraft	3
THE 306/DNC 306	Production Workshop II	1 (may be repeated for up to 2)
THE 308	Playwriting	3
THE 326/CLT 326/THE 326	History of the Theatre I	3
THE 327	History of The Theatre II	3
THE 348	Performing Arts Management	3

3 credits selected from:

THE 370	Theatre Internship	3
THE 449	Working in the Performing Arts	3
THE 314/DNC 314	Advanced Production and Design Workshop	3

2 credits selected from:

THE 200	Theatre Departmental	1 (can
---------	----------------------	--------

	Production	be repeated for up to 2)
DNC 209	Dance Departmental Production	1 (may be repeated for up to 2)

12 elective credits selected in consultation with a Theatre faculty advisor.

Students choose either the Flexible Electives Option or the Liberal Arts Electives Option:

Flexible Electives Option 12 credits selected from:
200- 300- or 400-level THE courses

In the Flexible Electives Option, students can substitute up to 3 credits of DNC courses for 3 credits of THE.

At least 6 flexible THE elective credits must be at the 300-400 level.

THE 241 may not count as an elective for the Theatre BA but it is recommended that students take THE 241 to fulfill a General Education Requirement.

Or:

Liberal Arts Electives Option 12 credits selected from:

THE 238/AAS	African American Theatre	3
238/THE 238		
THE 243	Queer Theatre	3
THE 3280	History of Musical Theatre	3
THE 332	Theatre Theory	3
THE 408	Advanced Playwriting Workshop	3
THE 439/THE 439	Studies in the Greek and Roman Theatre	3
THE 440	Studies in Elizabethan and Jacobean Theatre	3
THE 442/THE 442	Studies in Modern Theatre	3
THE 443	Contemporary World Theatre	3
THE 445	Studies in Restoration and 18th Century Theatre	3
THE 454	Special Studies in Theatre	3
ENG 226	Shakespeare Now	3
ENG 312	Shakespeare in Context	3
ENG 334	Drama	3
ENG 348	Western Traditions--Drama	3
DNC 420	Dance History	3

Theatre BA students who are pursuing the Minor-to-Masters program in the Department of Early Childhood and Childhood Education must select the Liberal Arts Electives Option.

THE 454 - (if the topic corresponds to the New York State Department of Education's definition of "liberal arts").

Theatre Minor

Required Courses (12 Credits):

THE 208	Acting I	3
THE 235	Stagecraft	3
THE	THE at the 300- or 400-level	6

Theatre Management Minor (12 Credits)

The distribution of courses is as follows:

THE 348	Performing Arts Management	3
THE 448	Advanced Performing Arts Management	3
BBA 204/BBA 204/BBA 304	Principles of Management	3
BBA 407	Strategic Management	3

Not open to students majoring in Business Administration.

Dance, B.A. (42 Credit Major)

The Major in Dance is intended for students interested in preparing themselves for careers as dance artists, dance educators, or dance therapists, as well as for those who intend to pursue graduate study. The required courses and credits are distributed as follows:

Credits (42)

19

THE 204	Production Workshop I	1 (may be repeated for up to 2)
DNC 220/DNC 220/THE 220	Movement for Actors and Dancers	3
THE 220/DNC 220/THE 220	Or Movement for Actors and Dancers	3
THE 235	Stagecraft	3
DNC 230/THE 230	Body and Wellness I	2
THE 230/DNC 230	Or Body and Wellness I	2

DNC 306/THE 306	Production Workshop II	1 (may be repeated for up to 2)	repeated for up to 6)
THE 306/DNC 306	Or Production Workshop II	1 (may be repeated for up to 2)	3 (may be repeated for up to 6)
DNC 345	Choreography and Improvisation	3	3 (may be repeated for up to 6)
DNC 420	Dance History	3	
DNC 445	Advanced Student Performance Workshop	1 (may be repeated for up to 3)	
DNC 451	Choreographic Workshop II	2	
3 credits selected from:			
DNC 251	West African and Diasporic Dance I	3 (may be repeated for up to 6)	
DNC 356	West African and Diasporic Dance II	3 (may be repeated for up to 6)	
3 credits selected from:			
DNC 210	Hip Hop, House and Vogue I	3 (may be repeated for up to 6)	
DNC 322	Hip Hop, House and Vogue II	3 (may be repeated for up to 6)	
3 credits selected from:			
DNC 211	Modern Dance/Ballet I	3 (may be repeated for up to 6)	
DNC 311	Modern Dance/Ballet II	3 (may be repeated for up to 6)	
3 credits selected from:			
DNC 207	Special Topics in Latin Dance I		3 (may be repeated for up to 6)
DNC 317	Special Topics in Latin Dance II		3 (may be repeated for up to 6)
3 credits selected from:			
DNC 261	Technique Workshop: West African and Diasporic Dance I		1
DNC 366	Technique Workshop: West African and Diasporic Dance II		1 (may be repeated for up to 2)
DNC 240	Technique Workshop: Hip Hop, House and Vogue I		1 (may be repeated for up to 2)
DNC 332	Technique Workshop: Hip Hop, House and Vogue II		1 (may be repeated for up to 2)
DNC 213	Technique Workshop: Modern Dance/Ballet I		1 (may be repeated for up to 2)
DNC 313	Technique Workshop: Modern Dance/Ballet II		1 (may be repeated for up to 2)
DNC 208	Technique Workshop Latin Dance I		1 (may be repeated for up to 2)
DNC 318	Technique Workshop: Latin Dance II		1 (may be repeated for up to 2)

to 2)

3 credits selected from:

DNC 314/THE 314	Advanced Production and Design Workshop	3
DNC 371	Dance Internship	3
DNC 449	Working in the Performing Arts	3
DNC 460	Advanced Technique Practicum	3

2 credits selected from:

THE 200	Theatre Departmental Production	1 (can be repeated for up to 2)
DNC 209	Dance Departmental Production	1 (may be repeated for up to 2)

Electives (3)

3 Additional credits in Dance selected from DNC courses at the 200-level or above

Or

THE 348	Performing Arts Management	3
---------	----------------------------	---

****DNC 235 Dance Perspectives and DNC 222 Body and Society cannot be used to fulfill the Dance Elective but it is recommended that students take DNC 235 Dance Perspectives and DNC 222 Body and Society to fulfill general education requirements.**

Dance Minor

The Minor in Dance consists of 12 credits distributed as follows:

DNC 235	Dance Perspectives	3
DNC	200- to 400-level DNC courses	9

Nine credits 200- to 400- level DNC courses: Selected from 200- to 400-level DNC courses with at least 6 of the credits from 300- or 400-level courses.

Mind-Body Wellness Minor

The 12-credit Minor in Mind-Body Wellness consists of four courses, plus 2 elective credits in dance. It addresses philosophies and techniques related to the mind-body connection.

Required Courses**Courses**

DNC 222	The Body and Society	3
DNC 230/THE 230	Body and Wellness I	2
	Or	
THE 230/DNC 230	Body and Wellness I	2
DNC 330/THE 330	Body and Wellness II	2
	Or	
THE 330/DNC 330	Body and Wellness II	2
DNC 340	Mind-Body Connection Two additional credits in Dance	3

Multimedia Performing Arts, B.F.A. (60 Credit Major)

The interdisciplinary Major in Multimedia Performing Arts leads to the Bachelor of Fine Arts degree (B.F.A.). The major provides training in multimedia performing arts including dance, theatre, and film.

The required courses and credits are distributed as follows:

Core Requirements (26)

THE 204	Production Workshop I	1 (may be repeated for up to 2)
THE 205	Voice for the Stage	2 (may be repeated once)
THE 208	Acting I	3
THE 235	Stagecraft	3
DNC 225	Tools for Digital Storytelling	3
	Or	
THE 225	Tools for Digital Storytelling	3
DNC 220/DNC 220/THE 220	Movement for Actors and Dancers	3
	Or	
THE 220/DNC 220/THE 220	Movement for Actors and Dancers	3

DNC 306/THE 306	Production Workshop II	1 (may be repeated for up to 2)			to 3)
	Or		3 credits selected from:		
			DNC 251	West African and Diasporic Dance I	3 (may be repeated for up to 6)
THE 306/DNC 306	Production Workshop II	1 (may be repeated for up to 2)	DNC 356	West African and Diasporic Dance II	3 (may be repeated for up to 6)
DNC 323	Improvisation	3			
	Or		3 credits selected from:		
THE 323	Improvisation	3	DNC 210	Hip Hop, House and Vogue I	3 (may be repeated for up to 6)
DNC 425	Devised Multimedia Performance	3			
	Or		DNC 322	Hip Hop, House and Vogue II	3 (may be repeated for up to 6)
THE 425	Devised Multimedia Performance	3			
DNC 495/THE 495	Multimedia Performing Arts Project	2			
	Or		3 credits selected from:		
THE 495/DNC 495	Multimedia Performing Arts Project	2	DNC 211	Modern Dance/Ballet I	3 (may be repeated for up to 6)
			DNC 311	Modern Dance/Ballet II	3 (may be repeated for up to 6)
2 credits selected from:					
THE 200	Theatre Departmental Production	1 (can be repeated for up to 2)			
DNC 209	Dance Departmental Production	1 (may be repeated for up to 2)			
			3 credits selected from:		
			DNC 207	Special Topics in Latin Dance I	3 (may be repeated for up to 6)
			DNC 317	Special Topics in Latin Dance II	3 (may be repeated for up to 6)
Dance Track (34 credits)					
DNC 230/THE 230	Body and Wellness I	2			
	Or				
THE 230/DNC 230	Body and Wellness I	2			
DNC 345	Choreography and Improvisation	3			
DNC 420	Dance History	3			
DNC 445	Advanced Student Performance Workshop	1 (may be repeated for up to 2)			
			1 credit selected from:		
			DNC 261	Technique Workshop: West African and Diasporic Dance I	1
			DNC 366	Technique Workshop: West African and Diasporic Dance II	1 (may be repeated for up to 6)

II repeated
for up
to 2)

1 credit selected from:

DNC 240	Technique Workshop: Hip Hop, House and Vogue I	1 (may be repeated for up to 2)
DNC 332	Technique Workshop: Hip Hop, House and Vogue II	1 (may be repeated for up to 2)

1 credit selected from:

DNC 213	Technique Workshop: Modern Dance/Ballet I	1 (may be repeated for up to 2)
DNC 313	Technique Workshop: Modern Dance/Ballet II	1 (may be repeated for up to 2)

1 credit selected from:

DNC 208	Technique Workshop Latin Dance I	1 (may be repeated for up to 2)
DNC 318	Technique Workshop: Latin Dance II	1 (may be repeated for up to 2)

3 credits selected from:

DNC 314/THE 314	Advanced Production and Design Workshop	3
DNC 371	Dance Internship	3
DNC 449	Working in the Performing Arts	3
DNC 460	Advanced Technique Practicum	3

Electives (6 credits) Selected in Consultation with an Advisor

Any 200-, 300- or 400-level DNC (except DNC 235 and DNC 222)
Any 200-, 300- or 400-level THE (except THE 241)

Theatre Track (34 credits)

THE 211	Play Analysis	3
THE 305	Advanced Voice for the Stage	2
THE 309	Digital Storytelling	3
THE 326/CLT 326/THE 326	History of the Theatre I	3
THE 331	Acting II	3
THE 335	Directing I	3
THE 344	Acting for the Camera	3
THE 348	Performing Arts Management	3

3 credits selected from:

THE 238/AAS 238/THE 238	African American Theatre	3
THE 243	Queer Theatre	3
THE 327	History of The Theatre II	3
THE 443	Contemporary World Theatre	3
DNC 420	Dance History	3
THE 3280	History of Musical Theatre	3

3 credits selected from:

THE 370	Theatre Internship	3
THE 314/DNC 314	Advanced Production and Design Workshop	3
THE 449	Working in the Performing Arts	3
THE 492	Research Project in Theatre	3

Electives (5 credits) Selected in Consultation with an Advisor

Any 200-, 300- or 400-level DNC (except DNC 235 and DNC 222)
Any 200-, 300- or 400-level THE (except THE 241)

****** It is recommended that students take DNC 235, DNC 222 or THE 241 to fulfill a General Education Requirement. DNC 235, DNC 222 and THE 241 may not count as electives within the Multimedia Performing Arts BFA.

Statement of Credits for Dance Performing Groups

Students may earn a maximum of 4 credits for participation in the dance performing groups, with no more than 1 credit to be assigned for one dance group each semester.

Nursing

Chair: Catherine Alicia Georges (Building T-3, Room 209)

Department Faculty: Professors: Catherine Alicia Georges, Martha Velasco-Whetsell; Associate Professors: Eleanor Campbell, Cassandra Dobson, Linda Scheetz; Assistant Professors: Carole Baraldi, Claudette Gordon, Sheila Hankin, Brenda Hernandez-Acevedo, Mary Joseph, Gwendolyn Lancaster, Sandra Maldonado, Natasha Nurse-

Clarke, Korto Scott, Mary G. Tesoro; Clinical Assistant Professors: Barbara Baldwin, Catherine Healy-Sharbaugh, Ivreen Robinson; Doctoral Lecturer: Carol Bues; Lecturers: Margaret Clifton, Theresa Lundy, Mary Mathew; Chief College Lab Technician: Marcia Brown; Emeritus Professors: Barbara Backer, Keville Frederickson, Beatrice Goodwin, Paulette Robischon

The Department of Nursing offers a Bachelor of Science degree in Nursing for non-nurses and for Registered Nurses licensed in New York State. The upper-division Nursing program, which leads to a B.S. degree, is designed to prepare for a career and to build a foundation for graduate study in professional nursing. It fulfills the requirements of the New York State Education Department. This baccalaureate degree program in Nursing at Lehman College is accredited by the Commission on Collegiate Nursing Education (<http://www.ccnaccreditation.org>), and entitles its graduates to take the National Council Licensing Examination (NCLEX) for licensure as a registered nurse. The clinical laboratory sections of the Nursing courses are conducted in diverse and culturally rich clinical facilities in the Bronx, Westchester, and other surrounding communities. Independent study and honors projects are available to qualified students.

Traditional Generic Nursing Program (Nursing B.S., 75 Credit Major): Designed to be completed in four academic years, the traditional generic program is a 75-credit major within a total of 120 credits required for graduation. Students must complete their general education, distribution, and prerequisite courses in the first two years of study and then embark on a concentrated study of professional nursing, supported by the liberal arts and sciences. The traditional generic Nursing curriculum is designed for full-time study only. The program aims to help students gain the knowledge and experience needed to function independently, as well as in collaboration with other members of the healthcare team, and to help individuals and families achieve maximum levels of health. Graduates will have developed skills in critical thinking and the ability to provide competent and compassionate care to a diverse population.

Accelerated Generic Nursing Program (Nursing B.S., 75 Credit Major): The Department offers the Generic Accelerated Nursing Program. The Applicants must have a 4-year Bachelor's Degree (any discipline) and meet the admission requirements for the Nursing Department. Applicants will follow the traditional generic nursing path, conditions, and application procedures as described in the Department of Nursing's Nursing B.S., 75 Credit Major. Applicants for the Accelerated Generic Nursing Program must meet all of the same eligibility requirements outlined in the Traditional Generic program for prerequisite courses, testing, legal status, and any other College and Department requirements and deadlines, in order to submit an Accelerated

Generic Nursing application. Including the Generic Nursing courses, this is a full-time program. Accelerated nursing courses will be held every month during: fall, winter, spring, and both summer sessions. If accepted into the Accelerated Generic Nursing Program, this program must be completed in 14 months.

R.N. to B.S. Nursing Program (Traditional) for Registered Nurses (Nursing B.S., 37.5 Credit Major, for registered nurses only): Graduates of Associate Degree programs in nursing and graduates of hospital schools of nursing (diploma programs) who are licensed as Registered Professional Nurses in New York State are eligible for admission to the program. R.N. students are required to complete a 37.5-credit major of the total 120 credits required for graduation. Graduates of Associate Degree programs should follow directions for transfer students when applying for admission to the College and then seek advisement in the Office of Academic Advisement, Shuster Hall, Room 280, in addition to advisement in the Department of Nursing. Graduates of hospital schools of nursing who have not earned previous college credits should follow directions for new applicants to the College and then see an adviser in the Adult Degree Program. Graduates of diploma nursing programs are encouraged to take the Excelsior College (formerly Regents College) exams in Adult Nursing, Maternal and Child Nursing, and Psychiatric Mental Health Nursing to earn advanced standing credits.

B.S. for Registered Nurses - Online Option: Applicants for the RN-BS Online option must be graduates of Associate Degree programs in nursing who are licensed as Registered Professional Nurses in New York State and are eligible for admission to the program. R.N. students are required to complete a 37.5-credit major of the total 120 credits required for graduation. Applicants must meet the requirements for admission to the Traditional RN-BS nursing program. All courses in this option will be offered online, including both nursing and liberal arts courses. Applicants to the RN-BS Online program should follow directions for transfer students when applying for admission to the College and then seek advisement in the Department of Nursing.

Applying to the Nursing Program

All applicants to the program must first apply for admission to the College. After being admitted to the College, applicants apply to the Department of Nursing for admission to the program.

Applicants must have completed a minimum of 60 credits before being admitted to the Nursing program. Transfer students should submit a copy of their evaluation of transfer credits from the Admissions Office. Second-degree students must file a Second Degree Area of Concentration form in the

Office of Academic Standards and Evaluation, Shuster Hall 280.

Generic students (*both traditional and accelerated*) planning to enroll in NUR courses in the fall semester of their junior year must complete and submit an application to the Department of Nursing by March 15 of the previous spring semester.

Registered nurses (*both traditional and online*) may apply at any time during the academic year. Applications are available in the Department of Nursing Office (T-3 Building, Room 201) during College business hours and at the Department's website at <http://www.lehman.edu/academics/health-human-services-nursing/nursing/>. Applicants must also submit official transcripts of all previous college work and a copy of the Transfer Credit Evaluation form if they are transfer students. All required prerequisite science and foundation courses must be completed prior to admission to the program. Students who have been dropped from another Nursing program for any reason are not admissible to the Nursing program at Lehman unless the student has subsequently passed the NCLEX exam and become a registered nurse.

Requirements for Entrance into the Bachelor of Science Program in Nursing (Generic Programs: Traditional and Accelerated)

To enter the Nursing Program, students must earn a minimum grade of "C" or better in each of the science courses and foundation course listed below, with a minimum cumulative index of 2.75 in these science courses, or their equivalents, and a cumulative index of 2.0 or greater for all college work.

Science Courses Required:

CHE 114	Essentials of General Chemistry Lecture	3
CHE 115	Essentials of General Chemistry Laboratory	1.5
CHE 120	Essentials of Organic Chemistry Lecture I	3
CHE 121	Essentials of Organic Chemistry Laboratory II	1.5
BIO 181	Anatomy and Physiology I	4
BIO 182	Anatomy and Physiology II	4
BIO 230	Microbiology	4
HIN 268	Growth and Development	3

A grade of "C" or better is required in the following Foundation course:

A grade of "C" or better is required in the following Foundation course:

HIN 269: Analysis and Action for Community Health (3 credits; prior to or after admission)

HIN 269	Analysis and Action for Community Health	3
---------	---	---

Students must also pass the HESI A2 Admission Assessment Exam (see distance testing information under advisement & testing on Department's Website). Students must pass the HESI A2 exam in order to be considered for admission to the traditional and accelerated generic nursing programs.

The City University of New York has instituted the following requirement: Beginning in the Fall 2009 semester, all CUNY Nursing Departments will require applicants for admission into Nursing programs to provide documentation in one of the following categories: U.S. Citizenship; Permanent Residency; International student with F1 Status; or Granted Asylum, Refugee Status, Temporary Protected Status, Withholding of Removal, or Deferred Action Status by the U.S. Government. There will be no exceptions to this policy.

REVISED NURSING PROGRAMS ADMISSION POLICY

June 24, 2020: Effective immediately, all CUNY nursing programs will consider applicants for admission who are eligible for licensing in New York under the regulations of the New York State Education Department. The regulation provides eligibility for citizens and non-citizens who are "not unlawfully present," including those with Deferred Action for Childhood Arrivals (DACA) and those permanently residing in the United States under color of law (PRUCOL). Applicants may demonstrate eligibility through documents that verify that they meet the required criteria. The most common documents include:

1. Proof of U.S. citizenship through a birth certificate, U.S. passport, naturalization certificate, or a certificate of citizenship.
2. Proof of legal permanent resident status with what is known as a "Green Card".
3. Proof of various eligible categories, listed below, generally through an employment authorization document (EAD) or other satisfactory documentation. Eligible immigration categories: 1. International student with F-1 status 2. Asylee 3. Refugee
4. Temporary Protected Status (TPS)
5. Deferred Action for Childhood Arrivals (DACA)
6. Individuals paroled into the United States whose parole has not expired
7. Persons residing in the U.S. pursuant to an Order of Supervision
8. Persons granted a stay of deportation/removal
9. Persons granted an indefinite voluntary departure
10. Persons on whose behalf an immediate relative petition has been approved
11. Persons who have filed an application for adjustment of status to permanent resident

12. Persons granted Deferred Action Status
13. Persons who entered and have continuously residency in the U.S. before 01/01/1972
14. Persons granted suspension of deportation or cancellation of removal
15. Cuban/Haitian entrants
16. Persons with a pending application for asylum, withholding of removal or deportation, protection under the Convention Against Torture (CAT), cancellation of removal, or TPS
17. Persons in T or U non-immigrant status
18. Self-petitioner under the Violence Against Women Act
19. Other persons living in the U.S. who are not unlawfully present

Requirements for Entrance into the Bachelor of Science Program in Nursing for Registered Nurses (Licensed in New York State)

To enter the **Traditional RN-BS Nursing program**, graduates of Associate Degree programs in nursing and graduates of diploma programs who are currently licensed as Registered Professional Nurses in New York State are eligible to apply for admission to the B.S. program after completing 60 college credits with a cumulative index of 2.5 or greater and providing evidence of college courses in *chemistry and human growth and development (or their equivalents)*. Some students may qualify to earn credits for the human growth and development course through a validation examination. Students must seek advisement in the Department of Nursing for this process. Registered nurses may pursue either full-time or part-time study.

Course Requirements

Pre-requisite sciences (4.5 credits)

CHE 114	Essentials of General Chemistry Lecture	3
CHE 115	Essentials of General Chemistry Laboratory	1.5

Foundation Course (Prior to Admission)

HIN 268	Growth and Development	3
---------	------------------------	---

Foundation Course (Prior to or After Admission)

HIN 269	Analysis and Action for Community Health	3
---------	---	---

Nursing Courses

NUR 300	Nursing as a Human Science	3
NUR 302	Ways of Knowing in Nursing	3
NUR 400	Professional Nursing Practice	6
NUR 406	Clinical Decision Making	3
NUR 408	Trends and Issues in Nursing and Health Care	3

NUR 409	Therapeutic Intervention V: Nursing Synthesis	6
NUR 410	Professional Nursing Management	3

Requirements for Entrance into the Bachelor of Science Program in Nursing for Registered Nurses - ONLINE OPTION (Licensed in New York State)

To enter the **RN-BS Online Nursing program**, graduates of Associate Degree programs in nursing who are currently licensed as Registered Professional Nurses in New York State and are eligible to apply for admission to the B.S. program after completing 60 college credits with a cumulative index of 2.5 or greater and providing evidence of college courses in *English composition, college level math, chemistry, and human growth and development (or their equivalents)*. This RN-BS online option is a cohort program; students register for the courses offered according to the nursing curriculum plan.

The Online RN-BS Program is designed specifically for Registered Nurses to earn a Bachelor Degree 100% online. It is a 37.5-credit major of the total 120 credits required for graduation. Graduates of Associate Degree Nursing Programs and Registered Nurses with a Bachelor's Degree in another field must apply to the College as transfer students. Graduates of hospital/diploma programs who have not earned previous college credits should follow directions for new applicants to the College.

Prerequisites

- *Current Registered Nurse with an unencumbered nursing licensure and registration in New York State
- Completion of sixty (60) college credits with a grade point average of 2.5 or greater or an associate degree in nursing from a CUNY or SUNY school
- Official transcript(s) from all schools attended which exhibits evidence of a college level course in Chemistry, or Chemistry taken in a state approved nursing program (or its foreign equivalent), or successful completion of the following courses at Lehman College:
 - CHE 114: Essentials of General Chemistry: 3 credits
 - CHE 115 : Essentials of Chemistry Lab: 1.5 credits
 - **Human Growth and Development - Successful completion of a college level Human Growth and Development across the Lifespan course, totaling 3 credits

*After applying, you may email a PDF copy of your license and registration to Cassandra Dobson at cassandra.dobson@lehman.cuny.edu.

**Students who are Registered Nurses qualify for a challenge exam to earn credit for this course. Please contact Cassandra

Dobson at cassandra.dobson@lehman.cuny.edu for additional information regarding this process.

Associate of Applied Science (A.A.S) Degree holders applying to this program must have:

- Math 126 (Quantitative Reasoning) or higher (or the equivalent) or a
- Math course taken at, or transferred in to, a previous CUNY school that fulfilled the Quantitative and Mathematical Reasoning requirement at that school

For holders of Bachelor Degrees, Associate of Arts (A.A.) and Associate of Science (A.S.) Degrees, the College Math requirement is waived.

Graduates of Associate Degree Nursing Programs and Registered Nurses with a Bachelor's Degree in another field must apply to the College as transfer students. Graduates of hospital/diploma programs who have not earned previous college credits should follow directions for new applicants to the College.

Graduates of diploma nursing programs are encouraged to take the Excelsior College (formerly Regents College) exams in Adult Nursing, Maternal and Child Nursing, and Psychiatric Mental Health Nursing to earn advanced standing credits.

Course Requirements

Pre-requisite sciences (4.5 credits)

CHE 114	Essentials of General Chemistry Lecture	3
CHE 115	Essentials of General Chemistry Laboratory	1.5

Foundation Course (Prior to Admission)

HIN 268	Growth and Development	3
---------	------------------------	---

Foundation Course (Prior to or After Admission)

HIN 269	Analysis and Action for Community Health	3
---------	--	---

Nursing Courses

NUR 300	Nursing as a Human Science	3
NUR 302	Ways of Knowing in Nursing	3
NUR 400	Professional Nursing Practice	6
NUR 406	Clinical Decision Making	3
NUR 408	Trends and Issues in Nursing and Health Care	3
NUR 409	Therapeutic Intervention V: Nursing Synthesis	6
NUR 410	Professional Nursing Management	3

Students applying to this program will apply as transfer students listing Lehman College as their first choice. You may apply to the program by clicking on this link:

<http://www2.cuny.edu/admissions/apply-to-cuny/undergraduate-applicant/>

For directions on how to apply, you may view this video:

<http://www2.cuny.edu/admissions/apply-to-cuny/undergraduate-applicant/>

For additional admissions information for the Online RN-BS program, please contact Cassandra Dobson at cassandra.dobson@lehman.cuny.edu.

Generic Nursing, B.S. (75 Credit Major)

Prerequisite sciences (24 credits)

CHE 114	Essentials of General Chemistry Lecture	3
CHE 115	Essentials of General Chemistry Laboratory	1.5
CHE 120	Essentials of Organic Chemistry Lecture I	3
CHE 121	Essentials of Organic Chemistry Laboratory II	1.5
BIO 181	Anatomy and Physiology I	4
BIO 182	Anatomy and Physiology II	4
BIO 230	Microbiology	4
HIN 268	Growth and Development	3

Foundation Course (Prior to or After Admission)

HIN 269	Analysis and Action for Community Health	3
---------	--	---

Nursing Courses (48 credits)

NUR 300	Nursing as a Human Science	3
NUR 301	Therapeutic Intervention I: Introduction to Professional Nursing Practice	6
NUR 302	Ways of Knowing in Nursing	3
NUR 303	Therapeutic Intervention II: Adult Health Nursing	6
NUR 304	Therapeutic Intervention III: Psychiatric-Mental Health Nursing	3
NUR 330	Pharmacologic Basis of Nursing Practice	3
NUR 344	Altered Health States	3
NUR 405	Therapeutic Intervention IV: Childbearing and Childrearing Families	6
NUR 406	Clinical Decision Making	3
NUR 408	Trends and Issues in Nursing and Health Care	3
NUR 409	Therapeutic Intervention V: Nursing Synthesis	6
NUR 410	Professional Nursing Management	3

RN-BS Nursing, B.S. (37.5 Credit Major) (for Registered Nurses Only)

Course Requirements:

Pre-requisite sciences (4.5 credits)

CHE 114	Essentials of General Chemistry Lecture	3
CHE 115	Essentials of General Chemistry Laboratory	1.5

Foundation Course (Prior to Admission)

HIN 268	Growth and Development	3
---------	------------------------	---

Foundation Course (Prior to or After Admission)

HIN 269	Analysis and Action for Community Health	3
---------	---	---

Nursing Courses

NUR 300	Nursing as a Human Science	3
NUR 302	Ways of Knowing in Nursing	3
NUR 400	Professional Nursing Practice	6
NUR 406	Clinical Decision Making	3
NUR 408	Trends and Issues in Nursing and Health Care	3
NUR 409	Therapeutic Intervention V: Nursing Synthesis	6
NUR 410	Professional Nursing Management	3

RN-BS Nursing, B.S. (37.5 Credit Major) Online Option (for Registered Nurses Only)

Course Requirements:

Pre-requisite sciences (4.5 credits)

CHE 114	Essentials of General Chemistry Lecture	3
CHE 115	Essentials of General Chemistry Laboratory	1.5

Foundation Course (Prior to Admission)

HIN 268	Growth and Development	3
---------	------------------------	---

Foundation Course (Prior to or After Admission)

HIN 269	Analysis and Action for Community Health	3
---------	---	---

Nursing Courses (27 credits)

NUR 300	Nursing as a Human Science	3
NUR 302	Ways of Knowing in Nursing	3
NUR 400	Professional Nursing Practice	6
NUR 406	Clinical Decision Making	3
NUR 408	Trends and Issues in Nursing and Health Care	3
NUR 409	Therapeutic Intervention V: Nursing Synthesis	6
NUR 410	Professional Nursing	3

Management

The Quantitative and Mathematical reasoning requirement for the Bachelor Degree may be satisfied by either:

The Quantitative and Mathematical reasoning requirement for the Bachelor Degree may be satisfied by either:

- Math 126 (Quantitative Reasoning) or higher (or the equivalent) or a
- Math course taken at, or transferred in to, a previous CUNY school that fulfilled the Quantitative and Mathematical Reasoning requirement at that school

Department Grade Requirement

A minimum grade of C (73) or better is required in each of the prerequisite science courses, or their equivalents, to be eligible for admission to the generic Nursing program. If a prerequisite science course is repeated, the first grade will be counted when considering eligibility for admission to the Nursing program. A minimum grade of C (73) is required for a student to progress from one Nursing course to the next. Nursing students may repeat only one HIN or NUR course. Note: A student who does not achieve a grade of C or better in a NUR or HIN course may repeat the course only once and must attain a B.

Time Limit to Complete the Nursing Program

In addition to the College requirement for completion of the baccalaureate degree, the following time limit applies: Once admitted to the Nursing program, the student must complete the baccalaureate degree in Nursing within five years. Students who do not meet this time requirement may reapply to have the currency of their Nursing courses reevaluated. Students may be required to demonstrate current knowledge as evidenced by recent or present practice, portfolio, or certification.

Philosophy

Chair: Julie Maybee (Carman Hall, Room 360)

Department Faculty: Professors: James Mahon (Dean of Arts and Humanities), Julie Maybee (Chair of Department), Naomi Zack; Associate Professors: Michael Buckley, Rosalind Carey; Assistant Professors: Emann Allebban, Collin O'Neil

Philosophy is the pursuit of wisdom about ourselves, others, and the world through sustained reflection on general questions - e.g. what is the nature of thought, what is the purpose of life - arising from the human experience. Philosophy is thus both a body of knowledge and a set of skills. The Department of Philosophy offers students the

opportunity to gain knowledge of the best of philosophical literature and to develop their own skill in analysis and argument, both written and oral.

The Department offers students a Major leading to the BA. It also offers a Minor. The Department participates in the interdisciplinary programs in Linguistics and Disability Studies.

Philosophy, B.A. (27-Credit Major)

Students who Major in Philosophy may choose either Option A: Knowledge and Reality or Option B: Ethics and Public Policy.

Option A: Knowledge and Reality

1. One 3-credit course in Logic (Category 1)
2. One 3-credit introductory course (Category 2)

Of the remaining seven courses, at least three courses (9 credits) should be at the 300- or 400-level.

3. Two 3-credit courses in Knowledge, Language, and Mind (Category 3)
4. Two 3-credit courses in Ethics, Politics, and Aesthetics (Category 4)
5. Two 3-credit courses in Philosophical Traditions (Category 5), one of which must be either PHI 242 or PHI 243
6. One additional 3-credit course from Categories 3 or 5, or PHI 365.

Option B: Ethics and Public Policy (27 Credits)

1. One 3-credit course in Logic (Category 1)
2. One 3-credit introductory course (Category 2)

Of the remaining seven courses, at least three courses (9 credits) should be at the 300- or 400-level.

3. One 3-credit course in Knowledge, Language, and Mind (Category 3)
4. Four 3-credit courses in Ethics, Politics, and Aesthetics (Category 4)
5. One 3-credit course in Philosophical Traditions (Category 5)
6. One additional 3-credit course from Categories 3 or 5, or PHI 365.

Course Categories:

Category 1: Logic 1

PHI 170	Introduction to Logic	3
PHI 230/LNG	Intermediate Logic	3
266/PHI 230		

Category 2: Introductory Courses

PHI 169/PHI	Critical Reasoning	3
-------------	--------------------	---

229/PHI 169		
PHI 171	Problems of Philosophy	3
PHI 172	Contemporary Moral Issues	3
PHI 173	Justice and Society	3
PHI 174	Theories of Human Nature	3
PHI 175	Philosophy of Religion	3
PHI 176	Philosophy of Freedom	3
PHI 177/PHI	Philosophy of Contemporary	3
168/PHI 177	Music	

Category 3: Knowledge, Language, and Mind

PHI 231	Philosophy of Language	3
PHI 237	Issues in the Philosophy of Religion	3
PHI 349	Philosophy of Mind	3
PHI 353	Philosophy of Science	3
PHI 354/CLT	Philosophy of the Social	3
354/SOC 354/PHI 354	Sciences	
PHI 355	Theory of Knowledge	3
PHI 356	Metaphysics	3
PHI 357	Educating Kings and Citizens	3

Category 4: Ethics, Politics, and Aesthetics

PHI 218/POL	Fundamentals of Human Rights	3
218/HRP 218/PHI 218	and Peace	
PHI 221	Ethical Issues in Computing and Technology	3
PHI 232	Classical Ethical Theories	3
PHI 233	Aesthetics	3
PHI 234	Philosophy of Law	3
PHI 235	Political Philosophy	3
PHI 236	Social Philosophy	3
PHI 239	Philosophical Ideas in Literature	3
PHI 247	Environmental Ethics	3
PHI 248	Philosophy and Film	3
PHI 250	Contemporary Social Ethics	3
PHI 330	Business Ethics	3
PHI 336/DST	Disability, Ethics & the Body	3
336/PHI 336		
PHI 338/AAS	Race and Ethnicity in Society	3
338/PHI 338/SOC 338		
PHI 339	Philosophy of Sport	3
PHI 341	Medical Ethics	3
PHI 358	Ethical Theory	3
PHI 364/PHI	Capitalism and Its Critics	3
364/POL 364		
PHI 369/PHI	Global Justice	3
369/POL 369		
PHI 370	Legal Reasoning	3
PHI 434	Neuroethics	3

Category 5: Philosophical Traditions

PHI 225/PHI 225/WST 225	Philosophy and Gender	3
PHI 238	Asian Philosophies	3
PHI 241	Existentialism	3
PHI 242	History of Philosophy I: Ancient	3
PHI 243	History of Philosophy II: Modern	3
PHI 244	History of Philosophy III: Nineteenth Century	3
PHI 245	American Philosophy	3
PHI 251	History of Philosophy IV: 20th Century	3
PHI 269/AAS 269/PHI 269	Introduction to African Philosophy	3
PHI 305/AAS 305/PHI 305	African Philosophical Thought	3

Philosophy Honors

Students must achieve an A or A- grade in PHI 482 Honors Tutorial. They must also satisfy both the College requirements for graduation with Departmental honors and win the approval of the Department.

Philosophy Minor (12-Credit)

In Philosophy, at least 6 of which must be at the 300 or 400 level, and no more than 3 of which can be at the 100-level. (12 credits). Students can also choose a minor that complements their major. Available minors include: Business, Society, and Law; The Diverse World; Language and Logic; Understanding Science; and Wellbeing and the Helping Professions. Please inquire with the Department for details and to find out which minor may be most appropriate to your major.

Students who Minor in Philosophy may choose from a general Philosophy Minor or from several specialized options.

A. Philosophy (general)

12 credits: no more than three credits can be at the 100-level and at least six credits must be at the 300-level or 400-level.

B. Business, Society, and Law**3 credits: selected from:**

PHI 169/PHI 229/PHI 169	Critical Reasoning	3
PHI 170	Introduction to Logic	3
PHI 173	Justice and Society	3
PHI 176	Philosophy of Freedom	3

3 credits: selected from:

PHI 234	Philosophy of Law	3
PHI 235	Political Philosophy	3

PHI 247	Environmental Ethics	3
PHI 330	Business Ethics	3
PHI 354/CLT 354/SOC 354/PHI 354	Philosophy of the Social Sciences	3
PHI 359	Philosophical Problems in Legal Theory	3
PHI 364/PHI 364/POL 364	Capitalism and Its Critics	3
PHI 369/PHI 369/POL 369	Global Justice	3

6 credits: selected from:

PHI 330	Business Ethics	3
PHI 354/CLT 354/SOC 354/PHI 354	Philosophy of the Social Sciences	3
PHI 359	Philosophical Problems in Legal Theory	3
PHI 364/PHI 364/POL 364	Capitalism and Its Critics	3
PHI 369/PHI 369/POL 369	Global Justice	3

C. The Diverse World**3 credits: selected from:**

PHI 173	Justice and Society	3
PHI 174	Theories of Human Nature	3
PHI 176	Philosophy of Freedom	3

3 credits: selected from:

PHI 225/PHI 225/WST 225	Philosophy and Gender	3
PHI 236	Social Philosophy	3
PHI 238	Asian Philosophies	3
PHI 250	Contemporary Social Ethics	3
PHI 269/AAS 269/PHI 269	Introduction to African Philosophy	3
PHI 305/AAS 305/PHI 305	African Philosophical Thought	3
PHI 336/DST 336/PHI 336	Disability, Ethics & the Body	3
PHI 338/AAS 338/PHI 338/SOC 338	Race and Ethnicity in Society	3
PHI 363/HCU 363/PHI 363	Introduction to Jewish Philosophy	3

6 credits: selected from:

PHI 305/AAS 305/PHI 305	African Philosophical Thought	3
PHI 336/DST 336/PHI 336	Disability, Ethics & the Body	3
PHI 338/AAS 338/PHI 338/SOC	Race and Ethnicity in Society	3

338		
PHI 363/HCU	Introduction to Jewish	3
363/PHI 363	Philosophy	

D. Language and Logic

3 credits: selected from:

PHI 169/PHI	Critical Reasoning	3
229/PHI 169		
PHI 170	Introduction to Logic	3

3 credits: selected from:

PHI 230/LNG	Intermediate Logic	3
266/PHI 230		
PHI 231	Philosophy of Language	3
PHI 251	History of Philosophy IV: 20th Century	3
PHI 351	Logic and Language	3
PHI 362	Analytic Philosophy	3

6 credits: selected from:

PHI 351	Logic and Language	3
PHI 362	Analytic Philosophy	3

E. Understanding Science

3 credits: selected from:

PHI 169/PHI	Critical Reasoning	3
229/PHI 169		
PHI 170	Introduction to Logic	3

3 credits: selected from:

PHI 221	Ethical Issues in Computing and Technology	3
PHI 230/LNG	Intermediate Logic	3
266/PHI 230		
PHI 247	Environmental Ethics	3
PHI 251	History of Philosophy IV: 20th Century	3
PHI 343	Philosophy of Technology	3
PHI 352	Probability and Induction	3
PHI 353	Philosophy of Science	3
PHI 354/CLT	Philosophy of the Social Sciences	3
354/SOC 354/PHI 354		
PHI 355	Theory of Knowledge	3

6 credits: selected from:

PHI 343	Philosophy of Technology	3
PHI 352	Probability and Induction	3
PHI 353	Philosophy of Science	3
PHI 354/CLT	Philosophy of the Social Sciences	3
354/SOC 354/PHI 354		
PHI 355	Theory of Knowledge	3

F. Wellbeing and the Helping Professions

3 credits: selected from:

PHI 169/PHI	Critical Reasoning	3
229/PHI 169		
PHI 173	Justice and Society	3
PHI 174	Theories of Human Nature	3
PHI 176	Philosophy of Freedom	3

3 credits: selected from:

PHI 236	Social Philosophy	3
PHI 241	Existentialism	3
PHI 246	Philosophies of the Self	3
PHI 247	Environmental Ethics	3
PHI 250	Contemporary Social Ethics	3
PHI 336/DST	Disability, Ethics & the Body	3
336/PHI 336		
PHI 354/CLT	Philosophy of the Social Sciences	3
354/SOC 354/PHI 354		
PHI 360	Philosophy of Protest & Liberation	3
PHI 364/PHI	Capitalism and Its Critics	3
364/POL 364		
PHI 369/PHI	Global Justice	3
369/POL 369		

6 credits: selected from:

PHI 336/DST	Disability, Ethics & the Body	3
336/PHI 336		
PHI 354/CLT	Philosophy of the Social Sciences	3
354/SOC 354/PHI 354		
PHI 360	Philosophy of Protest & Liberation	3
PHI 364/PHI	Capitalism and Its Critics	3
364/POL 364		
PHI 369/PHI	Global Justice	3
369/POL 369		

Physics and Astronomy

Chair: Dimitra Karabali

Department Faculty: Distinguished Professor: Eugene Chudnovsky; Professors: Luis Anchordoqui, Dmitry Garanin, Christopher C. Gerry, Daniel Kabat, Dimitra Karabali; Associate Professor: Matthew O'Dowd; Chief College Laboratory Technician: Elpidio Jiménez

The Department of Physics and Astronomy prepares students for positions in government and industry and for graduate study in physics and related fields. Students in the Department may choose either a 38-credit major leading to a B.A. degree or a 60-credit major leading to a B.S. degree. The Department also offers a variety of basic courses designed for general

education and for students in other departments, and cooperates with the Department of Middle and High School Education in preparing students to teach physics in secondary schools.

The Department of Physics and Astronomy also administers the Pre-engineering Transfer Program (p. 40). See the description of the requirements for this program earlier in this Bulletin, in the chapter entitled "Baccalaureate Programs (p. 28)."

Physics, B.A. (38 Credit Major)

The B.A. program in Physics is designed for students who, although not planning a career in physics research or college-level teaching, have a strong interest in physical science, particularly physics, and wish to prepare for a career in which a good basic knowledge of physics is useful. Among such careers are the health professions, elementary and secondary school science teaching, patent-law practice, industrial management, and science journalism. The minimum of 38 credits is distributed as follows:

Credits (38)

14 credits in required PHY courses:

PHY 168	Physics I for Scientists and Engineers	5
PHY 169	Physics II for Scientists and Engineers	5
PHY 207	Mathematics for the Physical Sciences	4

PHY 168, PHY 169: With permission from the Chair students may take PHY 166, PHY 167 in place of PHY 168, PHY 169.

12 credits in at least four additional PHY or AST courses at the 200 level or above:

With permission from the Chair one of these additional courses may be at the 100 level. No more than one of these additional courses may be chosen from PHY 487 and PHY 489.

12 credits in required MAT courses:

MAT 175	Calculus I	4
MAT 176	Calculus II	4
MAT 226	Vector Calculus	4

Physics, B.S. (60 Credit Major)

The B.S. program in Physics is designed for students who are planning a career in physics research and/or college-level teaching. Any student following this program may select the B.A. degree instead of the B.S. degree. The minimum of 60 required credits is distributed as follows:

Credits (60)

36 credits required in PHY courses:

PHY 168	Physics I for Scientists and Engineers	5
PHY 169	Physics II for Scientists and Engineers	5
PHY 207	Mathematics for the Physical Sciences	4
PHY 241	Modern Physics	4
PHY 251	Modern Physics Laboratory	2
PHY 301	Intermediate Electricity and Magnetism	4
PHY 302	Intermediate Mechanics	4
PHY 303	Thermodynamics and Statistical Mechanics	4
PHY 400	Introductory Quantum Mechanics	4

PHY 168, PHY 169: With permission from the Chair students may take PHY 166, PHY 167 in place of PHY 168, PHY 169.

6 credits in at least two additional PHY or AST courses at the 200 level or above:

With permission from the Chair one of these additional courses may be at the 100 level.

12 credits required in MAT courses:

MAT 175	Calculus I	4
MAT 176	Calculus II	4
MAT 226	Vector Calculus	4

6 credits in at least two additional MAT courses at the 200 level or above.

Physics Minor (19 Credits)

The Minor in Physics is designed for students who are interested in physics and want to go beyond the basic introductory courses.

The minimum of 19 required credits is distributed as follows:

10 credits required in PHY courses:

PHY 166	General Physics I	5
	And	
PHY 167	General Physics II	5
	Or	
PHY 168	Physics I for Scientists and Engineers	5
	And	
PHY 169	Physics II for Scientists and Engineers	5

9 credits in at least three additional PHY or AST courses at the 200 level or above:

With permission from the Chair one of these additional courses may be at the 100 level. No more than one of these additional courses may be chosen from PHY 487 and PHY 489.

Digital Technology and Electronics Certificate

The Certificate in Digital Technology and Electronics consists of 23 course credits covering electronics and computer programming and organization. The courses, offered by the Department of Physics and Astronomy and the Department of Computer Science, lead to a culminating internship or research experience. The Certificate is intended for

- Science majors, especially those interested in experimental science who need a working knowledge of electronic technology
- Computer science majors who want hands-on experience with electronic circuits and their use in computer architecture and engineering
- Students in the sciences and in other fields interested in careers involving digital technology and electronic devices

The Certificate provides students with a working knowledge of analog and digital circuit design, computer architecture and engineering, and both high-level and machine-level computer programming. Students are given the hands-on experience of working in teams to design, construct and program a functioning computer system.

Seven required courses (23 credits total)

Six courses (20 credits) in required physics and computer sciences courses:

PHY 165	Applied Physics	4
PHY 305	Analog circuits	3
PHY 315	Digital Circuits and Systems	3
CMP 167	Programming Methods I	3
CMP 168	Programming Methods II	4
CMP 334	Computer Organization	4

PHY 165: Students may take PHY 167 or PHY 169 in place of PHY 165.

One course (3 credits) in experiential learning:

	Either	
CMP 487	Internship in Computer Science	3 (maximum 6).
	Or	
PHY 487	Internship in Physics	3 (maximum 6).
	Or	
PHY 489	Honors Course	One semester, 6 or 9 hours, 2 or 3 (maximum 8).

Digital Technology and Electronics Minor (20 Credits)

The Minor in Digital Technology and Electronics consists of 20 course credits covering electronics and computer programming and organization. The courses are offered by the Department of Physics and Astronomy and the Department of Computer Science. The Certificate is intended for

- Science majors, especially those interested in experimental science who need a working knowledge of electronic technology
- Computer science majors who want hands-on experience with electronic circuits and their use in computer architecture and engineering
- Students in the sciences and in other fields interested in careers involving digital technology and electronic devices

The Minor provides students with a working knowledge of analog and digital circuit design, computer architecture and engineering, and both high-level and machine-level computer programming. Students are given the hands-on experience of working in teams to design, construct and program a functioning computer system.

Six required courses (20 credits total)

10 credits required in PHY courses:

PHY 165	Applied Physics	4
PHY 305	Analog circuits	3
PHY 315	Digital Circuits and Systems	3
Students may take PHY 167 or PHY 169 in place of PHY 165.		

10 credits required in CMP courses:

CMP 167	Programming Methods I	3
CMP 168	Programming Methods II	4
CMP 334	Computer Organization	4

Preparation for Secondary School Teaching

Students preparing to teach physics and general science at the secondary level are advised to supplement the minimum physics concentration with courses in astronomy, biology, chemistry, geology, and education, including ESC 419 (Methods of Teaching Science in Secondary School), which is offered by the Department of Middle and High School Education. That Department, as well as the Office of the Dean of Education (Carman Hall, B-33, 718-960-4972), will also provide information on certification requirements.

Pre-Engineering Transfer Program

Pre-Engineering Transfer Program

For further information, see link below:

<http://lehman.smartcatalogiq.com/en/2019-2021/Undergraduate-Bulletin/Baccalaureate-Programs/Professional-and-Preprofessional-Programs> (p. 40)

Health Careers Preparation Post-Baccalaureate Certificate Program (HealthBridge)

The Health Careers Preparation Post-Baccalaureate Certificate Program (HealthBridge) is aimed primarily at bachelor degree holders who decided to pursue a career in the health professions (medicine, dentistry, pharmacy, optometry, physical therapy, physician assistant studies, or veterinary medicine) while still undergraduates, but did not complete all of the required prerequisites. For some, this is because they have long had a dream of work in the health professions, but chose to defer it during their undergraduate work only to come back to it later in their lives. For others, they have made the decision to pursue a career in the health professions late in their undergraduate study, perhaps as seniors, leaving them insufficient time to complete their coursework. The program will also serve “career-changers,” that is, bachelor degree holders who did not pursue preparation for the health professions as undergraduates, but make the decision subsequent to graduation.

While this program will accept students from all backgrounds, we believe it is an especially important option for students who are underrepresented in the health professions, and may therefore be more likely to commit to a career in the health professions relatively late in their academic careers.

Students pursuing the Health Careers Preparation Post-Baccalaureate Certificate must choose one of seven tracks, based on their eventual career goal:

- Bridge to Medicine
- Bridge to Physician Assistant
- Bridge to Physical Therapy
- Bridge to Dental
- Bridge to Pharmacy
- Bridge to Optometry
- Bridge to Veterinary Medicine

Regardless of track, the Health Careers Preparation certificate is divided into two phases, the Foundational phase and the In Depth phase. It is not necessary to complete the Foundational phase in order to apply for admission to the In Depth phase. Students admitted to the Foundational phase must apply for admission to the In Depth phase once they meet those requirements. The certificate is awarded following successful completion of the In Depth phase.

Admission Requirements

Admissions to both the Foundational and In Depth phases are competitive.

The *minimum* standards for admission to the Foundational phase are:

- A bachelor’s degree (or its equivalent) from an accredited college or university
- Cumulative undergraduate grade point average (GPA) dependent on track:
 - 2.6 for Bridge to Pharmacy
 - 2.7 for Bridge to Dental or Bridge to Veterinary Medicine
 - 2.9 for Bridge to Optometry, Bridge to Physical Therapy, or Bridge to Physician Assistant
 - 3.0 for Bridge to Medicine
- Placement in to MAT 171 (Elements of Precalculus) or higher
- Personal statement indicating suitability and motivation for the program
- Letter of recommendation
- Interview

The *minimum* standards for admission to the In Depth phase are:

- A bachelor’s degree (or its equivalent) from an accredited college or university
- Cumulative undergraduate grade point average (GPA) dependent on track:
 - 2.8 for Bridge to Pharmacy
 - 2.9 for Bridge to Dentistry or Bridge to Veterinary Medicine
 - 3.0 for Bridge to Optometry, Bridge to Physical Therapy, or Bridge to Physician Assistant
 - 3.1 for Bridge to Medicine
- Placement in to calculus (this can be achieved by completion of MAT 171+108 or MAT 172 with a C or higher)
- Completion of ENG 111 (first semester English composition) or equivalent
- For Bridge to Medicine, Physician Assistant, Dentistry, Pharmacy, Optometry, and Veterinary Medicine: completion of CHE 168 and CHE 169 (second semester General Chemistry lecture and laboratory) or equivalent
- For Bridge to Physician Assistant, Physical Therapy, and Pharmacy: completion of BIO 181 (first semester Anatomy and Physiology with laboratory) or equivalent

- For Bridge to Medicine, Physician Assistant, Physical Therapy, Dental, Pharmacy, and Optometry: completion of PSY 166 (General Psychology) or equivalent
- Personal statement indicating suitability and motivation for the program
- Letter of recommendation
- Interview
- It is not necessary for a student to enroll in the Foundational phase in order to apply for the In Depth phase
- Students admitted to the Foundational phase are not guaranteed admission to the In Depth phase unless they meet the minimum standards specified above

Exceptions to Grade Policy

Students must complete at least 18 credits of the certificate in residence at Lehman during the Foundational and/or In Depth phases. Credits earned prior to matriculation in the certificate cannot be applied to the 18-credit minimum, even if they were earned at Lehman College.

Students must also complete at least 50% of the minimum credits required for their track in residency at Lehman, but this requirement can be satisfied in part by courses taken prior to matriculation in to the Certificate.

Example: the Bridge to Optometry track is 39-61 credits, so at least 19.5 credits (50% of 39, the minimum for the track) must be taken in residency at Lehman. At least 18 of those must be taken after matriculation in to either the Foundational or In Depth phase of the certificate program. The remaining 1.5 credits for residency must have been taken at Lehman, but could have been taken prior to matriculation in to the certificate program; for example, during the course of completion of a first degree at Lehman College. The balance of the 39 credits required for the Bridge to Optometry track within the certificate could come from any combination of eligible transfer credits, eligible credits taken in residency prior to matriculation in to the certificate program, and credits taken during the certificate program.

Residency in the Certificate

If a student begins the In Depth phase and does not receive C's or greater in all of the courses required for the certificate, they may apply to the Program for a waiver for up to two courses with grades lower than C. If that is not sufficient to allow awarding of the certificate (e.g. they withdrew from one or more required courses), they have one year to take or retake up to 12 credits, paying appropriate tuition, in order to earn the certificate.

Change of Tracks

At any time, students have the option to apply for a change of track. Approval of changes is at the discretion of the program,

but is more likely to be granted for a student requesting a change to a goal with lower minimum GPA requirements (e.g. Bridge to Optometry to Bridge to Dentistry) than for those requesting a change to a goal with higher GPA requirements, even if they meet the higher requirements.

Certificate Requirements

Bridge to Medicine Track (38-65 credits)

Prerequisites to the Track (20-26 credits)

Completion of the following courses, or equivalents, are required for the Bridge to Medicine track of the Health Careers Preparation certificate. In many cases, students will have completed some or all of these courses prior to matriculation in to the certificate program; in such cases, those courses may fulfill this requirement but are not counted as credits toward completion of the certificate. Any courses from this list taken subsequent to matriculation in to the certificate program will be counted toward the credits earned for the certificate.

CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
ENG 111	English Composition I	3
ENG 121	English Composition II	3
MAT 171	Elements of Precalculus	4
	And	
MAT 108	Trigonometry	2
	Or	
MAT 172	Precalculus	4
	Or	
	Placement in to MAT 175	
PSY 166	General Psychology	3

Certificate Requirements (38-39 credits)

To earn the Certificate in the Bridge to Medicine track, the following courses must be completed, with a grade of C or higher, by the end of the In Depth phase:

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4
CHE 232	Organic Chemistry Lecture I	4
CHE 233	Organic Chemistry Laboratory I	2
CHE 234	Organic Chemistry Lecture II	4
CHE 235	Organic Chemistry Laboratory II	2

BIO 400	Biological Chemistry	4	ENG 121	English Composition II	3
CHE 444	Biochemistry I	4	MAT 171	Elements of Precalculus	4
PHY 166	General Physics I	5	MAT 108	Trigonometry	2
PHY 168	Physics I for Scientists and Engineers	5	MAT 172	Precalculus	4
PHY 167	General Physics II	5		Or	
PHY 169	Physics II for Scientists and Engineers	5		Placement in to MAT 175	
NSS 350	Pre-Professional Seminar	1	PSY 166	General Psychology	3
		(course may be repeated for a total of 2)			
NSS 350	Pre-Professional Seminar	1			
		(course may be repeated for a total of 2)			
NSS 352	The Medical School Admissions Process	3			

NSS 350 is taken in two semesters: fall and spring.

Bridge to Physician Assistant Track (36*-68 credits)

Prerequisites to the Track (28-34 credits)

Completion of the following courses, or equivalents, are required for the Bridge to Physician Assistant track of the Health Careers Preparation certificate. In many cases, students will have completed some or all of these courses prior to matriculation in to the certificate program; in such cases, those courses may fulfill this requirement but are not counted as credits toward completion of the certificate. Any courses from this list taken subsequent to matriculation in to the certificate program will be counted toward the credits earned for the certificate.

BIO 181	Anatomy and Physiology I	4
BIO 182	Anatomy and Physiology II	4
CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
ENG 111	English Composition I	3

Certificate Requirements (33-34 credits)

To earn the Certificate in the Bridge to Physician Assistant track the following courses must be completed, with a grade of C or higher, by the end of the In Depth phase:

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4
CHE 232	Organic Chemistry Lecture I	4
CHE 233	Organic Chemistry Laboratory I	2
CHE 234	Organic Chemistry Lecture II	4
CHE 235	Organic Chemistry Laboratory II	2
BIO 400	Biological Chemistry	4
CHE 444	Biochemistry I	4
BIO 238	Genetics	4
BIO 331	Experimental Microbiology	4
NSS 350	Pre-Professional Seminar	1
		(course may be repeated for a total of 2)
NSS 350	Pre-Professional Seminar	1
		(course may be repeated for a total of 2)

*Additional credits to bring the certificate total to at least 36 must be selected from the list of Additional Eligible Courses below.

NSS 350 is taken in two semesters: fall and spring.

Bridge to Physical Therapy Track (36*-64 credits)**Prerequisites to the Track (25-31 credits)**

Completion of the following courses, or equivalents, are required for the Bridge to Physical Therapy track of the Health Careers Preparation certificate. In many cases, students will have completed some or all of these courses prior to matriculation in to the certificate program; in such cases, those courses may fulfill this requirement but are not counted as credits toward completion of the certificate. Any courses from this list taken subsequent to matriculation in to the certificate program will be counted toward the credits earned for the certificate.

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4
BIO 181	Anatomy and Physiology I	4
BIO 182	Anatomy and Physiology II	4
ENG 111	English Composition I	3
ENG 121	English Composition II	3
MAT 171	Elements of Precalculus And	4
MAT 108	Trigonometry Or	2
MAT 172	Precalculus Or Placement in to MAT 175	4
PSY 166	General Psychology	3

Certificate Requirements (23 credits)

To earn the Certificate in the Bridge to Physical Therapy track the following courses must be completed, with a grade of C or higher, by the end of the In Depth phase:

CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
PHY 166	General Physics I Or	5
PHY 168	Physics I for Scientists and Engineers	5
PHY 167	General Physics II Or	5
PHY 169	Physics II for Scientists and Engineers	5

NSS 350	Pre-Professional Seminar	1
		(course may be repeated for a total of 2)

NSS 350	Pre-Professional Seminar	1
		(course may be repeated for a total of 2)

*Additional credits to bring the certificate total to at least 36 must be selected from the list of Additional Eligible Courses below.

NSS 350 is taken in two semesters: fall and spring.

Bridge to Dental Track (36*-62 credits)**Prerequisites to the Track 20-26 credits**

Completion of the following courses, or equivalents, are required for the Bridge to Dental track of the Health Careers Preparation certificate. In many cases, students will have completed some or all of these courses prior to matriculation in to the certificate program; in such cases, those courses may fulfill this requirement but are not counted as credits toward completion of the certificate. Any courses from this list taken subsequent to matriculation in to the certificate program will be counted toward the credits earned for the certificate.

CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
ENG 111	English Composition I	3
ENG 121	English Composition II	3
MAT 171	Elements of Precalculus And	4
MAT 108	Trigonometry Or	2
MAT 172	Precalculus Or Placement in to MAT 175	4
PSY 166	General Psychology	3

Certificate Requirements (35-36 credits)

To earn the Certificate in the Bridge to Dental track the following courses must be completed, with a grade of C or higher, by the end of the In Depth phase:

BIO 166	Principles of Biology: Cells and Genes	4	those courses may fulfill this requirement but are not counted as credits toward completion of the certificate. Any courses from this list taken subsequent to matriculation in to the certificate program will be counted toward the credits earned for the certificate.		
BIO 167	Principles of Biology: Organisms	4			
CHE 232	Organic Chemistry Lecture I	4			
CHE 233	Organic Chemistry Laboratory I	2			
CHE 234	Organic Chemistry Lecture II	4			
CHE 235	Organic Chemistry Laboratory II	2			
BIO 400	Biological Chemistry Or	4	BIO 181	Anatomy and Physiology I	4
CHE 444	Biochemistry I	4	BIO 182	Anatomy and Physiology II	4
PHY 166	General Physics I Or	5	CHE 166	General Chemistry I	4
PHY 168	Physics I for Scientists and Engineers	5	CHE 167	General Chemistry Laboratory I	1.5
PHY 167	General Physics II Or	5	CHE 168	General Chemistry II	4
PHY 169	Physics II for Scientists and Engineers	5	CHE 169	General Chemistry Laboratory II	1.5
NSS 350	Pre-Professional Seminar	1 (course may be repeated for a total of 2)	ENG 111	English Composition I	3
NSS 350	Pre-Professional Seminar	1 (course may be repeated for a total of 2)	ENG 121	English Composition II	3
			MAT 171	Elements of Precalculus And	4
			MAT 108	Trigonometry Or	2
			MAT 172	Precalculus Or	4
				Placement in to MAT 175	
			MAT 175	Calculus I	4
			PHY 166	General Physics I	5
			Certificate Requirements (34-35 credits)		
			To earn the Certificate in the Bridge to Pharmacy track the following courses must be completed, with a grade of C or higher, by the end of the In Depth phase:		
			BIO 166	Principles of Biology: Cells and Genes	4
			BIO 167	Principles of Biology: Organisms	4
			BIO 331	Experimental Microbiology	4
			CHE 232	Organic Chemistry Lecture I	4
			CHE 233	Organic Chemistry Laboratory I	2
			CHE 234	Organic Chemistry Lecture II	4
			CHE 235	Organic Chemistry Laboratory II	2
			BIO 400	Biological Chemistry Or	4
			CHE 444	Biochemistry I	4
			PHY 166	General Physics I Or	5
			PHY 168	Physics I for Scientists and Engineers	5
			NSS 350	Pre-Professional Seminar	1 (course

*Additional credits to bring the certificate total to at least 36 must be selected from the list of Additional Eligible Courses below.

NSS 350 is taken in two semesters: fall and spring.

Bridge to Pharmacy Track (36*-73 credits)

Prerequisites to the Track (32-38 credits)

Completion of the following courses, or equivalents, are required for the Bridge to Pharmacy track of the Health Careers Preparation certificate. In many cases, students will have completed some or all of these courses prior to matriculation in to the certificate program; in such cases,

*Additional credits to bring the certificate total to at least 36 must be selected from the list of Additional Eligible Courses below.

NSS 350 is taken in two semesters: fall and spring.

Bridge to Pharmacy Track (36*-73 credits)

Prerequisites to the Track (32-38 credits)

Completion of the following courses, or equivalents, are required for the Bridge to Pharmacy track of the Health Careers Preparation certificate. In many cases, students will have completed some or all of these courses prior to matriculation in to the certificate program; in such cases,

		may be repeated for a total of 2)
NSS 350	Pre-Professional Seminar	1 (course may be repeated for a total of 2)

*Additional credits to bring the certificate total to at least 36 must be selected from the list of Additional Eligible Courses below.

NSS 350 is taken in two semesters: fall and spring.

Bridge to Optometry Track (39-70 credits)

Prerequisites to the Track (24-30 credits)

Completion of the following courses, or equivalents, are required for the Bridge to Optometry track of the Health Careers Preparation certificate. In many cases, students will have completed some or all of these courses prior to matriculation in to the certificate program; in such cases, those courses may fulfill this requirement but are not counted as credits toward completion of the certificate. Any courses from this list taken subsequent to matriculation in to the certificate program will be counted toward the credits earned for the certificate.

CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
ENG 111	English Composition I	3
ENG 121	English Composition II	3
MAT 171	Elements of Precalculus And	4
MAT 108	Trigonometry Or	2
MAT 172	Precalculus Or	4
	Placement in to MAT 175	
MAT 175	Calculus I	4
PSY 166	General Psychology	3

Certificate Requirements (39-40 credits)

To earn the Certificate in the Bridge to Optometry track the following courses must be completed, with a grade of C or higher, by the end of the In Depth phase:

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4
BIO 331	Experimental Microbiology	4
CHE 232	Organic Chemistry Lecture I	4
CHE 233	Organic Chemistry Laboratory I	2
CHE 234	Organic Chemistry Lecture II	4
CHE 235	Organic Chemistry Laboratory II	2
BIO 400	Biological Chemistry Or	4
CHE 444	Biochemistry I	4
PHY 166	General Physics I Or	5
PHY 168	Physics I for Scientists and Engineers	5
PHY 167	General Physics II Or	5
PHY 169	Physics II for Scientists and Engineers	5
NSS 350	Pre-Professional Seminar	1 (course may be repeated for a total of 2)
NSS 350	Pre-Professional Seminar	1 (course may be repeated for a total of 2)

NSS 350 is taken in two semesters: fall and spring.

Bridge to Veterinary Medicine Track (36*-63 credits)

Prerequisites to the Track (21-27 credits)

Completion of the following courses, or equivalents, are required for the Bridge to Veterinary Medicine track of the Health Careers Preparation certificate. In many cases, students will have completed some or all of these courses prior to matriculation in to the certificate program; in such cases,

those courses may fulfill this requirement but are not counted as credits toward completion of the certificate. Any courses from this list taken subsequent to matriculation in to the certificate program will be counted toward the credits earned for the certificate.

CHE 166	General Chemistry I	4
CHE 167	General Chemistry Laboratory I	1.5
CHE 168	General Chemistry II	4
CHE 169	General Chemistry Laboratory II	1.5
ENG 111	English Composition I	3
ENG 121	English Composition II	3
MAT 171	Elements of Precalculus And	4
MAT 108	Trigonometry	2
MAT 172	Precalculus	4
	Or	
	Placement in to MAT 175	
MAT 175	Calculus I	4

Certificate Requirements (35-36 credits)

To earn the Certificate in the Bridge to Veterinary Medicine track the following courses must be completed, with a grade of C or higher, by the end of the In Depth phase:

BIO 166	Principles of Biology: Cells and Genes	4
BIO 167	Principles of Biology: Organisms	4
CHE 232	Organic Chemistry Lecture I	4
CHE 233	Organic Chemistry Laboratory I	2
CHE 234	Organic Chemistry Lecture II	4
CHE 235	Organic Chemistry Laboratory II	2
BIO 400	Biological Chemistry	4
	Or	
CHE 444	Biochemistry I	4
PHY 166	General Physics I	5
	Or	
PHY 168	Physics I for Scientists and Engineers	5
PHY 167	General Physics II	5
	Or	
PHY 169	Physics II for Scientists and Engineers	5

NSS 350	Pre-Professional Seminar	1
	(course may be repeated for a total of 2)	

NSS 350	Pre-Professional Seminar	1
	(course may be repeated for a total of 2)	

*Additional credits to bring the certificate total to at least 36 must be selected from the list of Additional Eligible Courses below.

NSS 350 is taken in two semesters: fall and spring.

Additional Eligible Courses

Regardless of track, it is necessary to earn no fewer than 36 credits within the certificate. For any track, additional credits to satisfy the certificate, or for purposes of establishing residency at Lehman or in the certificate, may be drawn from the following list of courses, under the guidance and with the approval of a program advisor:

Select from the following list of courses:

BIO 181	Anatomy and Physiology I	4
BIO 182	Anatomy and Physiology II	4
BIO 238	Genetics	4
BIO 331	Experimental Microbiology	4
BIO 400	Biological Chemistry	4
BIO 420	Molecular Biology	4
BIO 435	Neurophysiology	3
BIO 501	Topics in Genetics	4
CHE 232	Organic Chemistry Lecture I	4
CHE 233	Organic Chemistry Laboratory I	2
CHE 234	Organic Chemistry Lecture II	4
CHE 235	Organic Chemistry Laboratory II	2
CHE 444	Biochemistry I	4
CHE 446	Biochemistry II	3
CHE 447	Biochemistry Laboratory	3
DST 311	Social Science Perspectives on Health and Disability	4
DST 336/DST 336/PHI 336	Disability, Ethics & the Body	3
ECO 167	Introduction to Microeconomics	3
ENW 307	Health and Science Writing	3
MAT 108	Trigonometry	2
MAT 128	Foundations of Data Science	3
MAT 132	Introduction to Statistics	4

MAT 155	Calculus I Laboratory	1
MAT 171	Elements of Precalculus	4
MAT 172	Precalculus	4
MAT 175	Calculus I	4
PHI 341	Medical Ethics	3
PHI 434	Neuroethics	3
PHY 166	General Physics I	5
PHY 167	General Physics II	5
PHY 168	Physics I for Scientists and Engineers	5
PHY 169	Physics II for Scientists and Engineers	5
POL 211	Public Policy	3
POL 318	The Politics of Health	3
PSY 166	General Psychology	3
PSY 217	Child Psychology	3
PSY 218	Psychology of Adolescence	3
PSY 219	Psychology of Adulthood and Aging	3
SOC 166	Fundamentals of Sociology	3

Political Science

Department Chair: Elhum Haghighat (Carman Hall, Room 358)

Department Faculty: Professors: Ira Bloom, Elhum Haghighat, Stanley A. Renshon; Associate Professor: Jeannette Graulau; Assistant Professors: Duran Fiack, Tomohisa Hattori, Joseph J. Mohorcich

The curriculum in Political Science is designed to enhance a student's liberal arts education and to develop an understanding of government and the political process in the United States and the world. Political Science is a flexible major that prepares students for careers in law, government, public service, teaching, journalism, non-profit organizations, business, and labor organizations. A graduate or professional degree is often required for professional careers in these fields.

Careers in Government: Students interested in government service or non-profit organizations should take courses in Group VI (Public Policy and Administration). Students with these career interests may pursue master's degrees in public administration (M.P.A.) or public policy (M.P.P.) in order to learn how public agencies (local, State, and Federal) and non-profit organizations operate.

Careers in Law: While no prescribed pre-law course of study is required for admission to law school, Political Science is the traditional undergraduate major that most students select. It should be supplemented by courses in English writing, critical and logical reasoning (via philosophy and mathematics courses), and economics. The abilities to read and analyze complex material carefully and critically, to form and support

independent judgments, and to communicate ideas in writing in a precise and cogent fashion are essential to success in law school. Pre-law students majoring in Political Science should take courses listed in Group V (Law and Politics) and courses in other departments, such as PHI 229, ENW 201, ECO 166, and ECO 167. Pre-law students majoring in other disciplines should consider a 18-credit minor in Law and Government (see below).

Teaching and Other Careers: The Political Science Department also prepares students for careers in business, social, and political research, elected political office at the local, State, or Federal level, journalism, and college teaching. Political Science majors interested in graduate studies in Political Science and International Affairs as well as professional degrees, such as J.D., M.P.P., and M.P.A., should consider joining the Lehman Scholars Program (LSP). The Business and Liberal Arts Program is also complementary to Political Science majors interested in working in the business world upon graduation. Students interested in secondary or elementary school teaching should consult with the Department of Early Childhood and Childhood Education and the Department of Middle and High School Education for information on programs leading to New York State teacher certification.

Internships: Internship opportunities are available to students in Federal, State, City government and international organizations. The Department offers a summer internship in Washington, D.C., that involves work with legislators and other public officials. Lehman College credit is given for approved programs. Students also may spend one semester in Albany on a paid internship organized by the New York State Legislature. Students receive credit for a full-time program during the spring semester and attend courses at the campus of the State University of New York at Albany. In addition, a New York City Internship Program is offered by all senior colleges of The City University of New York (see POL 470 and POL 471). Consult the Department for more information on any of these internships.

Political Science, B.A. (39-40 Credit Major)

The distribution of credits between 33 credits (11 courses) in Political Science and 6 or 7 credits (2 courses) in other departments is as follows:

Credits (39-40)

9 credits in three required courses for all majors:

POL 166: The American Political System.

One course in methods chosen from POL 245 or 331.

One course in political theory chosen from POL 226, 227, 228, 229, 319, 321, or 322.

POL 166	The American Political System And	3
POL 245	Political Analysis and Interpretation	3

One course in political theory chosen from:

POL 226	Political Thought I: Classical to Medieval	3
POL 227	Political Thought II: Modern	3
POL 228	Democracy and Its Critics	3
POL 229	Classical Political Economy	3
POL 319	Political Thought III: Contemporary	3
POL 321	American Political Thought	3
POL 322	Non-Western Political Thought	3

24 credits in eight elective POL courses at the 200, 300, or 400 level:

At least twelve credits at 300 or 400 level. Students may choose any combination of courses in the subfields of study covered in Political Science.

6-7 credits in two courses in other departments, selected from:

Two courses in other departments, selected from ANT 211, ECO 166, ECO 167, ENW 201, or either PHI 170 or PHI 230 (but not both).

ANT 211	Cultural Anthropology	3
ECO 166	Introduction to Macroeconomics	3
ECO 167	Introduction to Microeconomics	3
ENW 201	Writing Essentials	3
	Or	
PHI 170	Introduction to Logic	3
	Or	
PHI 230/LNG 266/PHI 230	Intermediate Logic	3

The Department waives this requirement for double majors.

Departmental Honors

Students who wish to qualify for Departmental honors are required to take:

POL 481	Honors Tutorial	3 (can be repeated once)
---------	-----------------	-----------------------------------

Political Science (15 Credit Minor)**Requirements for the Minor in Political Science****The minor in Political Science consists of:**

POL 166	The American Political System	3
POL	POL courses at the 200, 300, or 400 level	12

POL courses at the 200, 300, or 400 level: At least 6 of these 12 credits must be at the 300- or 400-level.

Environmental Policy (15-17 Credit Minor)

The field of environmental policy requires students and practitioners to understand the intersections of multiple disciplines (e.g., environmental science, biology, ecology, economics, philosophy, ethics) and how these relationships influence environmental policy discussions. The minor provides opportunities for students majoring in related disciplines such as biology, earth science, and environmental science to specialize in an area of public policy with direct relevance to their major.

Requirements for the Minor in Environmental Policy**Credits (15-17):**

ENV 210	Introduction to Environmental Science And 3 credits in either	3
POL 275	Introduction to Environmental Policy and Economics Or	3
POL 211	Public Policy	3
	Three of the Following (at least one course must be POL) 9-11 credits	
POL 359	Science, Policy, and Politics	3
ENV 326	Environmental Policy	3
POL 350	Political Demography	3
POL 366	Global Political Economy	3
POL 368	Global Environmental Politics	3
ENV 235	Conservation of the Environment	3
ENV 270	Environmental Pollution	4
POL 380	Climate Change: Science, Society, and Politics	3
POL 275	Introduction to Environmental Policy and Economics	3

Global Studies (15 Credit Minor)

The distribution of credits is as follows:

Credits (15):**6 credits in two required courses for all minors:**

POL 240	International Politics	3
POL 241	Globalization	3

9 credits in three elective POL courses selected from the following:

POL 328/MES 328/POL 328/SOC 328	Comparative and Global Perspectives on Gender and Politics	3
---------------------------------------	--	---

POL 339	Human Rights	3
POL 343	International and Regional Organizations	3
POL 344	International Law	3
POL 345	Integration of the Americas	3
POL 347	The Law of Diplomacy, Treaties, and War	3
POL 348	International Conflict and Conflict Resolutions	3
POL 3520/ANT 3520/HRP 3520/POL 3520	Special Topics in Human Rights and Peace Studies	3
POL 350	Political Demography	3
POL 364/PHI 364/POL 364	Capitalism and Its Critics	3
POL 366	Global Political Economy	3
POL 367	Political Economy of Development	3
POL 368	Global Environmental Politics	3
POL 369/PHI 369/POL 369	Global Justice	3
POL 4720	Model United Nations	3
		(maximum 6).
POL 4730/ANT 4730/HRP 4730/POL 4730	Internship in Human Rights and Peace Studies	3

Law and Government (18 Credit Minor)

The distribution of credits is as follows:

Credits (18):

9 credits in three required course for all minors:

POL 166	The American Political System	3
POL 227	Political Thought II: Modern	3
POL 302	The Judiciary	3

3 credits in one of the following courses:

POL 303	Constitutional Law: Government Structures and Powers	3
POL 304	Constitutional Law: Personal Rights and Liberties	3

6 credits in two elective courses selected from the following:

POL 301	Legislative Politics	3
POL 303	Constitutional Law: Government Structures and Powers	3
POL 304	Constitutional Law: Personal Rights and Liberties	3
POL 312	Jurisprudence	3

POL 340	Law in Action	3
POL 344	International Law	3
POL 470/POL 470/SOC 470	Seminar and Internship Program in New York Government	4
POL 471	Seminar and Internship Program in Law	4

POL 303, POL 304: At least one of POL 303 or POL 304 must be chosen.

Urban Community Development (Interdisciplinary Minor)

Director: Duran Fiack

Steering Committee: Mario Gonzalez-Corzo, David Fletcher, Dene Hurley, Juliana Maantay, Shehzad Nadeem, Joseph Rachlin, Milagros Ricourt, Robyn Spencer, Elin Waring.

This interdisciplinary program is designed to introduce students to a variety of topics and issues in urban community development. Students will be exposed to community-based local, national, and international social, political, and economic analyses, as well as to political figures, philosophies, theories, and movements. The minor is designed especially for students who wish to combine an interest in community development with majors such as African and African American Studies, Anthropology, Economics, Geography, History, Latin American and Puerto Rican Studies, Philosophy, Political Science, and Sociology.

Degree Requirements

Students will satisfy the College requirement of a minor field by taking four courses (12-15 credits), at least two of which must be at the 300 level or higher.

3 credits

AAS 226	Community Organization	3
---------	------------------------	---

3-4 credits

One fieldwork course in community service to be chosen from the list of fieldwork courses for the Urban Community Development Minor and approved by a member of the Steering Committee.

6-8 credits

Two courses to be chosen from the electives list of courses for the Urban Community Development Minor in consultation with a member of the Steering Committee (who may also approve non-listed courses).

Note: The same courses may not be used for both the major and the minor. Some of these courses have prerequisites.

Elective Courses for the Urban Community Development Minor

AAS 316	Introduction to Community	3
---------	---------------------------	---

ANT 342	Development and Planning		POL 342/AAS	African Americans in the	3
ECO 314	Anthropology of Cities	3	342/POL 342	Political System	
GEP 230	Urban Economics	3	Group II: Political Theory and Methods of Political Analysis		
	Urban Environmental Management	3	POL 226	Political Thought I: Classical to Medieval	3
GEH 240	Urban Geography	3	POL 227	Political Thought II: Modern	3
HIU 333	American Urban History	3	POL 228	Democracy and Its Critics	3
HIU 347	The Mainland Borough: The Bronx as a City in History	3	POL 245	Political Analysis and Interpretation	3
HIU 348	History of New York: City and State	3	POL 319	Political Thought III: Contemporary	3
LAC 238/LAC 238/ANT 238	Selected Studies in Societies and Cultures (Latin America)	3	POL 321	American Political Thought	3
POL 211	Public Policy	3	POL 322	Non-Western Political Thought	3
POL 305	Public Administration	3	POL 323	Marxism	3
POL 307	Political Power in America	3	POL 324	Political Sociology	3
POL 309	State and Local Politics	3	POL 325	Political Psychology	3
POL 310	Urban Politics and Government	3	POL 326/POL 326/SOC 326	Political Socialization	3
POL 313	Political Issues in New York City	3	POL 331/POL 331/SOC 301	Methods of Social Research	4
POL 314	Urban Policy	3	POL 346	Advanced Methods of Social Research	3
POL 326/POL 326/SOC 326	Political Socialization	3	POL 350	Political Demography	3
PSY 338	Community Psychology	3	Group III: Comparative Politics and Area Studies		
SOC 234	Urban Sociology	3	POL 220/POL 220/RUS 220	Russia Today	3
SOC 334	Urban Sociology in Global Perspective	3	POL 267	Gender and Politics	3
Fieldwork Courses for the Urban Community Development Minor			POL 268	Comparative Politics	3
AAS 470	Fieldwork in the African American Community	3	POL 327/POL 327/ECO 327	Comparative Labor Movements	3
ESC 475	Community Change Model: Creating New Communities	3	POL 328/MES 328/POL 328/SOC 328	Comparative and Global Perspectives on Gender and Politics	3
SOC 470/POL 470/SOC 470	Seminar and Internship Program in New York City Government	4	POL 329	Political Systems in Europe	3
Courses in Political Science Grouped by Area of Study			POL 330	The Russian Political System	3
Group I: American Politics			POL 332/LAC 332/POL 332	Political Systems in Latin America	3
POL 166	The American Political System	3	POL 333	Political Systems in Africa	3
POL 300	The American Presidency	3	POL 334	Political Systems in the Middle East	3
POL 301	Legislative Politics	3	POL 335	Major Asian Political Systems	3
POL 302	The Judiciary	3	POL 336/LAC 336/POL 336	Political Systems of Central America and the Caribbean	3
POL 306	Political Parties, Campaigns, and Elections	3	POL 338	Nationalism and Challenges to National Unity	3
POL 307	Political Power in America	3	POL 341/POL 341/WST 341	Women and Politics	3
POL 308	American Foreign Policy	3	POL 350	Political Demography	3
POL 309	State and Local Politics	3	Group IV: International Politics		
POL 316	Organizing an Election Campaign	3	POL 230	Immigration and Citizenship	3
POL 337	Public Opinion and Polling	3			

POL 240	International Politics	3	POL 317	The Politics of American Public Education	3
POL 241	Globalization	3			
POL 266	Politics and Culture	3	POL 318	The Politics of Health	3
POL 339	Human Rights	3	POL 470/POL 470/SOC 470	Seminar and Internship Program in New York Government	4
POL 343	International and Regional Organizations	3			
POL 345	Integration of the Americas	3	Special and Honors Work in Political Science		
POL 348	International Conflict and Conflict Resolutions	3	POL 265	Topics in Political Science	3
POL 3520/ANT 3520/HRP 3520/POL 3520	Special Topics in Human Rights and Peace Studies	3	POL 365	Advanced Topics in Political Science	3
POL 366	Global Political Economy	3	POL 389	Political Research Laboratory	3
POL 367	Political Economy of Development	3	POL 451	Selected Problems in Political Science	3
POL 368	Global Environmental Politics	3	POL 478	Political Science Senior Research Seminar	3
POL 369/PHI 369/POL 369	Global Justice	3	POL 481	Honors Tutorial	3 (can be repeated once)
POL 4720	Model United Nations	3	Professional Communications		
		(maximum 6).	Professional Communications Minor (12 credits)		
POL 4730/ANT 4730/HRP 4730/POL 4730	Internship in Human Rights and Peace Studies	3	The Interdisciplinary Minor in Professional Communications provides students with the opportunity to develop high-level skills in multimedia communications. These professional communications skills are increasingly and urgently required by businesses, public sector and non-governmental organizations, and in the fields of healthcare and science. A range of relevant courses enables students to hone their skills in professional writing, using both traditional formats and new media platforms, and to prepare and deliver in-person and Web-based presentations. The 12-credit Minor is designed for students majoring in various departments within the Schools of Arts and Humanities, Social and Natural Sciences, and Nursing and Health Sciences. These majors include but are not limited to English, Journalism, Film and TV Studies, Media Communications Studies, Computer Graphics and Imaging, Business Administration, Health Services Education and Promotion, Health Services Administration, and Nursing. Students from any department seeking to burnish their professional writing and presentation skills for the twenty-first-century marketplace will find the Minor in Professional Communications an invaluable complement to their chosen major.		
Group V: Law and Politics					
POL 217	Criminal Justice	3			
POL 299	Law, Computers, and the Internet: The Politics of Information Technology	3			
POL 303	Constitutional Law: Government Structures and Powers	3			
POL 304	Constitutional Law: Personal Rights and Liberties	3			
POL 311	Freedom of Speech	3			
POL 312	Jurisprudence	3			
POL 340	Law in Action	3			
POL 344	International Law	3			
POL 347	The Law of Diplomacy, Treaties, and War	3			
POL 471	Seminar and Internship Program in Law	4			
Group VI: Public Policy and Administration			Degree Requirements		
POL 211	Public Policy	3	Undergraduate students may declare the Minor in Professional Communications upon successful completion of ENG 111/113 and ENG 121/123. Students satisfy the requirements for the 12-credit Professional Communications Minor by		
POL 305	Public Administration	3			
POL 310	Urban Politics and Government	3			
POL 313	Political Issues in New York City	3			
POL 314	Urban Policy	3			
POL 315	The Politics of American Poverty	3			

taking four courses, three or four of which are at the 300-level.

Writing Skills Core - choose one course (3 credits):

ENW 201	Writing Essentials	3
ENW 217	Editing Essentials	3
ENW 315	Editing for Style and Flow	3

Professional Writing Elective - choose one course (3 credits) from the following list:

ENW 300 (Business Writing), ENW 304 (Writing for Prestigious Awards and Graduate Schools), ENW 305 (Principles of Professional Writing), ENW 306 (Collaboration and the Writing Process), ENW 307 (Health and Science Writing), ENW 313 (Literary Craft for Professional Writers), ENW 314 (Evidence-Based Writing), ENW 315 (Editing for Style and Flow)*, ENW 316 (Storytelling for Professional Writers)*, ENW 318 (Writing for New Media), ENW 319 (The Publishing Landscape), ENW 322 (Design for Writers), ENW 323 (Biography Writing), ENW 324 (The Contemporary Essay), ENW 325 (Arts Criticism: Writing About Popular Culture), ENW 326 (Memoir Writing), ENW 332 (Feature Writing), ENW 333 (Marketing and PR Writing), ENW 334 (Grant and Proposal Writing), ENW 335 (Technical Writing), ENW 345 (Writing and Social Issues), ENW 365 (Special Topics in Professional Writing), ENW 462 (Seminar in Professional Writing)

*ENW 315 may only be taken once as part of the Professional Communications Minor.

Multimedia Communication Courses - choose two courses (6 credits):

ENW 318	Writing for New Media	3
ENW 320	Professional Presentations	3

For more information, please write
matt.caprioli@lehman.cuny.edu

Psychology

Chair: Humberto Lizardi (Gillet Hall, Room 101-D)

Department Faculty: Professors: Alan Kluger, Vincent Prohaska, Kevin Sailor; Associate Professors Humberto Lizardi, David Manier, Anne Reid, Suzanne Yates; Assistant Professors: Mia Budescu, Martin Downing, Elizabeth Guerrero-Berroa, Keith Happaney, Anna Luerksen, Ruby S.C. Phillips; Lecturer: Sandra Campeanu.

The undergraduate program in Psychology is intended to serve three principal objectives: (1) to contribute to the liberal education of all students by providing an understanding of psychology as a science and as a profession; (2) to provide an understanding of psychological principles and techniques for those students interested in work in other behavioral and social sciences and in professional fields such as education,

social work, and medicine; and (3) to establish a sound foundation for those planning to pursue graduate studies in psychology that can lead to careers in college teaching, scientific research, clinical psychology, and school psychology or to professional work in industry, government, and social agencies.

Psychology, B.A. (35-45 Credit Major)

Students are required to consult with Department advisers for guidance and approval of course selection. Students planning to pursue graduate study in psychology and related fields should consult with Department faculty. The Department encourages students to participate in faculty research programs.

Credits (35-45)

The required courses and credits are distributed as follows:

Required Courses (14-18 credits):

PSY 166	General Psychology	3
PSY 226	Statistical Methods in Psychology	4
PSY 305	Experimental Psychology I	4
PSY 348	History of Psychology	3

*The pre-requisite for PSY 226 is MAT 132 (4 credits), or MAT 172 (4 credits) or MAT 174 (4 credits) or MAT 175 (4 credits), any of which can be used to fulfill General Education requirements. Students who complete the pre-requisite before declaring the major may complete the major in less than 42 credits. MAT 135 cannot be used to satisfy the pre-requisite for PSY 226.

Distribution Block 1 (6 credits)

Students must complete TWO courses, drawn from different options:

Option 1:

PSY 217	Child Psychology	3
PSY 218	Psychology of Adolescence	3
PSY 219	Psychology of Adulthood and Aging	3

Option 2:

PSY 234	Abnormal Psychology	3
PSY 255	Theories of Personality	3

Option 3:

PSY 240	Industrial/Organizational Psychology	3
PSY 260	Social Psychology	3

Distribution Block 2 (6 credits)

Students must complete TWO courses, drawn from different options:

Option 1:

PSY 310	Psychology of Learning	3
PSY 245	Psychological Testing and Assessment	3

Option 2:

PSY 314	Cognitive Psychology	3
PSY 317	Psychology of Sensation and Perception	3

Option 3:

PSY 316	Physiological Psychology	3
PSY 366	Clinical Neuropsychology	3

Psychology Free Electives (9 credits)

Students must complete at least THREE Psychology electives which may include any 200-, 300-, or 400-level Psychology course not completed to satisfy a required or distribution area previously listed. This area may include PSY 200 which was formerly PSY 165. PSY 485 may be used once as a Psychology Free Elective. PSY 495 cannot be used as a Psychology Free Elective.

Departmental Honors (3-6 credits)

Students who wish to qualify for Departmental honors are required to complete:

PSY 485	Independent Study in Psychology	3
		(maximum 6; only 3 may be applied to requirements of the major)
PSY 495	Honors Research in Psychology	3

PSY 485: May be used to fulfill the requirements of the major as a Psychology Free Elective.

Careers in Mental Health

Those students who are interested in preparing for careers in mental health professions, such as clinical and community psychology, psychiatry, social work, guidance, and rehabilitation counseling, should consult with Department faculty.

Women's Studies Option

See the description of this program contained later in this Bulletin.

Primate Behavior and Evolution

See the description of this track within the Interdepartmental Concentration in Anthropology (p. 73) contained earlier in this Bulletin.

Psychology Minor

The minor consists of four courses, of which at least two must be at the 300 level or above.

Note that PSY 166, a prerequisite to all courses in the minor, cannot be counted toward the minor.

Reasoning and Exposition**Reasoning and Exposition (Interdisciplinary Minor)**

Coordinator: Rosalind Carey

Steering Committee: TBA

The Interdisciplinary Minor in Reasoning and Exposition provides students with courses that develop skills of critical thinking, quantitative literacy, and persuasive communication. While these are outcomes for many, if not most liberal arts and sciences courses, this minor allows for their concentrated and sustained development. Students completing this minor will develop capacities for thought, understanding and expression essential for graduate research and professional programs.

Degree Requirements (21 Credits):**Students satisfy the requirements by taking the following six courses:**

PHI 169/PHI 229/PHI 169	Critical Reasoning	3
PHI 170	Introduction to Logic	3
ENW 201	Writing Essentials	3
PHI 230/LNG 266/PHI 230	Intermediate Logic	3
SOC 348	Reasoning with Data	3
PHI 4010	Critical Thinking in Practice	4

Social Work

Chair: Carl Mazza (Carman Hall, Room B18)

Department Faculty: Professors: Joy Greenberg, Jessica Kahn, Patricia Kolb, Carl Mazza; Associate Professors: Justine McGovern, Nicole Saint-Louis, Evan Senreich, Mohan Vinjamuri, Bryan Warde, Brenda Williams-Gray; Assistant Professors: Jermaine Monk, Amanda Sisselman, Maurice Vann; Lecturers: Jonathan Alex, Crystal George-Moses, Manuel Munoz, Barbara Zerzan; Instructor: Joseph Quinones

The undergraduate program in Social Work, which leads to a Bachelor of Arts degree with a Major in Social Work, prepares students for entry-level, generalist social work practice in urban social service agencies and organizations. The program fulfills the requirements of the New York State Education Department and is fully accredited by the Council

on Social Work Education. Social work courses required for the Major are offered in both day and evening sections. Some courses may also be available on the weekend.

All Social Work majors must complete the 55 credits required for the major. Social Work cannot be taken as a minor. No credit for life experience will be given for any courses required for the Social Work Major.

The program in Social Work builds upon a liberal arts base and integrates knowledge from required study areas with the professional social work curriculum, specifically as it applies to an understanding of human behavior, human diversity, political and social systems, research-based practice, and the helping process. Senior students in the program complete a two-semester field placement (insert link) in which they spend two days a week in one of many community agencies that provide services to children, adults, families, and communities. Graduates of the program will have mastered the competencies of the profession and gained the knowledge, values, and skills essential for ethical, competent, and effective practice with diverse individuals, groups, communities, and organizations in the urban environment. Students will be prepared for beginning generalist social work practice in fields such as child and family welfare, gerontology, substance abuse, health, mental health, developmental disabilities, immigration, and homelessness.

Since the program is accredited, B.A. social work graduates interested in pursuing an M.S.W. degree may apply for *advanced standing status* in a graduate program in social work.

Career Preparation for Social Work Majors : The program in Social Work builds upon a liberal arts base and integrates knowledge from required study areas with the professional curriculum, particularly as it applies to an understanding of human behavior, human diversity, political and social systems, and the helping process. Senior students in the program complete a two-semester field placement in which they spend two days a week in one of many community agencies that provide services to children, adults, and families. Graduates of the program will have gained the knowledge, values, and skills of the core competencies of the social work profession essential for ethical, competent, and effective practice with diverse individuals, families, groups, communities, and organizations in the urban environment. Graduates will be prepared for beginning generalist social work practice in such fields as child and family welfare, substance abuse, health, mental health, developmental disabilities, immigration, gerontology, income maintenance, and homelessness. The program does not grant social work course credit for life experience or previous work experience; all Social Work majors must complete the 55 credits in the basic program.

Admission to the Program

Applications to the Undergraduate Social Work Program are available in Carman Hall, Room B-18. Applications must be submitted to the Undergraduate Social Work Program, either by mail or in person, to the Undergraduate Social Work Coordinator, located in Carman Hall, Room B-18. This application is separate from the application to Lehman College.

Students' applications for admission to the Social Work program will be considered based on the completion of the following requirements, or completed during the semester in which they are submitting their application:

- Minimum of 54 college credits (prior to the beginning of the program).
- Introduction to Social Work and Social Welfare (SWK 237)
- Foundations of Sociology (SOC 166)
- Minimum cumulative index of 2.7. Note: A minimum cumulative index of 2.9 is recommended. Because admission to the program is competitive, achievement of the minimum or recommended GPA does not guarantee acceptance.

Application forms are available in the Social Work Department office, Carman Hall, Room B18 or may be downloaded. All students are encouraged to consult the Pre- and Corequisite Guide when planning their program. To discuss eligibility for admission and to plan your program, contact Catherine Cassidy, Undergraduate Social Work Program Coordinator, in Carman Hall, Room B-18, 718-960-6782.

The following information applies to Transfer students:

- Students must be accepted to Lehman College before submitting their application to the Social Work Program.
- The above requirements may be completed at Lehman College, or the equivalent courses may be completed at other colleges previously attended, if the credits are transferable.
- All transcripts from colleges previously attended must be included with the social work application; student copies of transcripts are acceptable for this purpose.
- Transfer students with a cumulative index lower than 2.7 may apply to the Social Work Program after completing 12 credits at Lehman College and achieving a 2.7 cumulative index.

Courses in Social Work

Note: Admission into the Social Work program requires completion of 48 college credits, submission of an application to the program, completion of SWK 237 and SOC 166, and achieving a minimum cumulative college index of 2.7. A minimum cumulative index of 2.9 is recommended.

Program Retention Policies

In order to remain in the program, students are required to demonstrate professional behavior consistent with the Code of Ethics of the National Association of Social Workers.

A minimum grade of "C" is required to progress in the following courses:

- from Human Behavior and the Social Environment I (SWK 305) to Human Behavior and the Social Environment II (SWK 306)
- from Social Work Practice I (SWK 311) to Social Work Practice II (SWK 312)
- from both SWK 306 and SWK 312 to Fieldwork Seminar I (SWK 440) and Fieldwork I (SWK 470)
- from Fieldwork Seminar I (SWK 440) and Fieldwork I (SWK 470) to Fieldwork Seminar II (SWK 441) and Fieldwork II (SWK 471).

Students with a grade of "Incomplete" in any of these courses are not eligible to begin the continuation courses or any course for which that course is a co-requisite.

A student who does not achieve a minimum grade of at least "C" in any of the following courses: SWK 305, SWK 306, SWK 311, SWK 312, SWK 440, and SWK 470, will be dropped from the Program. Students who are dropped from the Program may reapply when they have a GPA of 2.7. If readmitted, they may repeat any of these courses only once, in accordance with Lehman College policy.

Social Work, B.A.

Students intending to major in Social Work must choose one of the following two options:

Option 1: Social Work, B.A. (55 Credit Major)

The following credits and courses are required of all Social Work majors:

36 credits in social work:

SWK 237	Introduction to Social Work and Social Welfare	3
SWK 239	Social Welfare Institutions	3
SWK 305	Human Behavior and the Social Environment I	3
SWK 306	Human Behavior and the Social Environment II	3
SWK 311	Social Work Practice I	3
SWK 312	Social Work Practice II	3

SWK 440	Fieldwork Seminar I	2
SWK 441	Fieldwork Seminar II	2
SWK 443/SWK 443	Social Welfare Policy	3
SWK 446	Social Work Research	3
SWK 470	Fieldwork I	4
SWK 471	Fieldwork II	4

SWK 470, SWK 312: Majors are expected to register for SWK 470 for the Fall semester after completing SWK 312.

Prior to applying for Fieldwork I (SWK 470), all students must complete the New York State mandated 2-hour "Training in Child Abuse Identification and Reporting" online at <http://www.nysmandatedreporter.org>. The training and a Certificate of Completion are provided at no cost. A copy of the Certificate of Completion must be submitted together with the application for Fieldwork (SWK 470). Students who have taken this training previously are not required to repeat it if they provide the Social Work Department with a copy of their Certificate of Completion.

One elective:

One 3-credit 300-level SWK elective course above SWK 312, OR one 3-credit 300-level SOC elective course above SOC 303.

16-20 credits in other disciplines:

SOC 166	Fundamentals of Sociology	3
PSY 166	General Psychology	3
POL 166	The American Political System	3

ENW 300-level course - 3 credits

BIO 181	Anatomy and Physiology I	4
	Or	
BIO 182	Anatomy and Physiology II	4
	Or	
BIO 183	Human Biology	4
	Or	
BIO 166	Principles of Biology: Cells and Genes	4
	And	
BIO 167	Principles of Biology: Organisms	4

Social Work may not be selected as a minor.

According to New York State Education Department regulations, students receiving a B.A. degree must complete 90 credits in liberal arts courses. SWK 311, SWK 312, SWK 440, SWK 470, SWK 441 and SWK 471 do not qualify as liberal arts courses.

Courses

Students should note that the following year-long sequences begin only in the Fall semester:

- Human Behavior and the Social Environment I and II (SWK 305 and SWK 306)
- Social Work Practice I and II (SWK 311 and SWK 312)
- Fieldwork Seminar I and II (SWK 440 and SWK 441)
- Fieldwork I and II (SWK 470 and SWK 471)

Option 2: Social Work, B.A. - CASAC-T (58 Credit Major)

By agreement of the Lehman College Social Work Department with the New York State Office of Alcoholism and Substance Abuse Services (OASAS), Lehman students who fulfill the following will have completed all educational requirements for the CASAC-T (Credentialed Alcoholism and Substance Abuse Counselor-Trainee) and will be issued the OASAS CASAC 350-Hour Standardized Certificate of Completion by the Lehman College Social Work Department:

- Successful completion of all requirements for the Social Work Major – Option 1 (55 credits)
- Successful completion of the following two social work courses:

SWK 251: Substance Abuse and Urban Society (3 hours, 3 credits)

SWK 351: Theoretical Perspectives of Substance Abuse (3 hours, 3 credits)

NOTE: SWK 351 can fulfill the 300-level elective requirement in the Social Work Major – Option 1.

Additional requirements for the CASAC will include the following:

- Work experience in an OASAS-approved substance abuse agency; Successful completion of the N.Y. State CASAC credentialing examination; Submission of an application and required fee to OASAS Credentialing Unit staff.
- Arrangements to meet those requirements will be made individually by the student with the N.Y. State Office of Alcoholism and Substance Abuse Services (OASAS).

Field Placement Agencies

Senior students in the Social Work program complete a two-semester field placement in which they spend two days a week in one of the many community agencies that provide services to children, adults, and families. Fieldwork must be completed at the assigned agency during regular working hours; evening and weekend placements are rarely available. The following community service agencies are among those that provide fieldwork placements:

Bay Park Center for Nursing and Rehabilitation

Bellevue Hospital

Bronx Addiction Treatment Center

Bronx Lebanon Hospital

Bronx State Psychiatric Center

Catholic Guardian Society and Home Bureau

Citizens Advice Bureau

Community Health Action of Staten Island

Court Appointed Special Advocates (CASA)

Federation Employment and Guidance Services (FECS)

Fordham Tremont Mental Health

Hebrew Hospital Home

Henry Street Settlement House

Hispanic AIDS Forum

Institute for the Puerto Rican/Hispanic Elderly

Jewish Board of Family and Children's Services

New York City Department of Education

Orange County Department of Social Services

Part of the Solution (POTS)

Puerto Rican Family Institute

Queens Community House

Riverdale Mental Health Center

Sanctuary for Families

The Salvation Army

Urban Justice Center

Vassar Brothers Hospital

Veterans Affairs Medical Center

Westchester Family Services

YAI/National Institute for People with Disabilities

YWCA

Sociology

Chair: Christopher Bonastia (Carman Hall, Room B62)

Department Faculty: Professors: Christopher Bonastia, Madeline Moran, Elin Waring, Esther Wilder; Associate Professors: Kofi Benefo, Susan Dumais, Susan Markens, Shehzad Nadeem, Naomi Spence; Assistant Professors: Brittany Fox-Williams, Jennifer Laird, Devrim Yavuz; Lecturers: Thomas Conroy, Dana Fenton

The course of study in the Department of Sociology provides students with the opportunity to gain basic knowledge in the sociological study of human behavior as part of their general liberal arts training, leading to the B.A. degree. The major in Sociology is available in day, evening, and weekend classes. A list of courses is contained within this chapter of the Bulletin.

Career Preparation for Sociology Majors: The program in Sociology is designed to (1) meet the academic and preprofessional needs of potential sociologists and teachers; (2) provide training in research methods, data analysis, and computer applications for those interested in pursuing a career in social research; and (3) begin to equip students for virtually any career (e.g., business, government, law, healthcare, etc.), insofar as such a career involves group settings. For students who are interested in a variety of positions calling for a knowledge of data collection and analysis, the following sequence is of importance: SOC 301 (Methods of Social Research), SOC 345 (Statistics for Social Scientists), SOC 303 (Advanced Methods of Social Research), SOC 402 (Methods of Data Collection and Analysis) and SOC 481 (Advanced Tutorial in Sociology).

Students interested in early childhood or elementary education should consult the Sociology Department adviser for the appropriate course selection in the major. The Department of Sociology, in cooperation with the Department of Middle and High School Education, also offers students the opportunity to prepare for teaching social studies at the secondary level. Students interested in obtaining NYS Teacher Certification should contact either that Department (Carman Hall, Room B29-A) or the Office of the Dean of Education (Carman Hall, Room B-33, 718-960-4972) for information on the most current approved program.

Sociology, B.A. (35-41 Credit Major)

The required courses and credits are distributed as follows:

Pre-requisite* (3 credits):

SOC 166 or any 200-level SOC course is a prerequisite for all 300- and 400-level courses, unless otherwise stated in the course description. The prerequisite will count as an elective course in the major.

CORE COURSES (20 credits)

All students are required to complete the following courses:

SOC 300	The Sociological Imagination	4
SOC 301/SOC 301	Methods of Social Research	4
SOC 302	Sociological Theory	4
SOC 303	Advanced Methods of Social Research	4
SOC 345	Quantitative Analysis of Sociological Data	4

NOTES:

Students registering for SOC 300 and SOC 301 must have a Sociology Grade Point Average of C (2.0) or better.

Students registering for SOC 302 and all 400 level courses must have completed SOC 300 with a grade of C- (1.7) or

better.

Students registering for SOC 303, SOC 345, and all 400 level courses must have completed SOC 301 with a grade of C- (1.7) or better.

COURSES IN STUDENT'S CONCENTRATION (18 credits)

Each student is required to complete a concentration in one of three separate tracks. At least 9 of these credits must be at the 300-400 level; the remaining 9 credits may include any from the list of Sociology Courses in the Bulletin except for the Core Courses listed above. The tracks, detailed below, are (1) General Sociology, (2) Demography and Population Health, and (3) Education, Social Inequality and Urban Studies.

CONCENTRATIONS IN SOCIOLOGY

CONCENTRATION IN GENERAL SOCIOLOGY (18 credits)

Students are required to take at least 18 additional credits in SOC courses chosen from the list of Sociology Courses in the Bulletin. At least 9 credits must be in SOC courses at the 300- or 400-level.

CONCENTRATION IN DEMOGRAPHY AND POPULATION HEALTH (18 Credits)

Required Courses (18 credits)

18 Sociology credits, at least 9 credits of which must be chosen from the list below:

SOC 319	Population and Society	3
SOC 320	Immigration and Adaptation	3
SOC 339	American Demography	4
SOC 305	Sociology of Health Care	3

Note: MAT 104 or higher is strongly recommended.

CONCENTRATION IN EDUCATION, SOCIAL INEQUALITY AND URBAN STUDIES (18 Credits)

Required Courses (18 credits)

18 Sociology credits, at least 9 credits of which must be chosen from the list below:

SOC 309	Social Inequality	3
SOC 334	Urban Sociology in Global Perspective	3
SOC 336	Education and Inequality	3
SOC 335	Global and Cross-Cultural Perspectives on Education and Society.	3

DEPARTMENTAL HONORS

Students who wish to qualify for Departmental Honors are required to complete one 400 level sociology course with a grade of A or A- and receive a positive recommendation from the Department.

WOMEN'S STUDIES OPTION

See the description of the program (p. 198) contained later in the Bulletin.

Sociology BA Prior to Spring 2021

Sociology BA Prior to Spring 2020

Sociology Minor (15 credits)**REQUIREMENTS FOR THE MINOR IN SOCIOLOGY**

The Minor in Sociology consists of five courses totaling at least 15 credits. At least 9 credits must be at the 300-level or higher.

Sociology Minor Prior to Fall 2020

Areas of Study within Sociology**The General Area of Sociology**

SOC 166	Fundamentals of Sociology	3
---------	---------------------------	---

Substantive Areas in Sociology

SOC 222	The Women's Movement in the United States—Eighteenth Century to the Present	3
SOC 225	Women and Religion	3
SOC 227	Sociology of the Family	3
SOC 228	Sociological Perspectives on Gender and Society	3
SOC 229	Sociology of Leisure	3
SOC 230	Criminology	3
SOC 231	Social Problems	3
SOC 233	Youth in Modern Society	3
SOC 234	Urban Sociology	3
SOC 235	Education and Society	3
SOC 236	Mind, Self, and Society	3
SOC 237/WST	Ethnic Stratification	3
237/SOC 227		
SOC 239	Sociology of Culture	3
SOC 240/NUR	Death, Dying, and Bereavement	3
240/SOC 240		
SOC 242	Anti-Semitism from Early Christianity to Hitler	3
SOC 243	The Aged in Modern Society	3
SOC 255	Selected Topics in Social Policy	3
SOC 302	Sociological Theory	4
SOC 303	Advanced Methods of Social Research	4
SOC 304	Collective Behavior	3
SOC 307	Mass Communication and Public Opinion	3
SOC 308	Modern Organizations	3
SOC 309	Social Inequality	3
SOC 310	Knowledge, Science, and	3

SOC 322/SOC 322/WST 322	Society Sociology of Gender and Reproduction	3
SOC 324	Political Sociology	3
SOC 326/POL 326/SOC 326	Political Socialization	3
SOC 327	Sociology of American Policy Making	3
SOC 332	Religion and Society	3
SOC 334	Urban Sociology in Global Perspective	3
SOC 338/AAS 338/PHI 338/SOC 338	Race and Ethnicity in Society	3
SOC 339	American Demography	4
SOC 354/CLT 354/PHI 354/SOC 354	Philosophy of the Social Sciences	3

Comparative Studies in Sociology

SOC 245	Social Processes of Global Interdependencies	3
SOC 250/ANT 250/IAS 250/SOC 250	Racial and Ethnic Communities in the United States	3
SOC 252	Religious Groups	3
SOC 319	Population and Society	3

Research Methods and Theory

SOC 301/SOC 301	Methods of Social Research	4
SOC 351	Issues and Problems in Sociological Theory	3

Seminars, Tutorials, and the Internship In Sociology

SOC 251	Special Studies in Sociology	3
SOC 281	Tutorial in Sociology	1-3
SOC 450	Seminar in Selected Problems of Sociology	3
SOC 470/POL 470/SOC 470	Seminar and Internship Program in New York City Government	4
SOC 481	Advanced Tutorial in Sociology	3 (may be repeated for a maximum of 6)

Speech-Language-Hearing Sciences

Chair: Peggy Conner (Speech Bldg., Room 226)

Deputy Chair: Lynn Rosenberg (Speech Bldg., Room 222)

Undergraduate Academic Adviser: Mary Boylan (Speech Bldg., Room 221)

Department Faculty: Professors: Mira Goral; Associate Professors: Alison Behrman, Stephen A. Cavallo, Peggy Conner, Liat Seiger-Gardner, Cheryl Smith Gabig; Assistant Professor: Talita Fortunato-Tavares; Doctoral Lecturer: Diana Almodovar; Lecturers: Mary Boylan, Christine Neumayer, Lynn Rosenberg; Director of Clinical Education and Clinical Services: Leslie Grubler

The Department of Speech-Language-Hearing Sciences offers students preprofessional coursework in typical and atypical communication processes within the context of a liberal arts education. The B.A. program prepares students for graduate study in Speech-Language Pathology or Audiology.

Speech Pathology and Audiology, B.A. (47.5-Credit Major)

All applicants to the Major must first apply for admission to the College. After being admitted to the College, students apply to the Department of Speech-Language-Hearing Sciences to declare a Major in Speech Pathology and Audiology. Students must complete four 200 Level courses: SPV (LNG) 245; SPV (LNG 160) 246; SPV 228; and SPV (LNG) 247) and maintain a minimum cumulative index of 2.7 (B-) in these courses to remain in the major and to advance to 300 level courses, by permission only. Students who do not maintain a cumulative GPA of 2.7 in these first four 200 level courses may use them as a Minor in Speech Pathology and Audiology.

The required credits are distributed as follows:

SPV 228	Introduction to Audiology	3
SPV 245/LNG 245	Articulatory Phonetics	3
SPV 246/LNG 246/SPV 246	Introduction to Linguistics	3
SPV 247/LNG 247	Anatomy and Physiology of the Speech Mechanism	3
SPV 312/LNG 312/SPV 312	Bilingualism	3
SPV 321	Language Acquisition	3
SPV 326	Speech Pathology 1: Functional Disorders	3
SPV 327	Speech Pathology: Organic Disorders	3
SPV 349	Speech and Hearing Sciences	3
SPV 430	Introduction to Clinical Methods and Supervised Observation	3

Biological Science requirement:

BIO 183	Human Biology	4
	Or	
BIO 166	Principles of Biology: Cells and Genes	4

Social Science requirement:

PSY 166	General Psychology	3
	Or	
SOC 166	Fundamentals of Sociology	3

Natural Science requirement:

PHY 140	The Physics of Sound	3.5
---------	----------------------	-----

Statistics requirement:

MAT 132	Introduction to Statistics	4
---------	----------------------------	---

Writing requirement:

ENW 307	Health and Science Writing	3
---------	----------------------------	---

Early Admission into Graduate Study in Speech-Language Pathology

This pathway provides qualified students with an opportunity to begin their graduate studies in Speech-Language Pathology during their senior year while simultaneously completing their undergraduate B.A. degree. Students accepted into this early admission pathway in their junior year will take five graduate classes (15 credits) during their senior year, as part of their free electives, that will be counted towards both the B.A. and M.A. degrees. Undergraduate tuition fees and financial aid apply to those five graduate classes. The requirements for the undergraduate major in Speech Pathology and Audiology are the same whether or not students apply for the combined degree program. The requirements for the M.A. degree in Speech-Language Pathology are the same whether students enter the graduate program through the early admission pathway or first complete a B.A. before applying to the M.A. program.

Requirements for consideration for Early Admission:

Completion of the following non-major courses:

- Statistics: MAT 132: Introduction to Statistics
- Social Sciences: PSY 166: General Psychology or SOC 166: Fundamentals of Sociology
- Biological Sciences: BIO 166: Principles of Biology or BIO 183: Human Biology
- Physical Sciences: PHY 140: The Physics of Sound

Completion of the following major courses in Speech Pathology and Audiology:

- SPV 245 Articulatory Phonetics
- SPV 247 Anatomy and Physiology of the Speech Mechanism
- SPV 249 Speech & Hearing Science
- SPV 321 Language Acquisition

- SPV 326 Speech Pathology I or SPV 327 Speech Pathology II, and
- SPV 328 Introduction to Audiology

Additional Requirements:

- Minimum overall GPA of 3.5
- Minimum GPA of 3.75 in courses in the major of Speech Pathology and Audiology
- Submission of Graduate Record Examination (GRE) scores taken with the last five years.
- Approval from the Speech Pathology and Audiology undergraduate academic advisor and undergraduate program director
- Letter of recommendation from a Speech Pathology and Audiology faculty member from one of the six prerequisite courses
- Minimum of one semester volunteer activity in the Department of Speech-Language-Hearing Sciences, for example volunteering in the Speech and Hearing Center, serving as a student representative on a committee, or participating in faculty research.
- Personal statement

Upon review of all submitted applications for the early admission pathway, eligible applicants will be invited to meet with faculty for an interview. Final decisions regarding admission will be made following the interview.

English Language Policy:

A satisfactory command of the English language is necessary for student success in academic and clinical coursework in the graduate program in Speech-Language Pathology. Proficiency in spoken and written English is required for admission to the graduate program for all students. During the admissions interview, students must demonstrate English oral skills that are adequate for student success in graduate academic coursework and clinical practica.

In addition, applicants to the Lehman College graduate program in Speech-language Pathology who are international students (except for nationals of English-speaking countries) must demonstrate proficiency of English through one of the following:

- A passing score on the International Test of English as a Foreign Language (TOEFL)
- Completion of an undergraduate or graduate degree from an accredited college or university where English is the primary language of instruction

Application Due Date:

Students interested in applying to the Early Admission Pathway must submit their application approximately four weeks prior to the end of the first semester of their junior year.

For the current application due date, see the Department of Speech-Language-Hearing Sciences Undergraduate Program website.

For additional information please contact the Undergraduate Academic Advisor at
UGSpeech.advisement@lehman.cuny.edu

Speech Pathology and Audiology BA Prior to Spring 2021

Speech Pathology and Audiology BA Prior to Spring 2019

Post-Baccalaureate Certificate in Speech-Language Pathology

This certificate provides the necessary prerequisite courses for students who have earned a bachelor's degree in another field and wish to apply to graduate school in Speech-Language Pathology. The certificate consists of six courses of three-credits each that are commonly required by graduate programs.

Admissions:

The admission requirement for the certificate program is an earned bachelor's degree with a major other than communication sciences and disorders (or synonymously, speech-language pathology and audiology). Students who do not hold a bachelor's degree from a college where the language of instruction is English must earn a TOEFL (Test of English as a Foreign Language) score of at least 500 for admission.

Certificate Requirements:

Completion of the following courses are required in the order listed below.

SPV 228	Introduction to Audiology	3
SPV 245/LNG 245	Articulatory Phonetics	3
SPV 247/LNG 247	Anatomy and Physiology of the Speech Mechanism	3
SPV 321	Language Acquisition	3
SPV 349	Speech and Hearing Sciences	3
SPV 327	Speech Pathology: Organic Disorders	3
	Or	
SPV 326	Speech Pathology 1: Functional Disorders	3

SPV 326: Prerequisite SPV 321.

Speech-Language-Hearing Sciences Minor

The Department minor consists of 12 credits taken at the 200 level or higher.

Urban Studies (Interdisciplinary)

Coordinator: Professor Duran Fiack (Carman Hall, Room 358)

Many students with majors in the social sciences wish to focus their course work on the problems of cities. Participation in the Urban Studies specialization enables these students to pursue their interests in a more structured way, while at the same time completing all course work requirements in their own majors. Participation in the Urban Studies specialization in no way replaces a major. Rather, it provides a setting for students to choose their elective courses around urban themes, to meet students and faculty from other majors who share these concerns, and to participate in interdisciplinary Urban Studies seminars and field research.

Urban Studies Program

Students wishing to specialize in Urban Studies should have taken at least one of the urban-related courses listed below as a prerequisite and be recommended by the instructor in that course to the Urban Studies Committee. The student should then apply to the Committee for admission to the specialization.

The courses acceptable as prerequisites are as follows:

ANT 342	Anthropology of Cities	3
AAS 226	Community Organization	3
ECO 314	Urban Economics	3
FCS 180	Modern Housing	3
GEH 267	The New York Metropolitan Region	3
HIU 333	American Urban History	3
POL 211	Public Policy	3
POL 217	Criminal Justice	3
POL 305	Public Administration	3
POL 309	State and Local Politics	3
POL 310	Urban Politics and Government	3
POL 313	Political Issues in New York City	3
POL 317	The Politics of American Public Education	3
POL 470/POL 470/SOC 470	Seminar and Internship Program in New York Government	4
PSY 336	The Psychology of Ethnicity	3
PSY 338	Community Psychology	3
SOC 234	Urban Sociology	3

Requirements of the Specialization

Students accepted for the specialization meet with a faculty committee to plan a sequence of four electives related to urban studies, in addition to the two courses URB 450: Urban

Studies Seminar and URB 470: Field Research. The electives are to be chosen from existing course offerings in the social sciences outside the student's own major. They may be chosen from the list of prerequisites for entrance into the specialization, or they may be courses that receive specific approval from the faculty committee. URB 450 (Urban Studies Seminar) is open only to students in the specialization who have completed at least three electives in urban studies-related courses. The interdisciplinary field research course, URB 470, is also open only to participants in the Urban Studies specialization and may not be taken until URB 450 has been completed.

Women's and Gender Studies (Interdisciplinary)

Director: Bertrade B. Ngo-Ngijol Banoum (Carman Hall, Room 221)

Steering Committee: Prof. Bertrade B. Ngo-Ngijol Banoum, African Studies; Prof. Sharon Freedberg, Social Work; Prof. Arianevani Kannan, English; Prof. Marie Marianetti, History; Prof. Susan Markens, Sociology; Prof. Janet Munch, Library; Prof. Anne Rice, Africana Studies; Ms. Amanda Dubois, Community Engagement

The faculty of the Women's and Gender Studies Program is drawn from a number of different departments within the College. Integrating a wide array of courses from the humanities and social sciences, the program focuses on the histories and situations of women in different cultures, and on the ways in which social and economic factors have affected women's lives. As a result, students augment skills and knowledge acquired in other disciplines, and gain insight into issues related to gender that will be especially useful for careers in human services, health, education, and public policy advocacy. The program also provides the background needed for graduate study in the humanities and social sciences as well as in women's studies. Offered only as a minor field, the Women's and Gender Studies program is an option for students majoring in any discipline. Courses are open to all interested students.

Women's and Gender Studies Option (18-Credit)

Students complete 18 credit hours in Women's and Gender Studies

List I: Women's and Gender Studies and Cross-Listed Courses

Six of these credits may be within the student's major field selected from List I.

WST 136/HEA 136/WST 136	Family and Community Health	2
-------------------------	-----------------------------	---

WST 206/ANT 206/WST 206	Anthropological Perspectives on Women and Men	3	ANT 334	Family Mind and Culture	3
WST 209/PSY 209/WST 209	Psychology of Women	3	ACU 226	Greek Daily Life	3
WST 210/ANT 210/LAC 210/WST 210	Women in Latin America	3	ACU 227	Roman Daily Life	3
WST 220	Introduction to Women's Studies	3	ECO 326/BBA 326/ECO 326	Labor Economics	3
WST 228/WST 228/AAS 228	African American Families	3	ECO 316	Economics of Inequality	3
WST 234/WST 234/ENG 234	Women in Literature	3	FCS 180	Modern Housing	3
WST 239/AAS 239/WST 239	Black Women in American Society	3	FCS 317	Consumption Behavior	3
WST 240/AAS 240/WST 240	Women in African Society	3	FCS 374	Consumer Advocacy	3
WST 250	Topics in Women and Society	3	HIA 331	Life and Society in the Middles Ages	3
WST 255	Topics in Women and Religion	3	HIU 340/AAS 340/HIU 340/WST 340	History of African American Women	3
WST 260	Topics in the History of the Women's Movement	3	HIU 342	History of American Labor	3
WST 302/ACU 302/WST 302	Women in Antiquity	3	PHI 232	Classical Ethical Theories	3
WST 307/HEA 307/WST 307	Human Sexuality	3	PHI 236	Social Philosophy	3
WST 308/HEA 308/WST 308	Parenting and Child Health	3	PHI 360	Philosophy of Protest & Liberation	3
WST 317/FCS 307/WST 317	Family Relationships	3	POL 303	Constitutional Law: Government Structures and Powers	3
WST 328/HIU 328/WST 328	The Family in American History	3	POL 304	Constitutional Law: Personal Rights and Liberties	3
WST 329/HIU 329/WST 329	History of Sexuality and Sex Roles in America	3	POL 316	Organizing an Election Campaign	3
WST 331/HIU 331/WST 331	History of Women in America	3	POL 323	Marxism	3
WST 341/POL 341/WST 341	Women and Politics	3	ESC 300	Human Relations	3
WST 348/PSY 328/WST 348	Family Psychology	3	ESC 406	Sex Education, Cultural Values, and Family Life	3
WST 372/FCS 372/WST 372	Family Relationships: Field Study and Seminar	2	SOC 240/NUR 240/SOC 240	Death, Dying, and Bereavement	3
WST 481	Senior Seminar in Women's Studies	3	SOC 243	The Aged in Modern Society	3
			SOC 309	Social Inequality	3

Each student registered for the Women's and Gender Studies Option is required to take a 3-credit Senior Seminar in Women's Studies (WST 481).

Women's and Gender Studies Minor

Requirements for the Minor in Women's and Gender Studies

Students complete 12 credit hours in Women's and Gender Studies from List I. These may not be in the student's major field.

List I: Women's and Gender Studies and Cross-Listed Courses

WST 136/HEA 136/WST 136	Family and Community Health	2
WST 206/ANT 206/WST 206	Anthropological Perspectives on Women and Men	3
WST 209/PSY	Psychology of Women	3

List II: Background Courses

Students must also complete, as background courses, 12 credits selected from List II. Of these, 6 credits may be in the student's major field.

ANT 228/ANT 228/LNG 228	Language and Culture	3
ANT 330	Dynamics of Culture Change in a Global Context	3
ANT 332	Kinship, Marriage, and the	3

209/WST 209		
WST 210/ANT 210/LAC 210/WST 210	Women in Latin America	3
WST 220	Introduction to Women's Studies	3
WST 228/WST 228/AAS 228	African American Families	3
WST 234/WST 234/ENG 234	Women in Literature	3
WST 239/AAS 239/WST 239	Black Women in American Society	3
WST 240/AAS 240/WST 240	Women in African Society	3
WST 250	Topics in Women and Society	3
WST 255	Topics in Women and Religion	3
WST 260	Topics in the History of the Women's Movement	3
WST 302/ACU 302/WST 302	Women in Antiquity	3
WST 307/HEA 307/WST 307	Human Sexuality	3
WST 308/HEA 308/WST 308	Parenting and Child Health	3
WST 317/FCS 307/WST 317	Family Relationships	3
WST 328/HIU 328/WST 328	The Family in American History	3
WST 329/HIU 329/WST 329	History of Sexuality and Sex Roles in America	3
WST 331/HIU 331/WST 331	History of Women in America	3
WST 341/POL 341/WST 341	Women and Politics	3
WST 348/PSY 328/WST 348	Family Psychology	3
WST 372/FCS 372/WST 372	Family Relationships: Field Study and Seminar	2
WST 481	Senior Seminar in Women's Studies	3

Each student registered for the Women's and Gender Studies Option is required to take a 3-credit Senior Seminar in Women's Studies (WST 481).

Courses

AAS - African American Studies

AAS 166 - Introduction to African and African American Studies (3)

A thematic and methodological introduction to African and African American Studies from diverse disciplinary perspectives, including the humanities, social sciences, and the arts.

Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

AAS 212 - African Art (3)

Historical survey of African art, traditional and contemporary.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 213 - African American Art (3)

Historical survey of works of African American artists.

Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

AAS 214 - Literature of the Caribbean and the Caribbean Diaspora (3)

Comparative survey of literature of the Caribbean as well as Caribbean Diasporic populations, including common themes, structures, and approaches to literary texts. Examples are chosen from works in Spanish, French, English, and Papiamentu, read in translation if necessary.

Cross-Listed as: LEH LAC 214/LTS 214/AAS 214.
Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-spring.

AAS 225 - The Contemporary Urban Community (3)

Survey of the development of urban communities and institutions and of public policy issues facing modern urban populations such as housing, health care and education.

Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

AAS 226 - Community Organization (3)

The structure of the inner city as it affects African-Americans. Analysis of community needs and resources health, housing, recreation, and neighborhood projects in urban areas. The organization of community action projects within a theoretical framework for understanding and applying models of community control.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 228 - African American Families (3)

Diversity of African American families from enslavement to the present through the lens of race, class, gender and the impact on social structures and institutions.

Cross-Listed as: LEH WST 228/AAS 228. Requirement Designation: Flexible Core - US Experience in its Diversity. Offered: Fall-Spring.

AAS 232 - African Civilizations (3)

Exploration of the development of African civilizations from the origin of humankind to the present day. Their contributions to the development of the continent and the major world civilizations.

Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

AAS 235 - Caribbean Societies (3)

A comparative study of Caribbean societies and cultures, with emphasis on the commonality and diversity in their historical, social, political, and economic development.

Cross-Listed as: LEH LAC 235/AAS 235. Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

AAS 238 - African American Theatre (3)

Contemporary African American plays and playwrights. The changing image of African Americans from the stereotypes of early American theatre to contemporary representations.

Cross-Listed as: LEH THE 238 / AAS 238. Requirement Designation: Flexible Core - Creative Expression.

AAS 239 - Black Women in American Society (3)

The experiences of and contributions made by women of African descent living in the United States. Emphasis on the effects of race, gender, socioeconomic status, sexuality, and spirituality in their lives.

Requirement Designation: Flexible Core - US Experience in its Diversity. Offered: Fall-Spring.

AAS 240 - Women in African Society (3)

Roles and status of women in traditional, colonial, and contemporary African societies. Impact of international organizations and globalization.

Cross-Listed as: LEH AAS 240/WST 240. Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

AAS 241 - Literature of the English & Francophone Caribbean (3)

Analysis of the literary works of Caribbean writers. Poetry, the novel, drama, and other literary forms of major authors.

Cross-Listed as: LEH LAC 241/AAS 241. Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

AAS 242 - African Literature (3)

Analysis of African literary texts, including the epic, folktale, song, poetry, the novel, short story, and memoir.

Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

AAS 245 - History of African Americans (3)

A study of the major forces shaping the history and culture of African-Americans.

Requirement Designation: Flexible Core - US Experience in its Diversity. Offered: Fall-Spring.

AAS 248 - African History (3)

Introduction to the history of Africa.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 266 - Contemporary Black Music (3)

Development of contemporary Black music from jazz to hip hop.

Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

AAS 267 - African-American Literature (3)

Literary expression and historical experience of African American writers.

Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

AAS 268 - The Economics of Poverty (3)

A course offering an objective evaluation and analysis of the nature of poverty in America as it relates to African Americans. The many economic as well as social, political, and institutional causes and characteristics of poverty are explored. Various aspects of antipoverty programs are considered. The course also reviews recent theories of alleviating poverty in Black urban areas.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 269 - Introduction to African Philosophy (3)

Examination of traditional and contemporary African philosophies.

Cross-Listed as: LEH PHI 269/AAS 269. Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

AAS 300 - Literatures of the African Diaspora in Latin America (3)

Analysis of literature by Latin American writers of African descent. Poetry, the novel, drama, and other literary forms. Works studied translated to English.

Cross-Listed as: LEH LAC 300/AAS 300. Offered: Fall-Spring.

AAS 303 - Globalization and Africa (3)

Economic transformation in Africa. The impact of globalization and transnationalism on political movements and the migration of peoples and ideas.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 304 - Societies and Cultures of Africa (3)

Comparative study of African societies and cultures. Dynamics of organizations and social institutions including family and kinship systems.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 305 - African Philosophical Thought (3)

Traditional and contemporary African philosophical thought, including worldviews, ethics, ontology, and religions.

Cross-Listed as: LEH PHI 305/AAS 305. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 306 - The Haitian-Dominican Border: Nation, State and Race (3)

Major issues in the socio-historical development and dynamics of the Haitian-Dominican border, including physical and psychological divisions, social formations, state formation, migration, bi-national relations, and human rights.

Cross-Listed as: LEH LAC 306/AAS 306. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 307 - Black Brazil (3)

Analysis of the social, political, and cultural ideology and practices of Black Brazilians.

Cross-Listed as: LEH LAC 307/AAS 307. Offered: Fall-Spring.

AAS 310 - Black Feminisms (3)

Contemporary Black feminist thought.

Cross-Listed as: LEH WST 310/LAC 310/LTS 310/AAS 310.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 311 - Black Nationalism (3)

Analysis of the social, political, and cultural ideology and practices of Black Nationalist movements.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 312 - African American Religious Movements in the United States (3)

Development of the Black church and African American religious movements in the United States.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 313 - The African-American Economy (3)

Historical and contemporary analysis of the role Blacks have played in U.S. economic development. The economic status of Blacks in terms of labor unions, job and employment opportunities, purchasing power, investment, and savings.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 316 - Introduction to Community Development and Planning (3)

General survey of the city and its problems as they affect urban communities. Effecting neighborhood change through community organization, using problem-defining and solving techniques, and community control to effect social, economic, and institutional development.

Prerequisite: AAS 226. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 317 - African Americans and the Law (3)

Major constitutional and statutory provisions and judicial rulings affecting African Americans.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 318 - African American Psychology (3)

Methods for studying the effects of a variety of aspects of African American culture on the social, cognitive, and linguistic development of African Americans.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 320 - Ancient Egypt (KMT) (3)

Explorations of the origins and development of Ancient Egypt (KMT). Interaction with the rest of Africa and beyond.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 321 - African Americans in Cinema (3)

Visual images of African Americans in films, shorts, cartoons, and documentaries.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 322 - The City in Africa (3)

The city in contemporary Africa.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 323 - History of Africa to 1800 (3)

Events and forces shaping African history before 1800.

Cross-Listed as: LEH AAS 323/HIW 323. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 324 - History of African American Education (3)

Historical, social, political, and economic factors shaping the education of African Americans.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 326 - Africa in Cinema (3)

Study of images of Africa in cinema.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 327 - History of Africa 1800 to the Present (3)

Events and forces shaping the history of Africa after 1800.

Cross-Listed as: LEH AAS 327/HIW 327. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 328 - Prison Narratives (3)

Literary and media representations of US prison systems in the 20th and 21st centuries.

Requirement Designation: Regular Liberal Arts.

AAS 330 - The Civil Rights Movement (3)

Study of the modern Civil Rights movement.

Cross-Listed as: LEH HIU 330 / AAS 330. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 332 - African American Media (3)

Analysis of the African American media's role in U.S. history and culture.

Cross-Listed as: LEH MCS 332/AAS 332. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 334 - Music of the Caribbean (3)

Analysis of music and performance in Caribbean cultures and societies.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 335 - The Caribbean in World Politics (3)

Problems and prospects for Caribbean states in contemporary world politics.

Cross-Listed as: LEH LAC 335/AAS 335. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 338 - Race and Ethnicity in Society (3)

Sociological perspectives on race and ethnic relations in the United States and other societies.

Cross-Listed as: LEH PHI 338/ SOC 338 / AAS 338. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 339 - African Languages (3)

Examination of African languages and language families, with special focus on their characteristics and developments including African Pidgin and Creole languages. An analysis of relations of languages to ethnicity and identity, as well as contributions of African languages to general linguistic theory.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 340 - History of African American Women (3)

The social, political, and cultural history of African American women in the United States from an interdisciplinary perspective.

Cross-Listed as: LEH AAS 340/HIU 340/WST 340. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 342 - African-Americans in the Political System (3)

The role, influence, and impact of African-Americans on the political process in the United States.

Cross-Listed as: LEH POL 342/AAS 342. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 343 - African American Women Writers (3)

African American women's prose, poetry, fiction and drama.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 344 - African Women Writers (3)

African women's writing, from the rich oral tradition to prose, poetry, fiction and drama.

Cross-Listed as: LEH AAS 344/WST 344/ENG 344. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 345 - African American Poetry (3)

Development of the African American poetic tradition. Eighteenth century poetry, the vernacular, major poetic

movements such as the Harlem Renaissance and Black Arts, Feminism, and the Spoken Word.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 346 - African American Autobiography (3)

Major texts of African American autobiography.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 348 - Literatures of Africa and the African Diaspora (3)

Contemporary poetry, prose, fiction, and drama of Africa and the African Diaspora.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 349 - The Harlem Renaissance (3)

Examination of poetry, prose, folklore, history, politics, art, and music of the Harlem Renaissance.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 351 - Topics in African History, Politics, and Society (3)

Selected aspects of African history, politics, and society. Topics to be announced each semester

Cross-Listed as: LEH HIS 351/AAS 351/HIW 351. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 352 - Topics in African American History and Culture (3 (Maximum of 9 credits. May be repeated twice with change of topic).)

Selected aspects of African American history and culture. Topics to be announced each semester.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 353 - Topics in Caribbean History, Politics, and Society (3)

Selected aspects of Caribbean history, politics, and society. Topics to be announced each semester.

Cross-Listed as: LEH AAS 353/HIW 353. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 354 - Black Panther Women and Gender Politics (3)

Analysis of the history, political development, praxis, platform, and decline of the Black Panther Party for Self-Defense from 1966 to 1982.

Cross-Listed as: LEH HIU 354/WST 354/AAS 354. Requirement Designation: Regular Liberal Arts.

AAS 356 - Afrofuturism (3)

Development and analysis of expressions of imagination, characterization, and mischaracterization of color through a variety of genres including science-fiction, fantasy, horror, short stories, memoirs, novels, prose, poetry, drama, narrative film, essay, art, and music.

AAS 381 - Individual Tutorial Project in African and African American Studies (3 (maximum of 6 credits. May be repeated once with change of topic).)

Opportunity for students to pursue individual research and reading on a specific topic, under faculty supervision.

Prerequisite: Department permission required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 390 - Research Methods (3)

Interdisciplinary research in African and African American Studies.

Prerequisite: Department permission required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 400 - Seminar: Slavery in the New World (3)

Intensive study of the institution of slavery in the New World.

Prerequisite: Department permission required. Cross-Listed as: LEH LAC 400/AAS 400. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 451 - Seminar in African History, Politics, and Society (3)

Independent reading and research on a selected topic.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 470 - Fieldwork in the African American Community (3)

Supervised placement in community service agencies and institutions.

Prerequisite: Department permission required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 475 - Fieldwork in Africa (3)

This course provides students with the opportunity to receive academic credit for participation in a summer study program in Africa or supervised independent research in Africa.

Prerequisite: Department permission required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AAS 481 - Honors Project (3)

Provides students with the opportunity to do supervised individual research and directed reading in the student's major.

Prerequisite: Department permission required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ACC - Accounting**ACC 171 - Principles of Accounting I (3)**

Financial accounting as means of recording, classifying and reporting financial data, including accounting cycle and preparation of financial statements for sole proprietorships.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ACC 185 - Introduction to Accounting for Non-Accounting Majors (3)

Study of accounting principles, their application and use in the preparation and interpretation of financial statements. The uses of accounting for management and control.

Requirement Designation: Regular Non-Liberal Arts.

ACC 272 - Principles of Accounting II (3)

Financial accounting for partnerships and corporations. Introduction of fundamentals of managerial accounting.

Prerequisite: ACC 171. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ACC 334 - Intermediate Accounting I (3)

In depth analysis of the income statement, balance sheet, and the concepts relating to accounting for assets and liabilities.

Prerequisite: ACC 272. Cross-Listed as: LEH ECO 334/ACC 334. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ACC 335 - Intermediate Accounting II (3)

In depth analysis of statement of cash flows, revenue recognition, accounting for stockholders' equity, earnings per share, investments, leases, and pension plans.

Prerequisite: ACC 334. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ACC 342 - Advanced Accounting (3)

Accounting for business combinations and preparation of consolidated financial statements.

Prerequisite: ACC 335. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ACC 343 - Analysis of Financial Statements (3)

Types of financial reports and methods of interpretation; evaluation of specific companies and industries; price-level changes, "cash flow" analysis, and funds statements.

Prerequisite: ACC 342. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ACC 348 - Computer-Based Accounting (3)

Practical introduction to Excel and to accounting information systems using accounting software.

Prerequisite: ACC 272. Cross-Listed as: LEH ECO 448/ACC 348. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ACC 370 - Internship in Accounting (3)

One hour of weekly class meetings plus eight to ten hours of supervised internship in a setting where students can combine their academic education in accounting with work experience in their area of study.

Prerequisite: Departmental permission after student has located and arranged for the internship with an organization. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ACC 385 - Independent Study in Accounting (3 (may be repeated for a maximum of 6 credits).)

Individual study and research of a specific topic under the direction of a faculty member.

Prerequisite: Instructor's permission and ACC 334. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ACC 439 - Cost Accounting I (3)

Cost systems and methods including process and job order costing, cost-volume-profit, joint and by-products, and activity-based costing.

Prerequisite: ACC 272. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ACC 440 - Cost Accounting II (2)

Focus on budgeting, relevant costs, inventory costing and management.

Prerequisite: ACC 439. Cross-Listed as: LEH ECO 440/ACC 440. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ACC 441 - Auditing (4)

Introduction to professional auditing theory and practice, the ethics of the accounting profession, procedures for auditing the balance sheet and income statement, special investigations and reports.

Prerequisite: ACC 342. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ACC 442 - Introduction to Federal Taxation (3)

Introduction to basic tax principles as they affect individual taxpayers. Emphasis on Internal Revenue Code: regulations, rules, and court decisions. Manual preparation of individual tax returns.

Prerequisite: ACC 335 or Departmental permission. Cross-Listed as: LEH ECO 442/ACC 442. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ACC 444 - Advanced Accounting Problems (3)

In depth examination of advanced accounting concepts and its application to the solution of problems from professional examinations and business situations.

Prerequisite: ACC 342 or Departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ACC 445 - Forensic Accounting (3)

Examination of financial fraud with historical perspective, psychology of the fraudster, role of auditor and forensic accounting investigator, and fraud detection techniques.

Prerequisite: ACC 342. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ACC 446 - Nonprofit and International Accounting (3)

Focus on governmental, partnerships, international accounting and accounting for not for profit organizations.

Prerequisite: ACC 342 Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ACC 447 - Financial Accounting Theory (3)

Generally Accepted Accounting Principles (GAAP) as practiced in the U.S., with emphasis on revenue recognition, asset valuation, financial statement presentation and disclosure.

Prerequisite: ACC 335. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ACC 449 - Taxation of Business Entities (3)

Introduction to tax principles as they affect businesses. Emphasis on Internal Revenue Code: regulations, rules, and court decisions.

Prerequisite: ACC 442. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ACC 490 - Honors Project in Accounting (3)

Supervised individual research and directed reading in selected areas of accounting. An honors essay or some other suitable presentation is required.

Prerequisite: A minimum of 3.2 GPA, permission of the instructor, and ACC 348 and ACC 444. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ACU - Ancient Culture

ACU 160 - Introduction to the Greek and Roman Cultures (3)

Prepares student for further work in Graeco-Roman culture. The study of examples of major literary genres and their relationships with religion; social and economic life; and the development of philosophical, ethical, and political views.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ACU 226 - Greek Daily Life (3)

Study of the major aspects of the daily life--domestic, civic, and religious--of the individual Greek of antiquity.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ACU 227 - Roman Daily Life (3)

Study of the major aspects of the daily life--domestic, civil, and religious--of the individual Roman of antiquity.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ACU 231 - Current English Usage of Latin and Greek (3)

A study of the most important Latin and Greek elements in English usage, both literary and scientific: principles of etymology and word formation; and consideration of such specialized vocabularies as poetic, philosophic, legal, and medical.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ACU 232 - The Vocabulary of Medical and Scientific Terminology (3)

The course provides students with the ability to understand and use medical and scientific terminology by studying and analyzing those Greek and Latin elements that have served as the basis for all scientific vocabulary since the Renaissance.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ACU 266 - Classical Myth and the Human Condition (3)

Study through literary and artistic sources of selected classical myths that explore essential problems of human existence.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ACU 302 - Women in Antiquity (3)

A study of the roles of women in Greek and Roman society as they can be seen from the important literary works of antiquity. Attitudes toward women will also be examined, with some attention being paid to mythological and archaeological sources.

Cross-Listed as: LEH ACU 302/WST 302. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ACU 304 - The Literature of Ancient Science (3)

A general study of the literary and culture aspects of Greek and Roman scientific prose and poetry, with readings from ancient writers on medicine, physics, mathematics, astronomy, and engineering.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ACU 305 - Greek Literature in Translation (3)

Study of Greek literature and thought from Homer to Socrates, with supplements from Hellenistic and later literature. Emphasis will be on the emergence of the concept of man as an individual and as a social creature and on the expression of that concept in the evolution of lyric, drama, history, oratory, and philosophy as formal literary genres.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ACU 306 - Roman Literature in Translation (3)

Study of the outstanding works of Roman literary art and thought from Plautus to Boethius. Consideration of the developed humanism of the Roman world in its varied facets and of its contributions to the literary art of medieval and modern times.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ACU 307 - The Greek and Roman Epic in English Translation (3)

Ancient narrative song and poetry in its development from Homer to Statius, with chief emphasis on the Iliad and the Odyssey and the Aeneid of Vergil.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ACU 308 - Greek and Roman Tragedy in English Translation (3)

A study of the plays of Aeschylus, Sophocles, and Euripides against their religious and social backgrounds. The Roman treatment of Greek tragic themes by Seneca the Younger, with some attention to the influence of the latter on European drama.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ACU 309 - Ancient Comedy in English Translation (3)

A study of selected plays of Aristophanes, Menander, Plautus, and Terence.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ACU 310 - History and Biography as a Genre of Literature (3)

Study of the major Greek and Roman writers of history: Herodotus, Thucydides, Xenophon, Polybius, Caesar, Sallust, Livy, Tacitus, and Ammianus Marcellinus, with supplements from biographers and the minor historians. Special emphasis will be placed on myth and saga, cultural background, and the place of the works in ancient literature.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ACU 311 - Women in Antiquity (3)

Examination of the image, role and status of women in both Ancient Greek and Roman society as seen from the important literary works of antiquity.

Cross-Listed as: LEH HIA 311/ACU 311. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ACU 315 - Philosophical Thought before Socrates (3)

The development of speculative, rhetorical, and ethical literature in Greece from earliest times to the period of Socrates. Special attention will be given to those factors that contributed to the basis of the Socratic method of inquiry.

Prerequisite: One PHI course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ACU 316 - Greek Archaeology of the Classical Period (3)

Study of major Greek sites of the fifth and fourth centuries B.C., including the topographies of Athens, Sparta, Corinth, and Thebes. The influence of Greece on surrounding civilizations, such as Persia, will be investigated, and the effects of the cultural and political life of the period on urban development will be stressed.

Cross-Listed as: LEH ACU 316/HIA 316. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ACU 318 - Roman Archaeology and Topography (3)

Study of the major pre-Roman sites of Italy, including the cities of Etruria. The development of the city of Rome during the Republican period, and the investigation of such sites as Pompeii and Herculaneum. The spread of Romano-Hellenistic urban civilization throughout the Mediterranean region during the empire. A detailed study of the topography of Imperial Rome.

Cross-Listed as: LEH ACU 318/HIA 318. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ACU 321 - The Ancient Romance (3)

The study of Greek, Roman, and early Christian romantic literature, from the Odeyssey to the 4th century A.D. Consideration of the development of the literary genre and the social context in which the works were written; influence on medieval and modern fiction.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ACU 350 - Topics in Ancient Culture (3)

Selected topics in ancient culture.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ACU 381 - Tutorial in Ancient Culture (3)

Individual or group study of a special field or author.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AMS - American Studies

AMS 111 - American Culture-Value and Traditions (3)

Introduction to the values, traditions, and beliefs central to American culture.

Requirement Designation: Flexible Core - US Experience in its Diversity. Offered: Fall-Spring.

AMS 211 - American Studies Methods and Materials (3)

Through examination of works in American studies, students will explore procedures and techniques of analyzing and evaluating the range of source materials in American culture. Emphasis will be placed upon comparing and testing the methodologies of history, literature, the arts, and the social science for their adaptability to the investigation of American culture.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AMS 360 - Special Topics in American Studies (3 (maximum 6 credits).)

Examination of selected content areas of American culture. Emphasis upon integrating material drawn from various disciplines into a consistent perspective on American culture through the application of alternative theories of the meaning of American experience.

Prerequisite: AMS 211 (or equivalent) and adviser's permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AMS 361 - Contributions to American Studies (3)

Examination of the contribution of various fields of study to the investigation of American culture. Topics may include myth-symbol analysis, structuralism, functionalism, systems models, aesthetic and evolutionary models, and quantitative inferences.

Prerequisite: AMS 211 (or equivalent) and adviser's permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AMS 460 - American Studies Seminar (3)

Reading and research projects on selected aspects of American culture. Attention will be given to analysis and interpretation of American studies materials.

Prerequisite: Either AMS 360 or AMS 361. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AMS 485 - Independent Study (3 (maximum 6 credits).)

Individual research projects on specific interdisciplinary problem in American culture, directed by a faculty member in the American Studies Program. Normally a research paper is expected, which may serve as a senior thesis. Outstanding papers will be considered for honors awards.

Prerequisite: Either AMS 360 or AMS 361 and adviser's and instructor's permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT - Anthropology**ANT 120 - Human Evolutionary Biology (3)**

An introduction to the scientific study of the evolutionary origins of the human species, providing an overview of the scientific method, evolutionary theory, the natural history of primates, the human fossil record, and variation within and between living human populations.

Requirement Designation: Required Core - Life and Physical Sciences. Offered: Fall-Spring.

ANT 142 - Images of Culture (3)

An introduction through films, lectures, and readings to anthropological perspectives on human culture. Survey focusing on the universal pattern of human culture: modes of adaptation and livelihood, sex roles, religious rituals, and government systems, including peacekeeping and war-making.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 171 - Introduction to Human Evolution (4)

The integrated study of human evolutionary history, including a consideration of evolutionary theory, genetics, modern human variation, adaptation and anatomy, the behavior and paleontology of our close primate relatives, and the fossil record of human biological and cultural change.

Requirement Designation: Life and Physical Sciences or Scientific World. Offered: Fall-Spring.

ANT 206 - Anthropological Perspectives on Women and Men (3)

The roles of females and males in both simple and complex societies. Exploration of some of the factors involved in differential allocation of work, roles, prestige, and power among females and males. Factors to be examined include economic structure, the distribution of power, the process of socialization, and ecological adaptation.

Cross-Listed as: LEH WST 206/ANT 206. Requirement Designation: Flexible Core - Individual and Society. Offered: Fall-Spring.

ANT 210 - Women in Latin America (3)

The impact of social and cultural differences among women on gender relations, women's sexualities and identities in Latin America.

Cross-Listed as: LEH ANT 210/LAC 210/WST 210.

Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

ANT 211 - Cultural Anthropology (3)

An examination of cultural variations in contemporary and historical societies worldwide. Discussion of specific cultural components, such as technology and material products, language, economy, values, ideology, religion, and aesthetics. Consideration of the role of cultural anthropology in addressing contemporary global issues.

Requirement Designation: Flexible Core - Individual and Society. Offered: Fall-Spring.

ANT 212 - Ancient Peoples and Cultures (3)

The use of archaeological and early documentary data to study the origins and development of culture, agriculture, and complex societies.

Requirement Designation: Flexible Core - Scientific World. Offered: Fall-Spring.

ANT 228 - Language and Culture (3)

Cultural meanings of language in use and the interrelations between linguistic behaviors and cultural practices.

Cross-Listed as: LEH ANT 228/LNG 228. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 230 - Selected Studies in Societies and Cultures (Africa) (3)

Description and analysis of these areas' distinctive ecological, economic, socio-political, and ideological systems.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 231 - Selected Studies in Societies and Cultures: Middle East (3)

Description and analysis of these areas' distinctive ecological, economic, sociopolitical, and ideological systems.

Cross-Listed as: LEH ANT 231/MES 231. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 232 - Selected Studies in Societies and Cultures (Europe) (3)

Description and analysis of these areas' distinctive ecological, economic, socio-political, and ideological systems.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 233 - Selected Studies in Societies and Cultures (India) (3)

Description and analysis of these areas' distinctive ecological, economic, sociopolitical, and ideological systems.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 234 - Selected Studies in Societies and Cultures (Oceania) (3)

Description and analysis of these areas' distinctive ecological, economic, socio-political, and ideological systems.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 235 - Selected Studies in Societies and Cultures (Native North America) (3)

Description and analysis of these areas' distinctive ecological, economic, sociopolitical, and ideological systems.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 236 - Selected Studies in Societies and Cultures (Southeast Asia) (3)

Description and analysis of these areas' distinctive ecological, economic, sociopolitical, and ideological systems.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 237 - Selected Studies in Societies and Cultures (East Asia) (3)

Description and analysis of these areas' distinctive ecological, economic, sociopolitical, and ideological systems.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 238 - Selected Studies in Societies and Culture: Latin America (3)

Description and analysis of these areas distinctive ecological, economic, sociopolitical, and ideological systems.

Cross-Listed as: LEH LAC 238/ANT 238. Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

ANT 239 - Peoples and Cultures of Afghanistan, Pakistan, and India (3)

The diverse cultures of Afghanistan, Pakistan, and India in their many aspects: geographical, historical, archaeological, ethnic, religious, linguistic, artistic, culinary, and musical.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 240 - Emergence of Ancient Civilizations (3)

Anthropological perspectives on the rise of early civilizations, states, and urbanism in Mesopotamia, Egypt, Pakistan, China, Mesoamerica, and Peru.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 241 - Uncovering the Culture of Early New York City (3)

An archaeological perspective on the early history of New York City, including Native American settlements, the founding of New Amsterdam, and early settlement in the Bronx. Special attention will be paid to the lives of misrepresented or ignored groups.

Requirement Designation: Regular Liberal Arts.

ANT 250 - The Italian-American Community (3)

The immigration to America from the 1880s to the present, and the emergence of the Italian-American community, with particular emphasis on the social structure of the community and its changing cultural values.

Prerequisite: None, if student wishes to count the course toward the Anthropology major. For credit toward a major in Sociology, the prerequisite is SOC 166. Cross-Listed as: LEH ANT 250/IAS 250/SOC 250. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 251 - Peoples and Cultures of [geographic area to be determined] (3 (May be repeated for credit as the topic changes up to a maximum of 6.))

Description and comparative analysis of the culture, including economic, socio-political, ecological, and ideological aspects of a selected geographic region or ethnic group.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 269 - Introduction to Human Variation (4)

Considers how and why people differ physically within and between groups, the genetic and functional basis for these differences, and their significance for adaptation and survival. Topics range from skin, hair, and eye color differences to variations in body size and proportions, serological and biochemical differences, and growth pattern differences. Theoretical issues discussed include the concepts of race/clines, microevolution and the continuing evolution of the human species.

Requirement Designation: Life and Physical Sciences or Scientific World. Offered: Fall-Spring.

ANT 271 - Excavation of the Lehman College Site (4)

Introduction to archaeological field methods through the creation and excavation of a site on the campus of the college. Excavation and recording techniques as well as data

processing and analysis will be discussed in the classroom followed by the scientific excavation of a created site.

Cross-Listed as: LEH ANT 271/ANT 370. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 300 - Human Variation (3)

The causes and effects of biological variation on human adaptation and evolution. Emphasis is on the explanation and significance of population differences in modern human beings.

Prerequisite: ANT 269. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 301 - Human Origins (3)

The origin and evolutionary history of the human lineage, from primate roots through paleontology of apes and early humans to the biological and cultural evolution of modern humans.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 302 - Primate Behavior and Ecology (3)

Adaptations and interactions of free-ranging primates.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 303 - Human Osteology (4.5)

Detailed study of the human skeleton with techniques to determine age, sex, and "race," identify individuals, and recognize markers of trauma and disease. Applications of human osteology in forensic science, skeletal biology, bioarchaeology and paleoanthropology.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 305 - Forensic Anthropology (3)

Survey of the techniques and methods of biological anthropology as applied in the identification of human remains in a medico-legal context: field recovery of human remains, biological profile of deceased, antemortem trauma, cause/manner of death, time since death, and methods of individualization.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 306 - Survey of Forensic Science (3)

Survey of the study and practice of the application of science to the resolution of social and legal issues, including current research and procedures in criminalistics, jurisprudence, odontology, pathology, physical anthropology, psychiatry, questioned documents, toxicology, and computers.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 307 - The Anthropology of Growth (3)

Human growth and development, with emphasis on those aspects of the growth process that concern the physical anthropologist: anthropometric techniques, skeletal and dental maturation, secular trends in growth, changing growth rates as a factor in human evolution, and human growth in varying physical and cultural environments.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 309 - Human Genetics (3)

Biological inheritance in human beings. Emphasis on the genetic basis of human variation and its significance for evolution, medicine, education, and the law. Topics include twin studies, family pedigrees, mutation, selection, migration, race mixture, and behavioral genetics.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 310 - Evolution of the Primates (3)

Anatomy of nonhuman primates, especially skulls and teeth; study of fossil remains and analysis of their phylogeny and historical relationships. Evolutionary methods and philosophies.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 311 - The Archaeology of Europe (3)

The prehistoric and protohistoric cultures of Europe and the native heritage of European civilization.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 312 - African Archaeology (3)

The archaeological development of African areas including East Africa, South Africa, Sub-Saharan Africa, and the Mediterranean coast; the range of cultures from earliest human evolution to the rise of African civilizations.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 313 - Archaeology of Asia (3)

Introduction to the earliest cultures of South Asia (Pakistan and India), Southeast Asia (Thailand, Indonesia, Vietnam, Laos, Cambodia), and East Asia (China, Japan) from the origins of food production through the rise of civilization.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 314 - Archaeology of the Near East (3)

From Ice Age hunters to Hammurabi of Babylon: the major economic, social and political changes which transformed

societies of hunters and farmers into the world's first complex civilization.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 316 - Early Societies and Cultures of North America (3)

Native American cultures from all parts of the continent north of Mexico from the earliest peopling of the New World to the coming of Europeans. Ecology; the economics of subsistence and the politics of interaction; hunting and gathering and agriculture; warfare and cooperation.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 317 - Early Civilization of South America and the Caribbean (3)

The Incas and their ancestors the Arawaks and the Caribs. A region by region treatment of the prehistory of South America and the Caribbean, the course examines the diversity of ancient life in this area. Special emphasis on the native civilizations of the Andes. Additional material from all other parts of Central America, the Caribbean, and South America.

Cross-Listed as: LEH ANT 317/LAC 317. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 318 - Early Civilizations of Mexico and Central America (3)

The Aztec and Mayan civilizations of Mexico and northern Central America from the earliest peopling of the new world to the civilizations encountered by Cortes and the Spanish. Topics include the origins of agriculture and settled life, the earliest civilizations, Olmec art, Maya astronomy, and Aztec sacrifice.

Cross-Listed as: LEH ANT 318/LAC 318. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 319 - The Archaeology of South-Western North America (3)

Prehistory and cultural evolution in the American Southwest and Northern Mexico. A survey of the desert cultures of the Hohokam, Mongollon, Anasazi, and Puebloan peoples of the southwest.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 320 - Anthropological Theory and Method I (3)

Origins and evolution of theory and method in anthropology with special emphasis on the period from the mid-19th century to the end of World War II. Topics may include the comparative method; functionalism; evolution versus diffusion; and key ideas of progress, culture, and race.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 321 - Anthropological Theory and Method II (3)

Survey of main currents in anthropological theory and method from WW II to the present. Topics may include structuralism and post-structuralism; interpretive, Marxist, feminist, symbolic, post-modern, and historical anthropology; post-colonialism; non-Western anthropology; applied anthropology; and public anthropology.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 322 - Analyzing Anthropological Data Quantitatively (3)

Teaching of quantitative description, testing for differences between populations, and testing for correlations. Application of these methods.

Prerequisite: Two 3-credit ANT courses and completion of the College Requirement in Mathematics. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 323 - Methods and Philosophies in Paleoanthropology (3)

Theoretical framework of human evolution, the integrative nature of evolutionary theory, and the relevance and interpretation of fossils. Systematic and taxonomic principles in the context of fossil human and nonhuman primates. Conflicting strategies of interpreting fossil remains and evolutionary hypotheses.

Prerequisite: ANT 301 or ANT 310 or the instructor's permission.

ANT 324 - Anthropology & the Museum (3)

Museums and their roles in modern societies, including the representation of human evolution, our cultures and the cultures of others to the public; the preservation, restoration and display of objects; the organization of museum-based research; and the planning, assembly, installation, and labeling of exhibits.

Prerequisite: One ANT course or permission of the instructor. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 325 - Method and Theory in Archaeology (3)

Archaeological principles, methods, theories, and interpretation, with use of selected data from world pre-history.

Prerequisite: ANT 212. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 326 - Anthropological Linguistics (3)

Speech and language within the context of anthropology. Language as a cultural resource.

Cross-Listed as: LEH ANT 326/LNG 326. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 327 - Field Techniques in Anthropological Linguistics (2)

Interrelationship of language and culture, with particular reference to data of unwritten languages as these apply to the reconstruction of ethno-history, the analysis of cultural change, folklore, folk taxonomies, and ethnic.

Prerequisite: ANT 326. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 330 - Dynamics of Culture Change in a Global Context (3)

Major theoretical explanations of cultural change and continuity in selected historical and contemporary societies.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 331 - Prehistoric and Contemporary Subsistence Systems (3)

Theories concerning the origin and spread of animal and plant domestication are surveyed. Emphasis on the role of agricultural ecology and economics in the evolution of social systems, from small-scale village societies practicing long-fallow cultivation to states and empires depending on complex irrigation agriculture. Both ethnographic and archaeological examples are drawn upon.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 332 - Kinship, Marriage, and the Family (3)

Examination of varieties of marriage practices, forms of family organization, and kin relationships in cultures around the world.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 334 - Mind and Culture (3)

Personality differences and similarities within and between several cultures as they are produced by psychological and sociocultural forces.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 335 - Folklore and Oral Traditions (3)

Content analysis of folktales, riddles, proverbs, and origin myths with special reference to their cross-cultural function and meaning in selected societies, rural and urban.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 336 - Music and Culture (3)

Introduction to the place of music in human life.

Anthropological perspectives on the creation, performance, and role of musical forms in non-Western and Western societies.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 337 - Inequality in Cross-Cultural Perspective (3)

Comparative analysis of class, race, and/or gender inequality in a wide variety of social and cultural contexts.

Prerequisite: ANT 211 or permission of the instructor.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 338 - Religion: An Anthropological Perspective (3)

Patterns of religious belief and behavior, including concepts of the supernatural, divination, visions, and sacrifice, and the relationship of these to other aspects of culture.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 339 - Anthropology of Complex Societies (3)

Sociocultural analysis of rural and urban peoples in selected areas of the world. Emphasis on rural-urban relationships and the interaction of the local with the national and global context.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 340 - Anthropology and Education (3)

Introduction to anthropological concepts that have special relevance to education. Application of these concepts through analysis of case studies.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 341 - Medical Anthropology (3)

Relationship of culture to disease: cross-cultural attitudes toward illness and the ailing, curative practices, and problems in the introduction of Western medical practices into peasant communities. The effects of culture on the state of health of the population.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 342 - Anthropology of Cities (3)

Daily life in selected cities of the world from an anthropological perspective. Social and cultural aspects of relevant urban issues: urban growth and decline, migration, relations of cooperation and conflict, class and ethnicity, and city pleasures.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 343 - Economic Anthropology (3)

Comparative study of economic systems in tribal and peasant societies. The role of social and cultural factors in production, distribution, consumption, and exchange among hunters and gatherers, herders, and agriculturalists.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 344 - The Anthropology of Politics and Law (3)

Analysis of the development of formal and informal political structures, government, and law in tribal and peasant societies. The nature of power, authority, and social control in selected societies.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 345 - Seminar in Field Methods (3 (May be repeated for a maximum of 6 credits.))

Methods of data collection and analysis in cultural anthropology.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 346 - North American Indian Art (3)

Ancient and modern Indian art styles of North America, with special emphases on the tribal art of select regions of the United States and Canada, and relationships with adjacent traditions of pre-Columbian Mexico.

Cross-Listed as: LEH ANT 346/ARH 346. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 347 - Race and Ethnicity in Latin America and the Caribbean (3)

Comparative study of racial and ethnic relations in Latin America.

Cross-Listed as: LEH ANT 347/LAC 347. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 348 - The Ecology and Politics of Hunger (4)

An ecological, politico-economic, sociocultural, and nutritional analysis of world hunger, drawing on anthropological and historical evidence to investigate the diverse causes of hunger, the contexts in which hunger arises, and the efforts that have been made over the centuries to end hunger.

Prerequisite: PREREQ: ANT 211 or permission of the instructor. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 3500 - Anthropology and Human Rights (3)

History, development, and application of concepts and theories of anthropology to current issues in human rights. Examination of cross-cultural research on "What are rights?" Cultural relativism, the right to cultural difference, and the quest for universal human rights. Anthropological contributions to human rights theory and the dilemmas of practice in a globalized world.

Cross-Listed as: LEH HRP 3500 / ANT 3500.

ANT 351 - The Anthropology of Media (3)

Anthropological approaches to media production and consumption. The uses of media in the construction of local, national and transnational identities.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 3520 - Special Topics in Human Rights and Peace Studies (3)

Various topics in human rights and security protections.

Cross-Listed as: LEH HRP 3520 / POL 3520 / ANT 3520. Requirement Designation: Regular Liberal Arts.

ANT 356 - Advanced Ethnology (3 (maximum 9 credits.))

(May be re-elected with a change in culture area.) Intensive examination of cultures belonging to a specific culture area or culture type. Detailed consideration of both ethnographic data and ethnological problems pertaining to the area or type. (For specific area to be discussed, consult the Department.)

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 360 - Humans and the Environment (3 (May be repeated for a maximum of 6 credits.))

Physical and cultural responses of human groups, both past and present, to varying environmental conditions. The topic will vary from semester to semester, concentrating either on physical or cultural approaches to modern human adaptation or on paleoanthropology.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 370 - Excavation of the Lehman College Site (4)

Introduction to archaeological field methods through the creation and excavation of a site on the campus of the college. Excavation and recording techniques as well as data processing and analysis will be discussed in the classroom followed by the scientific excavation of a created site.

Cross-Listed as: LEH ANT 271/ANT 370. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ANT 371 - Field and Laboratory Research in Archaeology (4)

Field and laboratory techniques of excavation and data processing in the practice of archeology. Note: Archaeological excavation at actual sites in the vicinity of New York City will be undertaken, including instruction in excavation technique, mapping, and record keeping. Lab work will be conducted at the Lehman College Archaeology Laboratory, including materials analysis, conservation, and interpretation.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 450 - Seminar in Selected Problems of Cultural Anthropology (3 (maximum 6 credits).)

Research oriented course on selected problems in the field of cultural anthropology.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 451 - Seminar in Selected Problems of Archaeology (3 (maximum 6 credits).)

Research-oriented course on selected problems in the field of archaeology.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 452 - Advanced Seminar in Anthropology (3)

Selected topics examined from the perspectives of the four subfields: cultural anthropology, physical anthropology, archaeology, and anthropological linguistics.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 454 - Seminar in Selected Problems of Physical Anthropology (3 (maximum 6 credits).)

Research-oriented course on selected problems in the field of physical anthropology.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 4730 - Internship in Human Rights and Peace Studies (3)

(Minimum of 8 field hours/week and one hour weekly meeting with a faculty member). A supervised internship enabling students to acquire professional experience in areas related to Human Rights or Peace Studies.

Prerequisite: Permission from the CfHRPS Executive Director. Cross-Listed as: LEH HRP 4730 / POL 4730 / ANT 4730. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ANT 489 - Independent Research in Anthropology (2-3 credits per semester (maximum 6 credits).)

Research or fieldwork in any field of anthropology, under faculty supervision.

Prerequisite: Permission of the instructor.

ARB - Arabic**ARB 105 - Elementary Arabic I (3)**

(For students with no prior knowledge of Arabic.) Study of the basic skills of understanding, speaking, reading, and writing basic Arabic. Introduction to the culture and civilization of Arabic-speaking countries.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARB 106 - Elementary Arabic II (3)

Study of the basic skills of understanding, speaking, reading, and writing basic Arabic and the culture and civilization of Arabic-speaking countries.

Prerequisite: ARB 105 or Departmental Placement. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARB 108 - Elementary Arabic III (3)

Study of the basic skills of understanding, speaking, reading, and writing basic Arabic and the culture and civilization of Arabic-speaking countries.

Prerequisite: Department Consent Required, ARB 106 or placement by the Department. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARB 111 - Elementary Arabic I (3)

Elements of grammar, reading simple texts, practice in speaking and audio-lingual work in the Language Laboratory.

Prerequisite: Department Consent Required Requirement Designation: College Option. Offered: Fall-Spring.

ARB 112 - Elementary Arabic II (3)

Elements of grammar, reading simple texts, practice in speaking and audio-lingual work in the Language Laboratory.

Prerequisite: ARB 111 or equivalent. Requirement Designation: College Option. Offered: Fall-Spring.

ARB 201 - Intermediate Arabic I (3)

Continuation of ARB 108.

Prerequisite: ARB 108 or Departmental Placement. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARB 202 - Intermediate Arabic II (3)

Arabic language and culture. Continuation of ARB 201.

Prerequisite: ARB 201 or placement by the Department.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARB 285 - Individualized Intermediate Foreign Language Study (1)

Independent study in Arabic generally linked to a course in another field.

Prerequisite: ARB 108 or Departmental permission.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARB 301 - Advanced Arabic I (3)

This course builds upon the communication skills learned in Intermediate Arabic. Through purposeful listening, speaking, reading, and writing activities, students participate in authentic exchanges of information (e.g. describing the location of people, places and things; inquiring and offering directions; communicating about future and past events; buying items, etc.)

Prerequisite: PREREQ: ARB 202 or Department permission.
Requirement Designation: Regular Liberal Arts.

ARB 302 - Advanced Arabic II (3)

This course develops more advanced skills in reading, writing, aural comprehension and oral expression. Topics to be covered: traveling, relationships, ceremonies, services (especially public administration), careers, personal achievements. Additional materials and texts will provide a cultural supplement and introduce students to some short literary texts.

Prerequisite: PREREQ: ARB 301 or Department permission.
Requirement Designation: Regular Liberal Arts.

ARB 385 - Individualized Advanced Foreign Language Study (1)

Independent study in Arabic generally linked to a course in another field.

Prerequisite: Two semesters of ARB 285 or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH - Art History

ARH 135 - Introduction to the History of Asian Art-Islamic, Buddhist, and Hindu Cultures (3)

A study of the principles of art applied to visual forms, with emphasis on Asian art-the Islamic, Buddhist, and Hindu cultures.

Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

ARH 137 - Introduction to the History of the Arts of Africa, the Americas, and the South Pacific (3)

A study of the principles of art applied to visual forms, with emphasis on the arts of Africa, the Americas, and the South Pacific.

Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

ARH 139 - Introduction to the History of European Art from Antiquity through the Eighteenth Century (3)

A study of the principles of art applied to visual forms, with emphasis on European art from antiquity through the eighteenth century.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 141 - Introduction to the History of Modern Art of the 19th & 20th Centuries in Europe & the US (3)

A study of the principles of art applied to visual forms, with emphasis on modern art of the nineteenth and twentieth centuries in Europe and the United States.

Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

ARH 143 - Introduction to the History of Latin American Art (3)

A study of the principles of art applied to visual forms, with emphasis on modern art of the nineteenth and twentieth centuries in Central America, South America, and the Caribbean.

Cross-Listed as: LEH ARH 143/LAC 143. Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

ARH 167 - Tradition and Innovation in the Art of the West (3)

Major masterpieces in Western painting, sculpture, and architecture from antiquity to the present. Consideration of the individual artist's awareness of previous art traditions and their impact on the artist's personal style and artistic development.

Prerequisite: All 300-level courses carry the following prerequisite: One 100-level ARH course. Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

ARH 312 - Art in the United States from Colonial Times to the Civil War (3)

Architecture, sculpture, painting, the decorative and folk arts in the United States from Colonial times through the Revolutionary period to the Civil War.

Prerequisite: One 100-Level Art History Course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 314 - Art in the United States from the Civil War to the Present (3)

Architecture, sculpture, painting, the decorative arts and photography in the United States and the acceptance of modernism, first in architecture and photography, and then in painting and sculpture after World War II.

Prerequisite: One 100-Level Art History Course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 320 - Art and Revolution in the West; Neo-Classicism, Romanticism, and Realism (3)

Art in Europe and the United States from 1770-1863 encompassing the artistic movements: Neo-classicism, Romanticism, and Realism. Emphasis on the French artists of the period: David, Ingres, Delacroix, and Courbet.

Prerequisite: One 100-Level Art History Course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 325 - Art as a Human Value (2)

A study of aesthetics and the significance of art.

Prerequisite: One 100-Level Art History Course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 326 - Contemporary Art (3)

Discussion, analysis, and criticism of current painting and sculpture.

Prerequisite: One 100-Level Art History Course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 327 - Modern Painting (3)

A history of twentieth-century European and American painting, from fauvism through abstract expressionism.

Prerequisite: One 100-Level Art History Course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 328 - Modern Sculpture (3)

The development of sculpture in Europe and America in the twentieth century.

Prerequisite: One 100-Level Art History Course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 329 - Modern Architecture (3)

Origins and development of modern architecture in Europe and the Americas from the 19 century to the present.

Prerequisite: One 100-Level Art History Course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 330 - Greek and Roman Art (3)

The formation of the classical style in art and architecture.

Prerequisite: One 100-Level Art History Course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 331 - Art of Medieval Europe (3)

Architecture, sculpture, and painting (including manuscripts and stained glass) from the early Christian period through the Gothic.

Prerequisite: One 100-Level Art History Course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 332 - Art of the Early Renaissance (3)

Architecture, sculpture, and painting of the 14th and 15th centuries. Emphasis will be on Italian painting from Giotto through Botticelli and on northern painting from the Gothic illuminators through Hugo van der Goes.

Prerequisite: One 100-Level Art History Course Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 333 - Art of the High Renaissance and the Later Sixteenth Century (3)

Architecture, sculpture, and painting of the sixteenth century. Emphasis on the Italian masters of the period: Leonardo, Raphael, Michelangelo, Bramante, and Titian.

Prerequisite: One 100-Level Art History Course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 334 - Baroque Art (3)

Architecture, sculpture, and painting of the seventeenth century. Emphasis will be on the development of the baroque style in Rome, the rise of the Dutch school, and the classical tradition in France.

Prerequisite: One 100-Level Art History Course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 335 - Impressionism and Post-Impressionism (3)

The nineteenth-century French background of Impressionism from David through Courbet: the art of Manet, the Impressionists, and the Post-Impressionists through Cezanne.

Prerequisite: One 100-Level Art History Course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 336 - Egyptian and Near Eastern Art (3)

The development of art in ancient Egypt, Mesopotamia, and Iran.

Prerequisite: One 100-Level Art History Course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 337 - The Splendor of Persia (3)

Persian art and architecture from prehistoric times to the present.

Prerequisite: One 100-Level Art History Course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 338 - Islamic Art (3)

The art of Islamic people from Spain and North Africa to India and Central Asia; its sources and extensions.

Prerequisite: One 100-Level Art History Course. Cross-Listed as: LEH ARH 338/MES 338. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 340 - Art of China (3)

Chinese art from the Neolithic period to the Ch'ing Dynasty, with emphasis on painting of the Sung and later periods.

Prerequisite: One 100-Level Art History Course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 341 - Art of Japan (3)

The history of Buddhist art in Japan and its relationship with the arts of China. The development of indigenous art forms such as narrative scrolls, decorative screens, and woodblock prints.

Prerequisite: PREREQ: One 100-Level Art History Course Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 342 - Art of India and Southeast Asia (3)

Problems in the history of style and iconography in Buddhist and Hindu art.

Prerequisite: One 100-Level Art History Course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 343 - Pre-Columbian Art (3)

The art and architecture of Mexico, Central America, and South America prior to the Spanish conquest in the 16th century.

Prerequisite: One 100-Level Art History Course. Cross-Listed as: LEH ARH 343/LAC 343. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 344 - Art of Africa (3)

Analysis of form and content in the major tribal arts of West, Central, and East Africa. Also, discussion of Afro-American art and the impact of African art on modern art.

Prerequisite: One 100-Level Art History Course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 345 - Art of the South Pacific (3)

The art of Australia, Melanesia, Indonesia, Micronesia, and Polynesia. Migrations and the diffusion of Southeast Asian art in the Pacific.

Prerequisite: One 100-Level Art History Course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 346 - North American Indian Art (3)

The Indian art styles of North America, with special emphasis on the tribal art of the U.S. Northwest Coast and the U.S. Southwest. Also, relationships with adjacent traditions such as that of the Eskimo in the north and of pre-Columbian Mexico in the south.

Prerequisite: One 100-Level Art History Course. Cross-Listed as: LEH ANT 346/ARH 346. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 347 - Non-Western Impact on Western Art (3)

Studies in the influence of Oriental and primitive arts on the arts of Western Europe and on modern art.

Prerequisite: One 100-Level Art History Course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 348 - The History of Photography (3)

The history of photography from its early days in the nineteenth century to the varied photographic art forms of the present day. The interactive role of technical and artistic innovations is studied in an historical context.

Prerequisite: ART 108 and ARH 167, or permission of the instructor. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 350 - Special Topics in Art History (3 (maximum 9 credits).)

A variable topics lecture course in art history, including American art, the art of Latin America, the history of women artists, African-American art, the intensive study of individual artists, and other course areas outside the traditional discipline sequence.

Prerequisite: Any ARH 100-level Art History course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 451 - Seminar (3 (maximum 9 credits).)

(Required of ARH majors.) Group investigation of special problems in Art History.

Prerequisite: Departmental and instructor's permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 477 - Internship in Art History (3)

On-the-job training in a public or private arts institution.

Prerequisite: Prior approval of the undergraduate by Art History adviser; declared Art major (specializing in Art History), with a minimum of eighteen completed credits in the major. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ARH 489 - Research in Art History (3 (maximum 9 credits).)

Individual investigation of special problems in Art History.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ART - Art

ART 100 - Basic Drawing (3)

Introduction to drawing with an emphasis on developing perceptual skills. Study of line, value, placement, and perspective using still life and interiors. Black-and-white materials used. Introduction to artists who use drawing as the focus of their artistic practice.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ART 101 - Introduction to Two-Dimensional Design (3)

(For students with little or no experience in design for the visual arts.) Practices, concepts, history and aesthetic impact of two-dimensional design. The organization of form on two-dimensional surfaces; history of type and practice of lettering: integration of imagery and type; traditional techniques of illustration using pen and pencil as well as collage and assemblage. Documentation of theoretical and/or historical issues relevant to contemporary practice.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ART 102 - Introduction to Three-Dimensional Design (3)

Concept, design-theory, and three-dimensional organization through the functions of space, volume, mass, plane, and line. Use of materials and hands-on projects to emphasize the development of critical skills and how they apply to visual aesthetic issues of the past and present.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ART 103 - Introduction to Printmaking (3)

Basic techniques of printmaking; primarily, etching, woodcut, lithography, and silkscreen.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ART 105 - Introduction to Painting (3)

Fundamental skills, tools, materials, and techniques. Exploration of color-theory, with analysis and critique of painting styles used by contemporary artists

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ART 106 - Introduction to Sculpture (3)

Basic skills, critical thinking, and technique of sculpture with emphasis on spatial awareness as it relates to principles of art-composition. The sculpture-making process from original aesthetic idea to final realized state.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ART 107 - Ceramics I (3)

The nature, history, and unique properties of clay and ceramic arts. Structure, form, design, and decoration. Attention to the functional and sculptural concepts involved in hand-building techniques, including slab, coil, press, and drape-mold. Basic glazes and oxidation firing.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ART 108 - Introduction to Photography (3)

Theory and practice of analog and digital creative image-making, using current technology. Practical study of exposure, composition, control of color palette, basic photo-editing skills, and digital storage, with attention to the history of photography as an art form.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ART 109 - Observation and the Visual Experience (3)

Introduction to the techniques, concepts, history and aesthetic elements of observational drawing as a means of recording and reflecting upon experience.

Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

ART 110 - Elements of Visual Communication (3)

Introduction to the techniques, concepts, history and aesthetic elements of two-dimensional design as a means of visual communication.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ART 112 - Introduction to Digital Imaging (3)

(Students need no previous computer experience.) Introduction to the creation of art and imagery using computers and digital media. Production of a portfolio of images for presentation.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ART 200 - Drawing (3)

Comprehensive study of drawing, its media, and composition through observation and analysis of natural and manufactured forms.

Prerequisite: ART 100. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 201 - Life Drawing (3)

Form, structure, volume, movement, and composition pertaining to the human figure. Review of the human form as represented throughout history.

Prerequisite: ART 100. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 202 - Design (3)

Practices, concepts, history, and social ramifications of design. Typography, layout, identity, visual/physical structure, graphic iconography, and relationship of form to function. Theoretical and/or historical issues relevant to contemporary practice.

Prerequisite: ART 101 or ART 102. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 203 - Printmaking Workshop (3)

Printmaking techniques, with a focus on contemporary developments in printmaking media. Theoretical and/or historical issues relevant to contemporary practice.

Prerequisite: ART 100 and ART 103 Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 204 - Watercolor (3)

Materials, tools, and visual resources of watercolor painting. Fundamental techniques including glazing, wet-on-wet, and wet-on-dry procedures. Color-theory as it applies to the discipline; history of watercolor painting.

Prerequisite: ART 100. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 205 - Painting (3)

Technical skills and abstract principles involved in organizing composition, creating spatial illusion, and defining form. Historical and contemporary trends in painting.

Prerequisite: ART 100 and ART 105. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 206 - Sculpture (3)

Formal ideas pertaining to balance, sequence, and visual dynamics. Exploration of principles and communication-potential of various materials.

Prerequisite: ART 100 and ART 106. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 207 - Ceramics II (3)

Wheel-throwing methods and historical movements re-defining the use of the wheel. Structural demands and technical constraints of stoneware and porcelain clay bodies. Creation of simple wheel-thrown forms, including cylinders, bowls, mugs, and plates. Design and decorative techniques, including engobes, wax resist, underglazing and glazing.

Prerequisite: ART 107. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 208 - Photography (3)

Camera-use, lighting, developing, printing, and enlarging. Emphasis on creative approaches. History and tradition of analog materials, including development techniques such as photograms and pinhole photography.

Prerequisite: ART 108. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 209 - Relativity of Color (3)

Fundamentals of the relativity of color as applied to visual art. Recommended for art majors, particularly in the painting concentration.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 212 - Two-Dimensional Design for Digital Media (3)

Digital tools for the design and production of two-dimensional graphics and type for the printed page and electronic media. Emphasis on the principles of typography. Overview of the history of graphic design and reproduction.

Prerequisite: ART 102 and ART 112. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 221 - Applied Imaging and Applications to the World Wide Web I (3)

Concepts and techniques underlying the World Wide Web. Image processing and two dimensional graphics as methods to produce material for the World Wide Web. Emphasis on the artistic, mathematical and computer science underpinnings of these topics.

Prerequisite: ART 112 Cross-Listed as: LEH ART 221/CGI 221. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 222 - Introduction to Animation (3)

The theory and practice of animation using traditional and digital techniques.

Prerequisite: PRE or COREQ: ART 112 or the successful completion of any 100-level art course. Cross-Listed as: LEH CGI 222 / ART 222. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ART 223 - Drawing for Animation (3)

Fundamentals of drawing in time-measured contexts and media, the mechanics of motion in sequential drawing and examination of works of master animators.

Prerequisite: ART 100 Requirement Designation: Regular Non-Liberal Arts.

ART 226 - Mechanical Drawing (3)

A survey of the practical application and an exploration of the creative possibilities of drawing with mechanical drafting instruments. PREREQ: ART 100. A survey of the practical application and an exploration of the creative possibilities of drawing with mechanical instruments.

Prerequisite: ART 100. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 300 - Advanced Drawing (3)

Practice and experimentation with process, content, and thematic focus. Advanced approaches to drawing as a vehicle of personal expression, thought, and creative discourse.

Prerequisite: ART 200. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 301 - Advanced Life Drawing (3)

Historical and contemporary approaches to distortion, foreshortening, multi-figure composition, and value-structures with the human figure.

Prerequisite: ART 201. Cross-Listed as: LEH ART 324/ART 301. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 302 - Advanced Design (3)

Advanced problems in the practices, concepts, and social ramifications of design with emphasis on contemporary developments in form and function. Theoretical and/or historical issues relevant to contemporary practice.

Prerequisite: ART 202. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 303 - Advanced Printmaking Workshop (3)

Development of individual creative vision in printmaking through synthesis of form, concept, technique and awareness of contemporary trends. Theoretical and/or historical issues relevant to contemporary practice.

Prerequisite: ART 203. Cross-Listed as: LEH ART 330/ART 303. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 304 - Advanced Watercolor (3)

Continuation of ART 204.

Prerequisite: ART 204. Cross-Listed as: LEH ART 340/ART 304. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 305 - Advanced Painting (3)

Pictorial representation using oil, acrylics, and related material. Development of ideas and objectives relevant to a self-reflective approach to painting.

Prerequisite: ART 205. Cross-Listed as: LEH ART 350/ART 305. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 306 - Advanced Sculpture (3)

Exploration of context, process, psychology, and the aesthetics of the object. Principles of organization in relation to various forms of art; experimentation and individuality in theory and practice in contemporary art.

Prerequisite: ART 206. Cross-Listed as: LEH ART 360/ART 306. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 307 - Ceramics III (3 (maximum 12 credits))

Comparative analysis of utilitarian and non-functional wheel-thrown objects. Contemporary theorization about the nature, motivations for, and uses of ceramic creation. Development of design and technical skills to produce complex objects; series and production techniques; documentation of various clay and glaze tests.

Prerequisite: ART 207. Cross-Listed as: LEH ART 354/ART 307. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 308 - Advanced Black-and-White Photography (3 (maximum 12 credits))

Application and aesthetic analysis of the silver print. Fine printing techniques, alternate photographic techniques, toning, multiple printing, solarization, and final presentation methods.

Prerequisite: ART 208. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 310 - Portraiture in Painting (3)

Conceptual, perceptual and technical processes of portraiture. Advanced approaches to the various media used to create form, structure, likeness and composition. The social and aesthetic impact of the portrait throughout history.

Prerequisite: ART 105 and ART 201. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 312 - Advanced Two-Dimensional Design for Digital Media (3 (maximum 6 credits))

Emphasis on two-dimensional design projects for production. Completion of a professional portfolio of projects suitable for presentation.

Prerequisite: ART 212. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 313 - The Artist's Multiple (3)

Examination of artistic multiples, ready-mades, mass production, and limited editions. Demonstrations in traditional, experimental, and digital print techniques. Print theory and how multiples may relate to a variety of studio art and digital practices.

Prerequisite: Declared Art Major; completion of one 200-level Studio Art course Declared Art Major; completion of one 200-level Studio Art course. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 317 - Advanced Ceramic Techniques (3)

Essential clay and glaze materials. Effects of heavy metals, stains, and metallic lustres on clays and glazes. Experimentation with body stains, Terra Sigillata,

underglazes, and decals, as well as various firing techniques and temperatures. Development of personal color palette and surfaces.

Prerequisite: ART 107. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 318 - The Fine Print (3 (maximum of 6 credits))

Composing with light and color, understanding color-space and printer profiles; post production, camera-raw editing, archival preparation of prints for storage and display.

Prerequisite: ART 108. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 321 - Computer Modeling and Design I (3)

An introduction to the theory and practice of three-dimensional modeling. Topics include primitive objects, transformations, curve creation and manipulation, symmetries, texture maps, and basic rendering.

Prerequisite: PREREQ: ART 112. Cross-Listed as: LEH ART 321/CGI 321. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ART 322 - Computer Modeling and Design II (3)

Advanced techniques in three-dimensional modeling. Topics include organic forms and figures, advanced rendering and texture mapping.

Prerequisite: ART 321 or CGI 321. Cross-Listed as: LEH ART 322/CGI 322. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ART 323 - Advanced Drawing for Animation (3 (may be repeated for up to a maximum 9 credits))

Advanced two-dimensional animation production techniques and creative workflows.

Prerequisite: ART 223 Requirement Designation: Regular Non-Liberal Arts.

ART 325 - Digital Multimedia (3)

Multimedia projects in the digital realm, including digital audio, digital video, and interactivity.

Prerequisite: PREREQ: ART 112. Cross-Listed as: LEH ART 325/CGI 325. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ART 327 - Ceramic Sculpture (3 (maximum 9 credits))

Figurative, architectural, site-specific, and conceptual exploration in clay. Historical and contemporary references in conjunction with contemporary technology. Personal, technical, and conceptual development. Critical analysis and peer reviews.

Prerequisite: ART 107 and ART 207. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 328 - Studio Photography (3 (maximum 9 credits))

Fundamental techniques of studio photography; art and physics of lighting; image processing and printing; view camera handling; contemporary principles and theories of studio photography; scheimpflug principle, inverse square rule of light; and photographic lighting techniques.

Prerequisite: ART 208. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 334 - Digital Media Production: Theory and Practice (3 (may be repeated twice))

Concepts and techniques underlying the theory of transmedia storytelling. Hands-on development of the core technical skills related to the creation and distribution of digital content.

Cross-Listed as: LEH CGI 334 / ART 334. Requirement Designation: Regular Liberal Arts.

ART 335 - Digital Media Production: Advancing the Narrative (3 (may be repeated twice))

Project-driven course focused on production, marketing and brand building. Content creation and development of technical skills in video, creative writing and graphics for print, web and social media platforms.

Cross-Listed as: LEH CGI 335 / ART 335. Requirement Designation: Regular Liberal Arts.

ART 336 - Advanced Stop Motion Animation (3)

Advanced exploration of hands-on, traditional, and experimental stop-motion animation techniques.

Prerequisite: ART 222 Requirement Designation: Regular Non-Liberal Arts.

ART 350 - Variable Topics in Studio Art (3 (maximum 9 credits))

A variable topics course to be presented in specific areas not currently covered by existing course offerings. Possible topics might include botanical illustration; animal sculpture; architectural rendering, etc.

Prerequisite: Any 200-level course in a related skills area (e.g., painting, sculpture, computer imaging). Cross-Listed as: LEH ART 350/ART 305. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 355 - Sem In Contemporary Art (3)

Contemporary art and the primary components of today's art practice through lectures, research, discussion, essays and curatorial exercises. Off campus visits to galleries, museums, artists', studios, and talks with working artists, critics, curators and other arts professionals.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 358 - Field Methods in Photography: Variable Topics (3 (maximum of 9 credits))

Training in professional documentary image-preparation with digital editing techniques; preparation of texts for publication.

Prerequisite: ART 108. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 421 - Computer Animation I (3)

Introduction to computer animation including keyframes, hierarchical animation, morphing, textures, cameras, and lighting.

Prerequisite: ART 321 or CGI 321. Cross-Listed as: LEH ART 421/CGI 421. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ART 422 - Computer Animation II (3)

Advanced techniques in computer animation including character rigging and effects.

Prerequisite: ART 421 or CGI 421. Cross-Listed as: LEH ART 422/CGI 422. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ART 441 - Broadcast Design (3)

Creation of sophisticated title sequences, TV show packaging and on-air promotions to be used as part of video and film production.

Prerequisite: ART 325 or CGI 325. Cross-Listed as: LEH ART 441/CGI 441. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ART 451 - Topics in Computer Imaging (3 (maximum 6 credits).)

For specific topics and sections, consult the department.

Cross-Listed as: LEH ART 451 or CGI 451. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 480 - Senior Project (3)

Advanced projects in the field of computer imaging under faculty guidance.

Prerequisite: Departmental permission. Cross-Listed as: LEH ART 480/CGI 480. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 481 - Independent Study in Computer Imaging (3)

Independent study on a specific topic under faculty supervision.

Prerequisite: Departmental permission. Cross-Listed as: LEH ART 481/CGI 481. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 486 - Independent Study (1–3 credits (maximum 9 credits). Limit one course (up to 3 credits) per semester.)

Special projects in art that require work outside the framework of existing classes. To be supervised by a member of the faculty. Students must file applications with the Art Department the semester preceding registration.

Prerequisite: Declared art major.

ART 487 - Professional Experience in the Fine Arts (3 (maximum 6 credits).)

On-the-job training in a public or private arts institution.

Prerequisite: Prior approval of the undergraduate studio advisor; declared Art major with a minimum of twenty-four credits in the major (B.A.) or thirty-six credits in the major (B.F.A). Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 488 - Professional Practices in the Visual Arts (3)

Strategies for establishing a long-term art practice; documenting and preparing artworks for exhibition; developing statements, proposals and agreements.

Prerequisite: PREREQ: Declared Art major with a minimum of thirty-six credits in the major. Requirement Designation: Regular Non-Liberal Arts.

ART 494 - Bachelor of Fine Arts Thesis I (3)

Special projects in or related to the student's major specialization.

Prerequisite: Nine credits in major area of specialization. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ART 496 - Bachelor of Fine Arts Thesis II (3)

Special projects in or related to the student's major specialization.

Prerequisite: ART 494. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

AST - Astronomy**AST 101 - Introduction to Astronomy (3)**

Basic exploration of the science of astronomy and what it has taught us about our place in the universe. Topics include the history of astronomy, scales of the universe, the night sky, the moon, planets of the solar system, the Sun, Earth as an astronomical body, and life in the universe.

Requirement Designation: Flexible Core - Scientific World. Offered: Fall-Spring.

AST 102 - Introduction to the Universe (3)

An exploration of the important phenomena that influence our universe on the largest scales. Includes the lifecycles of stars,

galaxy formation and dynamics, the Big Bang, and cosmology.

Requirement Designation: Life and Physical Science.

AST 117 - Astronomy of Stellar Systems (4)

Exploration of our universe covering basic properties of stellar systems, including planetary systems, stars, stellar evolution and remnants, galaxies and cosmology.

Requirement Designation: Life and Physical Sciences or Scientific World. Offered: Fall-Spring.

AST 136 - Astronomy of the Solar System (4)

The sun and its planets, satellites, and comets. Laws of motion and gravitation. Techniques of astronomical observation.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AST 137 - Solar Astronomy (3)

The sun and its planets, satellites, and comets. Laws of motion and gravitation. Techniques of astronomical observation.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AST 180 - General Astronomy I (3)

Solar and stellar astronomy.

Prerequisite: One year of physics. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AST 181 - General Astronomy II (3)

Astrophysics, relativity, and modern cosmology.

Prerequisite: PREREQ: AST 180. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

AST 306 - Astrophysics (3)

Selected topics from celestial mechanics and stellar dynamics; stellar energy sources, pulsars, quasars, black holes, and relativistic cosmology.

Prerequisite: MAT 175; either PHY 167 or PHY 169; PHY 241 recommended but not required. Cross-Listed as: LEH AST 306/PHY 306. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BBA - Business Administration

BBA 168 - Macroeconomic Foundations of Business (3)

Application of macroeconomics concepts to managerial performance: gross domestic product; consumption and saving; investment and production; economic policy in face of inflation and unemployment; business cycles; money supply; interest rates; globalization; and macroeconomic forecasting.

Prerequisite: ECO 166 anti-requisite Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 169 - Microeconomic Foundations of Business (3)

Application of microeconomic concepts to managerial problems: scarcity; choice; supply; demand; production; cost; competition; monopoly; present value; decision-making under risk; game theory; market failures; asymmetric information; and moral hazard.

Prerequisite: ECO 167 anti-requisite Requirement

Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 204 - Principles of Management (3)

Basic management concepts involving the theory and practice of attainment of organizational goals through planning, organizing, leading and controlling organizational resources.

Cross-Listed as: LEH BBA 304/BBA 204. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 207 - Principles of Finance (3)

Functions of financial markets and institutions, financial statement analysis, primary business structures, understanding of financing, dividend, and investment decisions, time value of money, investment decision rules and discounted cash flow valuation.

Prerequisite: BBA 168 and BBA 169 or ECO 166 and ECO 167, ACC 171. Cross-Listed as: LEH BBA 307/BBA 207. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 231 - Real Estate Investment and Management (3)

Real estate acquisition, development and management, as well as budgeting and financing of a real estate property.

Requirement Designation: Regular Liberal Arts.

BBA 267 - Management of Health Organizations (3)

Fundamental concepts of management theory. Examination of the structure of health organizations and administrative processes such as planning, problem solving and decision making, and quality and productivity improvement. Emphasis on the major issues and problem areas confronting health administrators.

Cross-Listed as: LEH HSA 267 / BBA 267. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 301 - Human Resources Management and Labor Relations in Health Services (3)

Analysis of the challenges and conflicts inherent in managing human resources in health services organizations. Examination of policy formulation, recruitment, selection, training and development, wage and salary administration, motivation, and labor relations.

Prerequisite: HSA 267/BBA 267 or Department permission.

Cross-Listed as: LEH HSA 301 / BBA 301. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 302 - Legal Issues in Health Care (3)

An examination of the legal issues related to providers and consumers of health services. Application of legal doctrines to health care settings. Some topics include: negligence liability, malpractice, risk management, abortion, and other contemporary legal issues.

Cross-Listed as: LEH HSD 308 / BBA 302. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 303 - Business Statistics I (3)

Analyze business data using descriptive statistics, probability theory and statistical inference, measures of central tendency, dispersion, associations, discrete and continuous probability distributions and hypothesis testing.

Prerequisite: MAT 132 or MAT 171 or MAT 172 or MAT 174 or MAT 175. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 304 - Principles of Management (3)

An introduction to the theory and practice of planning, organizing, and controlling the physical, financial, and informational resources of an organization, with a special emphasis on motivating and leading the human resource component.

Cross-Listed as: LEH BBA 304/BBA 204. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BBA 305 - Consumer Economics (3)

Financial decision-making strategies in education, health, careers, housing, credit, insurance, and investment from the point of view of the consumer and family.

Prerequisite: BBA 168 and BBA 169 or ECO 166 and ECO 167. Cross-Listed as: LEH BBA 305/ECO 305. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BBA 306 - Financial Aspects of Health Care Administration (3)

Examination of the major issues related to the financing of health services, including budgeting, cost containment, reimbursement policies, and financial strategies. Overview of the major trends affecting financial management of health institutions.

Prerequisite: HSA 267/BBA 267; HSA 268 or HSA 312/BBA 312; ACC 171 or ACC 185. Cross-Listed as: LEH HSA 304 / BBA 306. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 307 - Principles of Finance (3)

Basic concepts of finance. Includes financial environment of the US economy, basic tools of financial analysis, and managerial finance topics.

Cross-Listed as: LEH BBA 307/BBA 207. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BBA 308 - Corporation Finance (3)

Analysis of cost of capital, methods to raise equity and debt, capital structure theory, dividend payout policy, financial modeling and financial planning.

Prerequisite: BBA 207 and MAT 171 or MAT 172. Cross-Listed as: LEH ECO 312/SOC 312/BBA 308. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 310 - Security and Investment Analysis (3)

Risks of different securities using advanced principles of portfolio theory and computation and evaluation of investment performance. Applications of theoretical concepts to evaluate or conduct portfolio management.

Prerequisite: BBA 207 and MAT 171 or MAT 172. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 312 - Managed Health Care (3)

Comprehensive overview of basic concepts of managed health care, including types of managed care organizations, use of data and reports in utilization and quality management, Medicaid and Medicare managed care, and other critical issues.

Prerequisite: HSD 266 and HSA 267/BBA 267. Cross-Listed as: LEH HSA 312 / BBA 312. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BBA 324 - International Economics: Theory of international relations (3)

Trade, investment, growth, balance of payments, currency values, and policy issues; trade restrictions, common markets, multinational firms, imperialism, and international monetary reform.

Prerequisite: BBA 168 and BBA 169 or ECO 166 and ECO 167. Cross-Listed as: LEH ECO 324/BBA 324. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BBA 326 - Labor Economics (3)

History and present status of organized labor force and trade unions; collective bargaining; unemployment and labor income; wage rates, and working conditions; and government regulations of industrial relations.

Prerequisite: BBA 168 and BBA 169 or ECO 166 and ECO 167. Cross-Listed as: LEH BBA 326/ECO 326. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BBA 327 - Organizational Behavior and Development (3)

Human behavior in the organizational setting; the interface between human behavior and organizational performance; structures and processes characteristic of organizations themselves; ethical issues emerging in the management of human resources; development of human resources toward the attainment of organizational as well as individual goals.

Prerequisite: BBA 204. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 328 - Human Resource Management (3)

Emphasis of the managerial approach to the employment of human resources. Large-scale enterprise and managerial goals, economic and social matrix for hiring and developing human resource inputs, and collective bargaining.

Prerequisite: BBA 204. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 329 - Labor Relations (3)

An overview of current labor laws and policies; the legal requirements for employers and labor organizations; and negotiation and implementation of employment agreements, including collective bargaining.

Prerequisite: BBA 204. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BBA 332 - Marketing Management (3)

Nature and functions of marketing; marketing environment, consumer motivation and behavior; marketing institutions at the wholesale and retail levels; market research, product planning, pricing policies, sales management and promotion; and government regulation.

Prerequisite: BBA 204. Cross-Listed as: LEH ECO 332/BBA 332. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 333 - E-Business (3)

External and internal factors affecting E-Business, designing a database and creating a value chain, quality and safety issues, impacts on E-Business design on enterprise risks and opportunities, impacts of E-business on industrial, social, legal, and cultural environments; the global nature of E-Business.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 336 - Business Law I (3)

Fundamentals of legal liability. Federal and New York State court systems; the attorney-client relationship. Principles of the law of contracts, sales, product liability, and agency.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 337 - Business Law II (3)

The law of partnership, corporations, and other business organizations. Personal property, secured transactions, and commercial paper as treated under the Uniform Commercial Code. The landlord-tenant relationship.

Prerequisite: BBA 336. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 338 - Foundations of Business Leadership (3)

Introduces and explores leadership concepts in a business context.

Requirement Designation: Regular Non-Liberal Arts.

BBA 339 - Commercial Transactions (3)

Key topics from the Uniform Commercial Code concerning mercantile transactions: sales and leases; commercial paper; bank deposits, collections, and funds transfers; letters of credit; secured transactions.

Prerequisite: BBA 336 Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 340 - Internet Law (3)

Effect of laws on the content provided by E-Business platforms and on consumers' access to the Internet; impact of E-Business on contract laws and agreements; the determination of what information is public and what is private; current laws concerning copyright, privacy, advertising, and censorship and their relation to the materials on the E-Business platform; the effect of trademark law on choice of domain name.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 341 - Marketing Applications in a Digital World (3)

Principles and theories of marketing are applied through the use of digital marketing tools in social media advertising, marketing research, product design, supply chain management and other marketing functions.

Prerequisite: Departmental permission Requirement Designation: Regular Liberal Arts.

BBA 345 - Introduction to Hospitality Management (3)

Theory and practice of hospitality management in global setting and general characteristics of the lodging, food, travel, and recreation industries; special services provided by each segment; relevant principles for planning, organizing, controlling, leading, and motivating the physical, financial, and human resources of hospitality service providers; means of achieving total quality and team performance.

Prerequisite: BBA 204. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 346 - Strategic Hospitality Management (3)

Issues impinging on the long-range development of hospitality industry in face of the individual enterprise's strengths and weaknesses versus industry- and world-wide opportunities and threats. Course content is delivered through case studies, group discussion, and research projects.

Prerequisite: BBA 345. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 347 - Hospitality Management Fieldwork (3)

Hands-on management training through participating employers by departmental preapproval and under the supervision of a designated Fieldwork Coordinator.

Prerequisite: BBA 345 Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BBA 367 - Consumer Behavior (3)

Global, regional, and local dimensions of consumer decision-making; impact of motivation, perception, knowledge, attitudes, and information processing abilities upon the behavior of consumers.

Prerequisite: BBA 332 or BBA 433. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BBA 370 - Internship in Business (3)

One hour of weekly class meetings plus eight to ten hours of supervised internship in a setting where students can combine their academic education in business with work experience in their area of study.

Prerequisite: Departmental permission after student has located and arranged for the internship with an organization. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 385 - Independent Study in Business Administration (3 (may be repeated for a maximum of 6 credits).)

Individual study and research of a specific topic under the supervision of a faculty member.

Prerequisite: BBA 405. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 402 - Research and Program Evaluation in Health Services Administration (3)

Analysis of research techniques and their applications in health care administration. Principles of research design and program evaluation. Emphasis on student involvement in empirical research and evaluation.

Prerequisite: HSD 269, HSD 306, and a minimum of 9 credits in HSD or HSA courses. Cross-Listed as: LEH HSA 402 / BBA 402. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 403 - Intermediate Business Statistics II (3)

Analysis of business data using advanced statistical methods such as basic and multiple regression analysis, F tests, one-way and two-way analysis of variance and chi-square tests.

Prerequisite: BBA 303 or ECO 302. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 404 - Strategic Management: Health Planning in a Competitive Environment (3)

Examination of the issues and techniques relevant to the planning of health delivery systems, with emphasis on marketing approaches in a competitive health care environment.

Prerequisite: A minimum of 18 credits in HSD or HSA courses. Cross-Listed as: LEH HSA 403 / BBA 404. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 405 - Management Decision Making (3)

Individual and organizational factors influencing managerial decision making; optimal rules of choice under different decisional environments; heuristic decision making, selected topics of management science.

Prerequisite: BBA 204 and either ECO 302 or BBA 303. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 407 - Strategic Management (3)

Corporate-level decision-making under different economic conditions, legal institutions, government policies, technological progress, environmental concerns, ethical considerations, and demographic variables. Emphasis on case studies.

Prerequisite: BBA 204 and ACC 171. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 431 - Managerial Economics (3)

The use of economic tools and concepts in making managerial decisions in such areas as allocation of physical and human resources, project development, and organizational restructuring.

Prerequisite: BBA 168 and BBA 169, or ECO 166 and ECO 167, and BBA 204. Cross-Listed as: LEH ECO 431/BBA 431. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BBA 432 - International Business Management (3)

Critical issues in managing multinational organizations: international management skills, cross-cultural negotiations, ethical problems, global human resource management, and the structuring of multinational organizations.

Prerequisite: BBA 204. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 433 - Global Marketing (3)

Theory and practice of global marketing and discussion of the specific factors in that environment affecting organizational performance in terms of strategic planning and organizing for global marketing as well as managerial decisions on global market segmentation, product planning, pricing, distribution,

promotion, and operations. Global market research and data analysis are also covered.

Prerequisite: BBA 204. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 434 - Business Leadership in Action (3)

Examines complexities and responsibilities of leadership in a rapidly changing, international, diverse, and information-based business and social environment.

Prerequisite: BBA 338 Requirement Designation: Regular Non-Liberal Arts.

BBA 466 - Business Consulting (4)

Theory and practice of providing management consulting to businesses. Incorporates use of technology to support and enable business functions.

Prerequisite: ACC 171, ACC 272, ECO 166, ECO 167 and Departmental permission. Requirement Designation: Regular Non-Liberal Arts.

BBA 467 - Marketing Research (3)

A practical approach to the study of research principles and procedures as an important tool of consumer and industrial marketing decisions. Qualitative as well as quantitative techniques are stressed, and these methods are aligned with planning, operation, and controlling aspects of marketing management.

Prerequisite: BBA 303 and BBA 332. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBA 490 - Honors Project in Business Administration (3)

Supervised individual research and directed reading in selected areas of business administration. An honors essay or some other suitable presentation is required.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

BBG - Botany

BBG 111 - Basic Botany (1)

Among the topics covered are: plant cells and tissues, cell division, reproduction, genetics, anatomy, plant diversity and systematics, evolution, water relationships, respiration, photosynthesis, and ecology.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BBG 112 - Plant Form and Function (1)

An introduction to the anatomy and physiology of plant cells and organs. The difference between physiology and anatomy (or morphology) is that physiology is dynamic--concerned with the functions and vital function of organisms--while the

morphologist's concern is primarily geared toward form and structure. Includes laboratory work.

Prerequisite: BBG 111. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BBG 113 - Physiology of Plants (1)

Plant growth and development, hormones, tropisms, phytochrome, dormancy, responses to low temperature, flowering, senescence and abscission, with emphasis on the physiological variations that occur from season to season.

Prerequisite: BBG 112. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BBG 114 - Ecology (1)

The relationship of vegetation study to ecology; the classification and description of forest and wetland communities; the influence of climate, soil, topography, geology, and man on the vegetation. Local flora will be compared with that in other parts of the United States.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BBG 115 - Field Botany (1)

The cryptogams are seedless plants: algae, fungi, mosses, hepatics, lichens, ferns, and fern allies. The recognition and collection of cryptogams for observation in herbariums. Weather permitting, some classes will be field trips in or near the New York Botanical Garden.

Prerequisite: BBG 114. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BBG 116 - Field Botany (1)

Identification of common trees, shrubs, and flowers in the area; naming and basic plant structure; practice in using taxonomic keys of identification. Students are required to make their own personal plant collections.

Prerequisite: BBG 114. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BBG 117 - Evolutionary Biology: Learning to read the fossil record (1)

an introduction to such disciplines as paleoecology, geochemistry, and paleochemotaxonomy. Computer analysis applied to historical biology.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BBG 118 - General Genetics (1)

Specific patterns of gene inheritance by Mendelian and non-Mendelian mechanisms; the use of probability and statistics; the role of DNA-RNA as the code of life.

Prerequisite: BBG 111. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BBG 119 - Paleobotany (1)

A history of the large fossil plant groups and their characters, with emphasis on evolution, ecology, dispersal, paleoclimates, and practical applications.

Prerequisite: BBG 111. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BBG 120 - Morphology of Flowering Plants (1)

The basic structure of flowering plants as viewed by a dissecting microscope for the examination of living flowers of highly specialized structure and with the compound microscope for the observation of anatomical slides. The student will have the opportunity to make botanical illustrations of the dissection specimen.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BBG 121 - Systematic Botany (1)

The principles of classifying plants into species, genus, family, etc. Typical flower structure and modifications that affect classification.

Prerequisite: BBG 111. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO - Biology**BIO 166 - Principles of Biology: Cells and Genes (4)**

Introduction to the principles of biology governing the unity and diversity of living organisms, with special emphasis on molecular, subcellular and cellular levels of organization in plants and animals, and on genetics and evolution. Laboratory exercises consist of experimental procedures illustrating basic concepts of biology.

Requirement Designation: Life and Physical Sciences or Scientific World. Offered: Fall-Spring.

BIO 167 - Principles of Biology: Organisms (4)

Introduction to the principles of biology governing the unity and diversity of living organisms, with special emphasis on biological diversity, physiological mechanisms involved in the coordination of activity in plants and animals, and ecology. Laboratory exercises consist of experimental procedures illustrating basic concepts of biology.

Requirement Designation: Life and Physical Sciences or Scientific World. Offered: Fall-Spring.

BIO 173 - Concepts of Human Biology (3)

Survey of the structure and function of the human body with emphasis on concepts and current issues in human biology.

Requirement Designation: Life and Physical Sciences. Offered: Fall-Spring.

BIO 175 - Explorations in Biology Media (3)

Fundamental biological concepts and communication of those and other complex scientific ideas to the public using a variety of multimedia digital platforms. Evaluate scientific claims using quantitative literacy skills; explore how science informs policy making; and, assess how the impact of science on society influences life in the U.S. and globally.

Requirement Designation: Regular Liberal Arts.

BIO 181 - Anatomy and Physiology I (4)

(Open only to students majoring in Nursing; Dietetics, Foods, and Nutrition; Health Education; and Biology. Students majoring in Biology who have completed Bio 181 and Bio 182 can use those courses in place of Bio 228). Study of human anatomy and physiology. Lecture topics include cell structure and function, tissues, and the study of the skeletal, muscular, nervous, and endocrine systems. Laboratory exercises complement the lecture material with the use of a workbook, models, and animal preparations.

Requirement Designation: Life and Physical Sciences or Scientific World. Offered: Fall-Spring.

BIO 182 - Anatomy and Physiology II (4)

Continuation of BIO 181. Lecture topics include the cardiovascular, respiratory, digestive, renal, endocrine, and reproductive systems. Emphasis is given to the physiological functioning of these systems.

Prerequisite: BIO 181. Requirement Designation: Life and Physical Sciences or Scientific World. Offered: Fall-Spring.

BIO 183 - Human Biology (4)

(closed to students majoring in Biology). Introduction to the structure and function of the human body, with emphasis on the physiological mechanisms in health and disease. Topics include: the molecules of life; cells and tissues; the skeleton; muscles; the heart; blood; skin; the eye; the ear; reproduction theory; brain; genetics; infectious disease; the immune system; cancer; nutrition.

Requirement Designation: Life and Physical Sciences or Scientific World. Offered: Fall-Spring.

BIO 184 - Plants and People (4)

(closed to students majoring in Biology). Introduction to the world of plants, with emphasis on the interactions and interdependency of plants and people.

Prerequisite: BIO 166 and BIO 167 (or equivalents).

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 189 - Introduction to Experimental Biology (1)

Introduction to experimental methods in biological sciences. This course does not count towards the biology major or minor.

Requirement Designation: Regular Liberal Arts.

BIO 226 - Human Physiology (3.5)

(Closed to students majoring in Biology.) Study of human anatomy and physiology, with emphasis on the integration and regulation of physiological processes. Laboratory work illustrates the principles discussed in the lectures.

Prerequisite: BIO 166 and BIO 167. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 227 - Mammalian Histology (4)

Microscopic study of cells, tissues, and organs from prepared slides-with emphasis on the correlation between structure and function. Recent advances grounded in electron microscopy and histochemistry are discussed.

Prerequisite: BIO 166 and BIO 167. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 228 - Mammalian Physiology (4)

Study of the basic principles of mammalian physiology. Various organ systems will be presented to illustrate their mechanisms of operation, their nervous and hormonal control, and their interrelationships with other organ systems in maintaining homeostasis. Emphasis will be given to the cardiovascular, neuromuscular, renal, and respiratory systems.

Prerequisite: BIO 166 and BIO 167 and CHE 168 and CHE 169. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 230 - Microbiology (4)

(Open only to students majoring in Nursing; Dietetics, Foods, and Nutrition; Health Education; and Physical Education.) A survey of microbes and their structure, chemical composition, cultivation, ecology, and metabolism; special emphasis on applied aspects (infectious diseases and human resistance, food and industrial microbiology, biotechnology).

Prerequisite: Two semesters of 100-level biology. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 238 - Genetics (4)

Basic principles of genetics and modern developments in the field, with their theoretical and practical implications: the inheritance, structure, and mode of action of the genetic material in microorganisms, plants and animals, including man. Laboratory work consists of preparation and examination of chromosome material and experiments with segregating characters in a variety of organisms.

Prerequisite: BIO 166 and BIO 167. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 240 - Biostatistics (3)

Data analysis and construction of tables, figures and paragraphs suitable for publication in biological journals. Experimental design informed by power analysis of preliminary data. Introduction to randomization, bootstrap and Monte Carlo in biological research; and coverage of traditional topics in biostatistics. Computer programming of biological algorithms in JSL (SAS) and R.

Prerequisite: BIO 166 and BIO 167 and MAT 175. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 241 - Evolution, Species, and Biogeography (3)

This course will explore the three major themes of Evolution, Species, and Biogeography from their historical antecedents to modern ideas. The course will provide the student with a full understanding of the ideas that shape current thinking in organismic biology and advance the dialogue in systematics, ecology, biodiversity, and conservation. The structure of the course will be a web based asynchronous course, which will lead the student to the discovery of ideas based on extensive but guided readings and interpretation of key primary and secondary literature on the three interrelated themes. Important guiding ideas will be presented in forum format in which the student will be an active participant. Guiding principles will include the notion of the biological species concept and that the species has a unique ecological role and longevity, and may occupy a specific geographic region. This concept will be linked to the evolutionary ideas of descent with modification, monophyletic taxa, and the attempt to understand both the current and historic distribution of the world's flora and fauna. At least two models, dispersion and vicariance, will be used.

Prerequisite: BIO 166 and BIO 167. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 242 - Flowering Plants (4)

Identification and classification of flowering plants by the use of manuals. The characteristics and evolutionary position of selected families, including a discussion of economically important plants. Laboratory work is supplemented by field trips.

Prerequisite: BIO 166 and BIO 167. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 244 - Growth and Development of Lower Plants (4)

Algae, fungi, liverworts, and mosses are cultured and studied macroscopically and microscopically through all phases of their life cycles. Emphasis is on growth and differentiation, reproductive processes, and the phylogenetic interrelationships among groups. Laboratory work will be supplemented by field trips.

Prerequisite: BIO 166 and BIO 167. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 246 - Growth and Development of Higher Plants (4)

Vegetative and reproductive structures of primitive tracheophytes, gymnosperms, and angiosperms are studied in living, cultured, preserved, and fossilized materials in an attempt to trace the growth and phylogenetic development of these groups. Laboratory work will be supplemented by field trips.

Prerequisite: BIO 166 and BIO 167. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 267 - Comparative Anatomy of Vertebrates (4)

Evolution of chordates, with emphasis on comparative anatomic, functional, and developmental aspects of vertebrate organ systems. Laboratory dissections of representatives of each of the vertebrate classes will be performed.

Prerequisite: BIO 166 and BIO 167. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 268 - Vertebrate Embryology (4)

Experimental studies and modern theories of development. Laboratory study of the frog, chick, and mammal.

Prerequisite: BIO 166 and BIO 167. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 269 - The Biology of Insects (4)

Anatomy, behavior, classification, ecology, and physiology of insects. The laboratory will include field trips and projects.

Prerequisite: BIO 166 and BIO 167. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 270 - Invertebrate Zoology (3)

Anatomy and natural history of invertebrates. Evolutionary relationships and functional problems presented by the environment and the mechanisms by which they are solved.

Prerequisite: BIO 166 and BIO 167. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 271 - Invertebrate Zoology Laboratory (2)

Techniques used in the study of invertebrates

Prerequisite: PREREQ: BIO 166 and BIO 167. PRE OR COREQ: BIO 270. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 302 - Biogeography (4)

Analysis of origin, distribution, adaptation, and association of plants and animals. Development of living communities considered particularly in space but also in time. Stress placed on broad distributional relationships.

Prerequisite: BIO 166 and BIO 167 and one BIO course at 200 level or above (NOT BIO 230). Cross-Listed as: LEH

BIO 302/GEP 302. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 303 - Molecular Genetics (4)

Gene structure, organization, and expression. Experimental methods used for studying genes and their products.

Prerequisite: BIO 166 and BIO 167 and one BIO course at 200 level or above (NOT BIO 230). Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 311 - Parasitology (3)

The study of parasitic organisms, their life cycles, the diseases they cause, and the treatments of these diseases in humans.

Prerequisite: BIO 166 and BIO 167 and one BIO course at 200 level or above. Corequisite: BIO 312. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 312 - Parasitology Laboratory (2)

Microscopic identification of life cycle stages of parasites. Diagnostic testing of animal parasites covered in BIO 311.

Prerequisite: BIO 166 and BIO 167, and one BIO course at the 200 level or above. Corequisite: BIO 311. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 320 - Neural Development: From Genes and Cells to Brains (3)

Embryonic development of the nervous system of vertebrates and selected invertebrates. Emphasis on the processes of neurulation, neurogenesis, and axon growth.

Prerequisite: BIO 166 and BIO 167 and one BIO course at 200 level or above (NOT BIO 230). Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 321 - Neural Development Laboratory (2)

Molecular and cellular techniques used in the study of the embryonic development of the nervous system.

Prerequisite: BIO 166 and BIO 167. Corequisite: BIO 320. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 330 - Plant Physiology (4)

Consideration of the major physiological processes of plants, with special emphasis on water relations, inorganic nutrition, photosynthesis, metabolism, and hormonal relationships. Laboratory studies consist of physiological experiments with living plants.

Prerequisite: BIO 166 and BIO 167 and one BIO course at 200 level or above (NOT BIO 230) and CHE 234 and CHE 235. Cross-Listed as: LEH BIO 340/BIO 330. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 331 - Experimental Microbiology (4)

Consideration of major groups of microorganisms with emphasis on metabolic activities, chemical composition,

ultrastructure, genetics, ecology, and phylogenetic relationships. Basic and advanced microbiological techniques.

Prerequisite: BIO 166 and BIO 167, BIO 238 and CHE 168 and CHE 169 and CHE 232 and CHE 233. Requirement Designation: Regular Liberal Arts.

BIO 332 - Advanced Oceanography (3.5)

Interaction between the geologic and biotic elements of the oceans and their basins. Emphasis is on correlating the broad spectrum of approaches in modern oceanography. CUNY oceanographic facilities will be used. Field experience.

Prerequisite: (BIO major): BIO 166 and BIO 167, either GEO 166 or GEO 168, and either CHE 114 or CHE 166 and CHE 167. (GEO major): Either GEO 166 or GEO 168, GEO 167, either BIO 166 or BIO 167, and either CHE 114 or CHE 166 and CHE 167. Cross-Listed as: LEH BIO 332/GEO 332. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 333 - Endocrine Physiology (4)

Endocrinology history and current research. Analysis of interactions between genes and environment affecting chemical communication; ethical issues related to synthetic hormone use and manufactured chemicals.

Prerequisite: BIO 166 and BIO 167 and one BIO course at 200 level or above (NOT BIO 230). Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 336 - Marine Biology Lectures (3)

Current concepts in estuarine, marine and littoral ecology, including how organisms deal with the unique physical and chemical characteristics imposed by these environments.

Prerequisite: BIO 166 and BIO 167 and one BIO course at 200 level or above (NOT BIO 230). Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 337 - Marine Biology Laboratory (2)

Laboratory and field work stressing techniques useful in basic environmental analysis, community analysis, and population dynamics of marine and estuarine organisms.

Prerequisite: PREREQ: BIO 166 and BIO 167. PRE OR COREQ: BIO 336. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 338 - Genetics of Man (4)

Principles of human genetics and their significance in the health sciences. The relationship between genetics and human diseases. Lecture topics include: chromosomal and genetic abnormalities in humans, metabolic variation and disease, patterns of human heredity, immunogenetics, population genetics, genetic counseling. Laboratory work includes karyotype analysis, study of biochemical and morphologic

variation, probability and statistical testing, immunogenetics. Open to biology majors only.

Prerequisite: BIO 166 and BIO 167 and BIO 238.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 339 - Ecology (4)

Introduction to the factors comprising biotic communities, with special emphasis on the properties of populations and communities. Laboratory and fieldwork stress techniques useful in basic environmental and community analyses.

Prerequisite: BIO 166 and BIO 167 and one BIO course at 200 level or above (NOT BIO 230). Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 340 - Human Body and Brain (3)

Human anatomy and physiology with emphasis on the brain's role in regulating body functions.

Prerequisite: BIO 166 and BIO 167 and one BIO course at 200 level or above (NOT BIO 230). Cross-Listed as: LEH BIO 340/BIO 330. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 341 - Human Body and Brain Laboratory (2)

Laboratory focused on anatomical structures of the body organs and the brain.

Prerequisite: BIO 166 and BIO 167. Corequisite: BIO 340. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 350 - Introduction to Immunology (4)

This course will focus on the comprehension, application, and synthesis of important immunology concepts. This course is an introductory course that which will examine both normal and disease states of the immune system. The course will use current and traditional research techniques in the lab to emphasize what is learned in the lecture.

Prerequisite: BIO 166 and BIO 167 and BIO 238.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring-Summer.

BIO 400 - Biological Chemistry (4)

Stress on the central role of nucleic acids and proteins in living cells: biological oxidation and intermediary metabolism of carbohydrates, lipids, and proteins, and the general properties of enzymes and enzyme catalyzed reactions in the intact cell and cell-free systems. Laboratory work stresses use of modern techniques used in biochemical analysis and in enzyme assays. Selected experiments to demonstrate the dynamic aspects of biochemistry in living cells and in cell-free systems.

Prerequisite: BIO 166 and BIO 167 and two BIO course at 200 level or above (NOT BIO 230) and CHE 234 and CHE

235. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 401 - Biological Systematics (4)

A study of the theoretical basis and methodologies of each of the current schools of systematics, and the arguments used by each school in uncovering the phylogenetic relationships among organisms. Topics to be covered will include Aristotelian essentialism, evolutionary systematics, phenetics, cladistics (phylogenetic systematics), transformed (pattern) cladistics, monophyly, paraphyly, polyphyly, parsimony, homology, homoplasy, character state analysis, and polarity.

Prerequisite: BIO 166 and BIO 167 and two BIO course at 200 level or above (NOT BIO 230). Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 404 - Plant Biochemistry (4)

Biochemical activities of plants, including photosynthesis, respiratory pathways, sulfate and nitrate reduction, and cell-wall metabolism will be discussed. The biosynthesis by plants of drugs of pharmacological significance such as alkaloids and vitamins will also be considered. Laboratory work will include techniques for fractionating plant cells and isolating intermediates and products' metabolic pathways.

Prerequisite: BIO 166 and BIO 167 and two BIO course at 200 level or above (NOT BIO 230) and CHE 234 and CHE 235. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 406 - Biochemistry of Differentiation (3)

The regulatory mechanisms controlling the changing of cells from a pre-existing condition to one of increased complexity and specialization will be considered. Evidence for biochemical interaction between the nucleus and cytoplasm in normal, hybrid, and cancer cells will be presented, and hypotheses suggested by specific experiments discussed.

Prerequisite: BIO 166 and BIO 167 and one BIO course at 200 level or above (NOT BIO 230) and BIO 238 and CHE 234 and CHE 235. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 410 - Cell Physiology and Biochemistry (4)

Consideration of structure in relation to function in the intact cell system. Metabolic regulation and the properties of cell membranes, the cytoplasm, the nucleus, and the genes are discussed in terms of some of the integrated activities of the living cell, including permeability, active transport, excitation, conduction, contraction, differentiation, and aging.

Prerequisite: BIO 166 and BIO 167 and two BIO course at 200 level or above (NOT BIO 230) and CHE 234 and CHE 235. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 411 - Principles of Virology (2)

Introduction to the science of virology, the structure and function of viruses, their lifestyle, their evolved pathways, and their positive as well as negative effects on human population.

Prerequisite: BIO 166, BIO 167, BIO 238, and BIO 331.

Requirement Designation: Regular Liberal Arts.

BIO 415 - Medical Microbiology (4)

The course will focus on disease mechanism, antibiotic and antiviral susceptibility and resistance, and epidemiology of primarily human diseases caused by bacteria, viruses and fungi as well as by those caused by emerging diseases.

Prerequisite: BIO 166, and BIO 167, and BIO 238, and BIO 331, and CHE 166 and CHE 167 and CHE 168 and CHE 169 and CHE 232 and CHE 233. Requirement Designation: Regular Liberal Arts.

BIO 420 - Molecular Biology (4)

Discussion of structure and function of nucleic acids and proteins and their synthesis in vivo and in vitro. Basic concepts in molecular genetics are studied, with special emphasis on the molecular architecture of the gene, its action, and regulations in bacteria and bacteriophages. Laboratory experiments include techniques for isolation and quantitation of nucleic acids from cells, use of the cell-free synthesizing systems, and basic procedures in microbial genetics.

Prerequisite: BIO 166 and BIO 167 and BIO 238 and CHE 234, and CHE 235, and either BIO 400 or CHE 444.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 425 - Ichthyology (3)

Life histories of fishes including a study of the mathematical and statistical methods for the treatment and evaluation of data relevant to the field of fisheries science.

Prerequisite: BIO 166 and BIO 167 and two BIO courses at 200 level or above (NOT BIO 230). Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 426 - Ichthyology Laboratory (2)

Laboratory and field work stressing techniques useful in basic fish anatomy, community analysis, population dynamics, and statistical modeling of data relevant to fisheries science.

Prerequisite: PREREQ: BIO 166 and BIO 167. PRE OR COREQ: BIO 425. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 431 - Comparative Animal Physiology (4)

Comparative aspects of cellular and organ physiology, the evolutionary basis for development of homeostatic mechanisms, and structure-function correlation within the animal kingdom. Laboratory work includes the use of modern

techniques to elucidate and illustrate the principles discussed in the lectures.

Prerequisite: BIO 166 and BIO 167 and two BIO courses at 200 level or above (NOT BIO 230) and CHE 234 and CHE 235. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 432 - Biological Fine Structure (3)

Detailed description of cell structure at the macromolecular level as revealed by modern methods of fine-structure analysis, especially by electron microscopy. Emphasis on structure-function relationships in cell components. Demonstration of the various methods used in fine-structure analysis.

Prerequisite: BIO 166 and BIO 167 and two BIO courses at 200 level or above (NOT BIO 230). Corequisite: BIO 433. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 433 - Techniques in Electron Microscopy (3)

Fundamental training in techniques used in obtaining structural cellular information at the macromolecular level. Emphasis is on methods and applications of electron microscopy to the study of biological materials.

Prerequisite: BIO 166 and BIO 167 and two BIO courses at 200 level or above (NOT BIO 230). Corequisite: BIO 432. Cross-Listed as: LEH BIO 481/BIO 433. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 435 - Neurophysiology (3)

A general consideration of nervous systems, excitable membrane physiology, synapses, sensory receptors, trophic function, regeneration of nervous tissue, and behavior.

Prerequisite: BIO 166 and BIO 167 and BIO 228 and one BIO course at 200 level or above (NOT BIO 230) and CHE 234 and CHE 235. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 436 - Neurophysiology Laboratory (2)

The laboratory will introduce the students to instrumentation and neurophysiological techniques. The experiments will examine bioelectricity, receptor processes, central processes, behavior, and regeneration.

Prerequisite: PREREQ: BIO 166 and BIO 167. PRE OR COREQ: BIO 435. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 437 - Biological Data Analysis and Interpretation (2)

Applications of statistics, data interpretation and presentation focused on genetics, molecular biology, biochemistry, ecology and evolution.

Prerequisite: BIO 166, BIO 167, BIO 238, and BIO 240. Requirement Designation: Regular Liberal Arts.

BIO 438 - Genomics and Human Health (4)

In-depth analysis of genomes in humans, rodents, and primates and covers the current understanding of genetic and genomic mechanisms in relation to human health. Topics include gene identification and functional genomic studies in cancer, ageing, infertility, and behavior; development and evaluation of genetic testing and biopharming; and social/ethical/legal issues related to genetic and genomic advances.

Prerequisite: BIO 166 and BIO 167 and BIO 238 Genetics. Requirement Designation: Regular Liberal Arts.

BIO 440 - Biology Journal Review (2)

Reading, written critical review, student presentations and round-table discussion of current, primary research papers in biology.

Prerequisite: BIO 166 and BIO 167 and one BIO course at 200 level or above (NOT BIO 230). Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 450 - Biology Seminar (1)

The seminar provides opportunity for reading current literature in selected areas of interest for study of reports and for discussions.

Prerequisite: 15 credits in BIO and CHE 168 and CHE 169. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 462 - Modeling Cellular Networks (4)

The use of mathematical models and computational tools for studying the various regulatory networks in the cell.

Prerequisite: BIO 166 and BIO 167 and two BIO courses at 200 level or above (NOT BIO 230) and CMP 232. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 465 - Microbial Physiology and Genetics (4)

The organization of physiological processes in microorganisms including structure, energy yielding mechanisms, macromolecular biosynthesis, growth, and regulation. The genetics of microorganisms including the organization, maintenance, and expression of genetic information, cell growth and differentiation, and genetic engineering.

Prerequisite: BIO 166 and BIO 167 and BIO 331. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 489 - Introduction to Experimental Biology (1 (may be repeated for a maximum 3 credits).)

Individual laboratory investigation for advanced students, under the guidance of a faculty member. Students are required to create and present a poster describing their work at annual

meetings that are held either within or outside of Lehman College. Sponsorship of a faculty member is required.

Prerequisite: Departmental permission and 15 BIO credits.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

BIO 490 - Honors in Biological Sciences (3)

Independent laboratory investigation for advanced students, under the guidance of a faculty member (minimum of 90 hours). Students are required to create and present a poster of their research at annual meetings that are held either within or outside of Lehman College. Sponsorship of a faculty member is required.

Prerequisite: A GPA of 3.0 or better, completion of at least one semester of BIO 489, department permission.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CED - Cooperative Education

CED 100 - Jumpstart Your Career: Braven Accelerator (3)

Preparation for the competitive, globalized job marketplace including formation of professional networks, communication in multiple formats, teamwork, development of career potentials, and project management.

Requirement Designation: Regular Non-Liberal Arts.

CED 105 - Introduction to Cooperative Education and Career Development (2)

An introductory course for students interested in cooperative education, internships, and career development. The course will examine individual and societal attitudes toward work, introduce concepts of the work ethic, and explore career options. A goal of the course is successful job placement as part of the Cooperative Education Program or in other Lehman internship programs.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CED 270 - Social Processes in the Work Environment (4)

Required of all cooperative education students concurrent with their first job placement. Topics include individual and group dynamics in work organizations and their application, evaluation of the current work experience and its connection to the academic program, and assessment and analysis of relations between the employee and the employer. Individual conferences.

Prerequisite: CED 105 or permission of the instructor.
Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CED 355 - Academic Perspectives on the World of Work (3)

Provides a structured program in relating student work experiences to the broader academic themes in the liberal arts. (May be taken for a total of 6 credits.) PREREQ: *CED 270 or permission of the instructor.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CHE - Chemistry

Information for co-requisite courses CHE 114- CHE 235.

CHE 114, CHE 115, CHE 120, CHE 121, CHE 166, CHE 167, CHE 168, CHE 169, CHE 232, CHE 233, CHE 234, CHE 235:

If it is necessary to repeat either a lecture course or a laboratory course and a passing grade has already been obtained in both courses, the co-requisite course is not to be repeated. However, note that credit will be withheld, and the student will not be admitted to further chemistry courses until both the lecture and laboratory have been completed satisfactorily.

CHE 001 - Preparation for General Chemistry (3)

Practice in handling mathematical problems in physical science and an introduction to certain fundamental topics in chemistry, for students who have had insufficient high school training in the physical sciences.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CHE 114 - Essentials of General Chemistry Lecture (3)

Essentials of chemistry and their applications to inorganic chemistry.

Prerequisite: PRE or COREQ: MAT 104 or MAT 132 or MAT 105 or MAT 171 or MAT 172 or satisfaction of requirements for placement into precalculus (MAT 172).
Requirement Designation: Life and Physical Sciences or Scientific World. Offered: Fall-Spring.

CHE 115 - Essentials of General Chemistry Laboratory (1.5)

Introduction to laboratory experimentation to familiarize students with scientific measurements and practical chemical reactions.

Prerequisite: CHE 114. Requirement Designation: Life and Physical Sciences or Scientific World. Offered: Fall-Spring.

CHE 120 - Essentials of Organic Chemistry Lecture I (3)

Essentials of organic chemistry and their application to biochemistry.

Prerequisite: CHE 114. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 121 - Essentials of Organic Chemistry Laboratory II (1.5)

Study of practical organic laboratory techniques and preparations to illustrate the lectures in CHE 120.

Prerequisite: CHE 120. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 136 - Elements of Chemistry (4)

Basic principles of chemistry through laboratory and other discovery experiences together with lectures and workshops. The course covers basic topics such as combustion, chemical reactions, atoms and molecules, ions, acids and bases, and the periodic table. Note: Cannot be used to satisfy the chemistry requirement for any major or program that requires a chemistry course

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 137 - Elements of Chemistry I (3)

Basic principles of chemistry centering on laboratory and other discovery experiences together with lectures and workshops. Topics include combustion, chemical reactions, atoms and molecules, and the development of the Periodic Table.

Corequisite: CHE 138. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 138 - Elements of Chemistry II (3)

Basic principles of chemistry centering on laboratory and other discovery experiences together with lectures and workshops. Topics include. the relationship of chemistry to electricity, ions, acids and bases, acid rain, electronic structure of atoms and rules of chemical bonding.

Corequisite: CHE 137. Requirement Designation: Flexible Core - Scientific World. Offered: Fall-Spring.

CHE 166 - General Chemistry I (4)

Fundamental laws and theories of chemistry.

Prerequisite: PRE OR COREQ: MAT 171 or MAT 172 or satisfaction of requirements for placement into calculus I (MAT 175). Requirement Designation: Life and Physical Sciences or Scientific World. Offered: Fall-Spring.

CHE 167 - General Chemistry Laboratory I (1.5)

Introduction to the practical aspects of chemical principles, with emphasis on quantitative measurements and analytical technique.

Prerequisite: PRE or COREQ: CHE 166. Requirement Designation: Life and Physical Sciences or Scientific World. Offered: Fall-Spring.

CHE 168 - General Chemistry II (4)

An in-depth introduction to thermodynamics, redox reactions, electrochemistry and chemical equilibrium.

Prerequisite: CHE 166 and MAT 171 or MAT 172 or satisfaction of requirements for placement into calculus I (MAT 175). Requirement Designation: Life and Physical Sciences or Scientific World. Offered: Fall-Spring.

CHE 169 - General Chemistry Laboratory II (1.5)

Continuation of CHE 167. Emphasis will be on inorganic preparation, ionic separation, and qualitative analysis.

Prerequisite: CHE 167. PRE or COREQ: CHE 168. Requirement Designation: Life and Physical Sciences or Scientific World. Offered: Fall-Spring.

CHE 209 - Clinical Chemistry (4)

Study of the fundamentals of analytical methods used in the clinical laboratory, including standard clinical procedures and their application to the analysis of body fluids. Metabolic pathways and their relation to normal and pathological conditions will be discussed.

Prerequisite: Either CHE 120 AND CHE 121 or CHE 168 and CHE 169. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 232 - Organic Chemistry Lecture I (4)

Study of the structure and properties of the fundamental classes of organic compounds, with emphasis on reactivity, reaction mechanisms, synthesis, and stereochemistry.

Prerequisite: CHE 168 and CHE 169. Corequisite: CHE 233. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 233 - Organic Chemistry Laboratory I (2)

Study of organic synthesis and laboratory techniques, including the use of modern instrumentation and organic qualitative analysis.

Prerequisite: CHE 168 and CHE 169. Corequisite: CHE 232. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 234 - Organic Chemistry Lecture II (4)

Continuation of CHE 232.

Prerequisite: CHE 232. Corequisite: CHE 235. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 235 - Organic Chemistry Laboratory II (2)

Continuation of CHE 233.

Prerequisite: CHE 233. Corequisite: CHE 234. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 2420 - Introduction to Inorganic Chemistry (3)

Chemical principles and explanations for the existence and behavior of essential, and atypical elements and compounds.

CHE 2430 - Introduction to Inorganic Chemistry Laboratory (1.5)

Experiments involving synthesis and characterization of fundamental inorganic compounds.

CHE 244 - Introduction to Biochemistry (3)

(Closed to students majoring in Chemistry.) Introductory course emphasizing the study of the structure, reactions, and syntheses of biological compounds; mechanism of enzyme-catalyzed reactions and biochemical genetics.

Prerequisite: CHE 120. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 245 - Biochemistry Laboratory (1.5)

(Closed to students majoring in Chemistry.) Laboratory exercises designed to illustrate the biochemical aspects of nutrition. Properties and metabolic roles of carbohydrates, lipids, proteins, enzymes, hormones, vitamins, and minerals will be emphasized.

Prerequisite: CHE 120 and CHE 121. Corequisite: CHE 244. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 249 - Quantitative Analysis (5)

Fall term only. Principles of gravimetric, volumetric, and spectrophotometric analysis. Methods involving acidimetry, precipitation, chelation, oxidation, and iodometry. Analytical separations.

Prerequisite: CHE 168 and CHE 169. Requirement Designation: Regular Liberal Arts. Offered: Fall.

CHE 266 - Introduction to Forensic Science (3)

The application of the natural sciences to matters of law. Recognizing, preserving, analyzing, and interpreting physical evidence to provide information to the courts and law enforcement agencies.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 320 - Medicinal Chemistry (3)

An examination of the relationship between molecular structure and biological activity for some of the more important classes of therapeutic agents. Relevant nomenclature, functional group chemistry, and stereochemistry of the major classes of organic compounds; mechanism of action; structure-activity relationships, and other factors which influence drug action will be discussed.

Prerequisite: CHE 234 and BIO 167. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 332 - Introductory Physical Chemistry I (3)

Fall term only. (Intended for students majoring in Biochemistry or Biology.) An introduction to the principles of thermodynamics, kinetics, and molecular structure fundamental to the understanding of living systems. Applications of principles will include such topics as physical properties of proteins and nucleic acids, membrane transport, diffusion, enzyme kinetics, x-ray diffraction, and molecular spectroscopy.

Prerequisite: CHE 168, CHE 169, MAT 175, and PHY 166. Corequisite: MAT 176 and PHY 167. Cross-Listed as: LEH CHE 332/CHE 342. Requirement Designation: Regular Liberal Arts. Offered: Fall.

CHE 334 - Introductory Physical Chemistry II (3)

Spring term only. Continuation of CHE 332.

Prerequisite: CHE 332. Requirement Designation: Regular Liberal Arts. Offered: Spring.

CHE 335 - Introductory Physical Chemistry of Biosystems Laboratory (3)

Spring term only. Experimental work employing physico-chemical techniques in the investigation of biochemical processes.

Prerequisite: CHE 249, CHE 332 and CHE 334. Requirement Designation: Regular Liberal Arts. Offered: Spring.

CHE 342 - Physical Chemistry Course in Quantum Chemistry (3)

Molecular theory of chemistry with principles and applications including quantum mechanics, molecular structure and spectroscopy.

Prerequisite: CHE 168, PHY 169, and MAT 176. Cross-Listed as: LEH CHE 332/CHE 342. Requirement Designation: Regular Liberal Arts. Offered: Fall.

CHE 344 - Physical Chemistry Course in Kinetics and Thermodynamics (3)

Selected topics drawn from thermodynamics, states of matter, statistical thermodynamics and kinetics with an emphasis on the relation between experiment and theory.

Prerequisite: CHE 168, PHY 169, and MAT 176. Requirement Designation: Regular Liberal Arts. Offered: Spring.

CHE 345 - Physical Chemistry Laboratory in Quantum Chemistry (2)

Experimental work employing important techniques in Quantum Chemistry and/or Spectroscopy.

Prerequisite: PREREQ: CHE 249. PRE OR COREQ: CHE 342. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 347 - Physical Chemistry Laboratory in Kinetics and Thermodynamics (2)

Experimental work employing important techniques in Kinetics and/or Thermodynamics.

Prerequisite: PREREQ: CHE 249. PRE-or COREQ: CHE 344. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 391 - Chemical Investigations (1-3 (maximum 9 credits).)

A course designed to allow qualified students to participate in original chemical investigation under the supervision of a faculty member. A written report is required each semester.

Prerequisite: Department Permission required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 440 - Quantum Chemistry (3)

Study of the fundamental principles of quantum theory as applied to the fields of atomic and molecular structure and associated topics.

Prerequisite: CHE 344 or CHE 334. Recommended: MAT 323. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 442 - Inorganic Chemistry (3)

Study of inorganic chemical principles including relevant concepts of bonding, intermolecular forces, acid-base behavior, and reduction-oxidation properties. Chemistry of the main group elements along with transition metals and their complexes.

Prerequisite: CHE 234. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 443 - Advanced Inorganic Chemistry (5)

Advanced studies in modern inorganic chemical theories on the interpretation and explanation of the properties, and relations between the elements, their compounds and structures.

Prerequisite: PREREQ: CHE 235 and CHE 442. PRE-or COREQ: CHE 249. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 444 - Biochemistry I (4)

Fall term only. Study of amino acids, protein structure and conformation, kinetic and molecular basis of enzyme action, lipids, and membrane structure, carbohydrates and intermediary metabolism, regulatory mechanisms, elementary thermodynamics in biochemical equilibria, and relationships between structure and function of biological macromolecules.

Prerequisite: PREREQ: CHE 234. Departmental Permission required for students who have previously taken CHE 244. Requirement Designation: Regular Liberal Arts. Offered: Fall.

CHE 446 - Biochemistry II (3)

Spring term only. A continuation of CHE 444. Study of photosynthesis, biosynthetic pathways, structure and reactivity of nucleic acids, regulation of gene expression, active transport, mechanism of muscle contraction, and immunochemistry.

Prerequisite: CHE 444. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 447 - Biochemistry Laboratory (3)

Spring term only. Techniques for the study of large molecules of biological importance; physical and chemical methods of isolation, characterization, structure determination, sequence, and biosynthesis of macromolecules; and kinetics and mechanism of enzyme-catalyzed reactions. Laboratory work will include the application of the following methods to the study of biological molecules: spectrophotometry, chromatography (thin layer, ion exchange, and column), gradient centrifugation, electrophoresis, and radiochemical assays.

Prerequisite: PRE or COREQ: CHE 446. Requirement Designation: Regular Liberal Arts. Offered: Spring.

CHE 448 - Advanced Organic Chemistry: Lecture (2)

Detailed examination of heterocyclic and homocyclic compounds, polynuclear condensed ring systems, and natural products. Special emphasis on synthetic methods and structure determination, including kinetics and mechanisms of organic reactions.

Prerequisite: CHE 234 and CHE 344. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 449 - Instrumental Analysis (5)

Electroanalytical, spectrophotometric, chromatographic, and other instrumental methods as applied to analytical chemistry.

Prerequisite: CHE 344 and CHE 345. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 450 - Chemistry Seminar (1 (May be repeated for a total of 4 credits.))

Topics of interest in chemistry and biochemistry are presented by members of the scientific community.

Prerequisite: CHE 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 451 - Advanced Laboratory Techniques (2)

Synthesis of organic, inorganic, and organometallic compounds by advanced methods, and the application of modern techniques and instrumentation to their isolation and characterization.

Prerequisite: CHE 234, CHE 344 and CHE 442. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 454 - Studies in Analytical Chemistry (3)

Opportunity for in-depth study of topics in chemistry. (Topics will be announced in advance.)

Prerequisite: CHE 344, one 300- or 400-level CHE course in the area(s) of interest, and Departmental permission.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 456 - Studies in Biochemistry (3)

Opportunity for in-depth study of topics in chemistry. (Topics will be announced in advance.)

Prerequisite: CHE 344, one 300- or 400-level CHE course in the area(s) of interest, and Departmental permission.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 458 - Studies in Inorganic Chemistry (3)

Opportunity for in-depth study of topics in chemistry. (Topics will be announced in advance.)

Prerequisite: CHE 344, one 300- or 400-level CHE course in the area(s) of interest, and Departmental permission.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 460 - Studies in Organic Chemistry (3)

Opportunity for in-depth study of topics in chemistry. (Topics will be announced in advance.)

Prerequisite: CHE 344, one 300- or 400-level CHE course in the area(s) of interest, and Departmental permission.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 462 - Studies in Physical Chemistry (3)

Opportunity for in-depth study of topics in chemistry. (Topics will be announced in advance.)

Prerequisite: CHE 344, one 300- or 400-level CHE course in the area(s) of interest, and Departmental permission.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 464 - Intradisciplinary Studies (3)

Opportunity for in-depth study of topics in chemistry. (Topics will be announced in advance.)

Prerequisite: CHE 344, one 300- or 400-level CHE course in the area(s) of interest, and Departmental permission.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHE 491 - Chemical Research (1-3 (maximum 9 credits))

This course is designed to enable the advanced student to pursue an investigation of a topic of common interest to the student and a faculty member of the Department. A written research report is required each semester.

Prerequisite: Department Permission required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHI - Chinese**CHI 101 - Elementary Chinese I (4)**

Elements of grammar, reading simple texts, practice in speaking and audiolingual work in the Language Laboratory.

Prerequisite: Departmental Permission Required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHI 102 - Elementary Chinese II (5)

Elements of grammar, reading simple texts, practice in speaking and audiolingual work in the Language Laboratory.

Prerequisite: CHI 101 or Departmental Placement.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHI 111 - Elementary Chinese I (3)

Elements of grammar, reading simple texts, practice in speaking and audio-lingual work in the Language Laboratory.

Prerequisite: Departmental Permission Required. Requirement Designation: College Option. Offered: Fall-Spring.

CHI 112 - Elementary Chinese I I (3)

Elements of grammar, reading simple texts, practice in speaking and audio-lingual work in the Language Laboratory.

Prerequisite: CHI 111 or equivalent. Requirement Designation: College Option. Offered: Fall-Spring.

CHI 201 - Intermediate Chinese I (3)

An intermediate course designed for students with some previous knowledge of Chinese language and culture. It aims at continuing developing students' communicative skills in Chinese language and broadening their comprehension of Chinese culture. The four skills to be reinforced with stress still on listening and speaking. Major sentence patterns of Chinese grammar are emphasized while continue learning to read and write in Chinese characters.

Prerequisite: PREREQ: CHI 112 or Department permission. Requirement Designation: Regular Liberal Arts.

CHI 202 - Intermediate Chinese II (3)

An upper intermediate language and culture course designed as a continuation of CHI 201. This course will be conducted approx. 80% of the time in Chinese. It is designed to improve all of the language skills with special emphasis on the development of reading and listening comprehension, as well as speaking skills.

Prerequisite: PREREQ: CHI 201 or Department permission. Requirement Designation: Regular Liberal Arts.

CHI 285 - Individualized Intermediate Foreign Language Study (1)

Independent study in Chinese generally linked to a course in another field.

Prerequisite: CHI 102 or Departmental permission.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHI 299 - Elective Credit (3)

Elective Credit

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CHI 301 - Advanced Chinese I (3)

Review and extension of grammar and syntax through the discussion of magazine, newspaper and literary texts. Advanced grammar and rhetorical methods are taught and article-level compositions are practiced.

Prerequisite: PREREQ: CHI 202 or Department permission. Requirement Designation: Regular Liberal Arts.

CHI 302 - Advanced Chinese II (3)

Further development of grammar, syntax, and reading and writing through the discussion of magazine, newspaper and literary texts as well as audio and video tapes of Chinese movies.

Prerequisite: PREREQ: CHI 301 or Department permission. Requirement Designation: Regular Liberal Arts.

CHI 385 - Individualized Advanced Foreign Language Study (1)

Independent study in Chinese generally linked to a course in another field.

Prerequisite: Two semesters of CHI 285 or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CGI - Computer Graphic Imaging**CGI 221 - Applied Imaging and Applications to the World Wide Web I (3)**

Concepts and techniques underlying the World Wide Web. Image processing and two dimensional graphics as methods to produce material for the World Wide Web. Emphasis on the artistic, mathematical and computer science underpinnings of these topics.

Prerequisite: ART 112 Cross-Listed as: LEH ART 221/CGI 221. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CGI 222 - Introduction to Animation (3)

The theory and practice of animation using traditional and digital techniques.

Prerequisite: PRE or COREQ: ART 112 or the successful completion of any 100-level art course. Cross-Listed as: LEH ART 222/CGI 222. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CGI 321 - Computer Modeling and Design I (3)

An introduction to the theory and practice of three-dimensional modeling. Topics include primitive objects, transformations, curve creation and manipulation, symmetries, texture maps, and basic rendering.

Prerequisite: PREREQ: ART 112. Cross-Listed as: LEH ART 321/CGI 321. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CGI 322 - Computer Modeling and Design II (3)

Advanced techniques in three-dimensional modeling. Topics include organic forms and figures, advanced rendering and texture mapping.

Prerequisite: ART 321 or CGI 321 Cross-Listed as: LEH ART 322/CGI 322. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CGI 325 - Digital Multimedia (3)

Multimedia projects in the digital realm including digital audio, digital video and interactivity.

Prerequisite: PREREQ: ART 112. Cross-Listed as: LEH ART 325/CGI 325. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CGI 334 - Digital Media Production: Theory and Practice (3 (may be repeated twice))

Concepts and techniques underlying the theory of transmedia storytelling. Hands-on development of the core technical skills related to the creation and distribution of digital content.

Cross-Listed as: LEH ART 334 / CGI 334. Requirement Designation: Regular Liberal Arts.

CGI 335 - Digital Media Production: Advancing the Narrative (3 (may be repeated twice))

Project-driven course focused on production, marketing and brand building. Content creation and development of technical skills in video, creative writing and graphics for print, web and social media platforms.

Cross-Listed as: ART 335 / CGI 335. Requirement Designation: Regular Liberal Arts.

CGI 421 - Computer Animation I (3)

Introduction to computer animation including keyframes, hierarchical animation, morphing, textures, cameras, and lighting.

Prerequisite: ART 321 OR CGI 321. Cross-Listed as: LEH ART 421/CGI 421. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CGI 422 - Computer Animation II (3)

Advanced techniques in computer animation including character rigging and effects.

Prerequisite: ART 421 or CGI 421. Cross-Listed as: LEH ART 422/CGI 422. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CGI 441 - Broadcast Design (3)

Creation of sophisticated title sequences, TV show packaging and on-air promotions to be used as part of video and film production.

Prerequisite: ART 325 or CGI 325. Cross-Listed as: LEH ART 441/CGI 441. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CGI 451 - Topics in Computer Imaging (3 (maximum 6 credits).)

For specific topics and sections, consult the Department.

Cross-Listed as: LEH ART 451/CGI 451. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CGI 480 - Senior Project (3)

Advanced projects in the field of computer imaging under faculty guidance.

Prerequisite: Departmental permission. Cross-Listed as: LEH ART 480/CGI 480. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CGI 481 - Independent Study in Computer Imaging (3)

Independent study on a specific topic under faculty supervision.

Prerequisite: Departmental permission. Cross-Listed as: LEH ART 481/CGI 481. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS - Computer Information Systems**CIS 106 - Computer Literacy (3)**

Use of software packages for word processing, database manipulation, and spreadsheet calculation. Introduction to the Internet and the World Wide Web.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS 166 - Computer Programming for Information Processing I (3)

Structured computer programming using a modern high-level programming language. Includes console I/O, data types, variables, control structures, including iteration, arrays, function definitions and calls, parameter passing, functional decomposition, and an introduction to objects. Debugging techniques.

Prerequisite: MAT 104 or departmental placement.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS 211 - Computer Information Systems (4)

Survey of the technology and applications of computer-based information systems in business.

Prerequisite: Three years of Regents-level mathematics or MAT 104. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CIS 212 - Microcomputer Architecture (3)

Architecture of microcomputer systems and its supporting system software. Various microprocessor systems, expansion bus design, memory design and management, secondary storage technologies and management, peripherals, and telecommunication technologies.

Prerequisite: CIS 211. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS 216 - Computer Group Productivity Tools (3)

Use and characteristics of basic group-ware and productivity tools such as electronic mail and messaging, presentation creation, group calendaring and scheduling, electronic meeting systems, desktop and realtime data conferencing, group document handling, work-flow and work-group utilities and group-ware developmental tools.

Prerequisite: CIS 211. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS 228 - The Internet (3)

Website creation, coding HTML documents, tags of the HTML language, style sheets. Writing and embedding simple java script code.

Prerequisite: CIS 211 and CIS 166. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS 234 - Introduction to Spreadsheet Analysis (3)

Use of spreadsheet software for elementary data analysis, simple modeling and forecasting. Worksheets, files, graphs, and formatted output and screen presentation. Macro programming.

Prerequisite: MAT 171 and a grade of B- (or better) in CIS 166. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS 241 - Computer Graphics in Business (3)

Applications of graphics in business as a reporting and analysis tool: presentation packages, project management packages, desktop publishing, CAD/CAM. Overview of the methods (software and hardware) used for generating graphics, including algorithmic image manipulation, interactive processing, input tools and display tools.

Prerequisite: MAT 171. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS 242 - Introduction to Systems Analysis and Design (4)

Study of a computer system life cycle via a structured approach: problem definition, feasibility study, cost estimation, analysis, design, implementation, testing and maintenance. Hardware and software organization. Several case studies will be considered.

Prerequisite: CIS 211. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS 243 - Introduction to Operating Systems (3)

Overview of operating systems (OS) from both a theoretical and a systems manager point of view. Process management and multitasking, memory management, resource management, file management, I/O management, command interpreter/shell and shell scripts will be covered. Large networked systems will be discussed from a systems point of view.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS 244 - Introduction to Database Management (3)

Fundamental concepts of database organization: fields, records, tables, indexes, queries, forms, reports. Use of a relational database system for loading, modifying and querying a data base. Programming in a database language.

Prerequisite: CIS 166 with a minimum grade of B-. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS 246 - E-Commerce (3)

Introduction to electronic commerce on the Internet. Designing an e-commerce site including web page content and development, site marketing and advertisement, legal and security considerations, shopping cart management, credit card and other debit transactions.

Prerequisite: CIS 166 and CIS 211. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS 247 - Practical Unix: Programming and System Administration (3)

Topics chosen from the following: text editors, file system, utility programs, pipe and filter paradigms, shell language programming; tools for maintenance of normal system operation, security, hardware and software configuration management and network connections.

Prerequisite: CIS 211 and CIS 166. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS 249 - Introduction to Local Area Networks (LAN's) (3)

An overview of LAN's from the point of view of a network administrator as well as a hands-on introduction to a popular network operating system. General topics will include LAN media, topologies, protocols, multi-platform connectivity, remote access, and rudimentary internetworking.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS 252 - Topics in Computer Applications (3)

(May be repeated for credit as the topic changes up to a maximum of 6 credits.) (For specific topics, see the Department.) Various sections on topics in Computer Applications.

Prerequisite: Department Permission Required. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS 266 - Computer Programming for Information Processing II (4)

Techniques of business information processing using object-oriented programming. Random access files, data management and control, variable arrays, object variables. Introduction to advanced techniques.

Prerequisite: A grade of C or better in CIS 166. Cross-Listed as: LEH CMP 266/CIS 266. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CIS 299 - Elective Credit (3)

Elective Credit

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS 324 - Spreadsheet Design and Programming (3)

Advanced features of spreadsheets, including graphics, database manipulation, built-in functions, and macros, applied to a variety of business-oriented problems.

Prerequisite: CIS 234. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS 329 - Local Area Networks (LAN's) (3)

An overview of LANs as well as hands-on introduction to a popular network operating system. General topics will include LAN media, topologies, protocols, multiplatform connectivity, remote access, and rudimentary internet working.

Prerequisite: CIS 211 and CIS 212. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CIS 331 - Network Introduction (3)

Introduction to network technologies (Ethernet, ATM, WiFi, Bluetooth, ZigBee), network architectures (telephone, OSI, and Internet), and standard tools for administering and

monitoring networks. Evaluation of network technologies and designs for supporting some services; design and configuring networks for those services.

Prerequisite: CIS 211 and CIS 212. Cross-Listed as: LEH CIS 349/CIS 331. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS 333 - Network Security (3)

Introduction to securing networks, with emphasis on firewalls, intrusion detection, and monitoring tools. Monitoring and improving the security of an organizations network. Building firewalls and configuring intrusion detection systems. Detecting some well-known attacks.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS 341 - Computer System Fundamentals (3)

Examination, removal, and reassembly of computer hardware components, such as processors, disks, memory, and buses. Installing and operating the following computer system components: operating systems, user interfaces, subsystems (such as Web servers), development environments, communications, and distributed file systems. Performance characteristics also will be discussed and measured.

Prerequisite: CIS 211. Corequisite: COREQ: CIS 212. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CIS 344 - Database Design and Programming (3)

Programming in a database language. Emphasis on programming ideas and techniques and user interfaces in a modern database system. Review of elementary relational database concepts, with emphasis on programming rather than theory.

Prerequisite: CIS 244 and CIS 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CIS 345 - Introduction to Operating Systems (3)

Overview of operating systems (O.S.) from both a theoretical and a systems manager point of view. Process management and multitasking, memory management, resource management, file management, I/O management, command interpreter/shell, and shell scripts will be covered. Large networked systems will be discussed from a systems point of view.

Prerequisite: CIS 211, CIS 212, and CHE 166. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS 346 - E-Commerce (3)

Introduction to electronic commerce on the Internet: Designing an e-commerce site including web Server installation, configuration, and tuning; web page content and development, site marketing and advertisement, legal and

security considerations, shopping cart management, credit card and other debit transactions.

Prerequisite: CIS 166 and CIS 211. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS 349 - Data Communications and Distributed Networks (4)

Data communications: standard models, system operations, major components, digital transmission (including some current schemes such as SONET, ISDN and ATM). Hands-on introduction to local area network architectures, link-layer protocols and their design and analysis.

Prerequisite: CIS 211 and CIS 212. Cross-Listed as: LEH CIS 349/CIS 331. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS 356 - Intermediate-Level Topics in Computer Applications (4)

(May be repeated for credit as the topic changes up to a maximum of 8 credits.) (for specific topics, see the Department). Various sections on topics in Computer Applications at the intermediate level.

Prerequisite: Departmental permission required. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CIS 488 - Internship in Computer Information Systems (3 (maximum 6 credits))

On-the-job training in a public or private institution.

Prerequisite: Departmental permission required. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CLT - Comparative Literature

CLT 211 - Classics of the Western World: Ancient and Medieval (3)

A study of masterworks in ancient and medieval literature and legend that have exerted particular influence on the Western world.

Cross-Listed as: LEH CLT 211/IDW 211. Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

CLT 212 - Classics of the Western World II: Renaissance and Modern (3)

A study of masterworks in Western literature from the Renaissance to modern times.

Cross-Listed as: LEH CLT 212/IDW 212. Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

CLT 213 - Classics of the Asian World (3)

A study of masterworks in literature and thought of the Asian world, with emphasis on the traditions of India, China, and Japan.

Cross-Listed as: LEH CLT 213/IDW 213. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CLT 299 - Elective Credit (3)

Elective Credit

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CLT 326 - History of the Theatre I (3)

History of the theatre and drama to the seventeenth century.

Cross-Listed as: LEH CLT 326/THE 326. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CLT 354 - Philosophy of the Social Sciences (3)

Study of some of the problems involved in the social sciences. Possible topics include the structure of theories in the social sciences, methods of inquiry, the nature of human action, and the relationship between knowledge in the social and natural sciences.

Cross-Listed as: LEH CLT 354/SOC 354/PHI 354.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CLT 360 - Variable Topics in Comparative Literature (3)

Various topics in Comparative Literature.

Prerequisite: PREREQ: CLT 211 or IDW 211 and CLT 212 or ENG 347 and ENG 348, IDW 213, and one of the following introductions to literary study: ENG 303, SPA 300, FRE 300, or ITA 300. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CLT 481 - Honors Tutorial (3)

(limited to students in the Comparative Literature Honors Program). Individual research and completion of an honors paper on a Comparative Literature topic, under supervision of the director of the Comparative Literature program or a member of the Advisory Council.

Prerequisite: CLT 211 or IDW 211 and CLT 212 or ENG 347 and ENG 348, and one of the following introductions to literary study: ENG 303, SPA 300, FRE 300, or ITA 300; permission of the program director. Cross-Listed as: LEH CLT 481/PHI 481. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CMP - Computer Science**CMP 108 - Programming for Non-Computer Science Majors (3)**

Implementation of basic programming constructs using robots, designing of simple video games, and creation of elementary web pages.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CMP 128 - Programming through Web Development (3)

Creation of websites using HTML, CSS, and Javascript.

Requirement Designation: Regular Liberal Arts.

CMP 167 - Programming Methods I (3)

Structured computer programming using a modern high-level programming language. Includes console I/O, data types, variables, control structures, including iteration, arrays, function definitions and calls, parameter passing, functional decomposition, and an introduction to objects. Debugging techniques.

Prerequisite: MAT 104 or departmental placement.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CMP 168 - Programming Methods II (4)

Continuation of parameter passing with a focus on devising function definitions and tracing recursive calls. Sorting and searching algorithms and a comparison of their performance. GUI programming. Threads, Exceptions and Exception Handling. Object Oriented Programming techniques.

Prerequisite: A grade of B- or better in CMP 167 or Departmental Permission. CIS 166 may be used as a PREREQ with Departmental Permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CMP 232 - Elementary Discrete Structures & Applications to Computer Science (4)

Sets, relations, and functions; propositional calculus, Boolean algebras, and combinatorial circuits, counting methods; proof techniques; analysis of algorithms; graphs and trees, puzzles; finite machines, sequential circuits, and recognizers.

Prerequisite: MAT 172 or departmental placement or permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CMP 266 - Cmp Prog Inf Proc Ii (4)

Cmp Prog Inf Proc Ii

Cross-Listed as: LEH CMP 266/CIS 266. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CMP 270 - Computer Programming in Visual Basic (2)

Intensive introduction to Visual Basic, for students who have successfully completed a two-semester sequence in another programming language.

Prerequisite: Two semesters of programming in another language, or Departmental permission. Requirement

Designation: Regular Liberal Arts. Offered: Fall-Spring.

CMP 273 - Computer Programming in Fortran (2)

Intensive introduction to Fortran for students who have successfully completed a two-semester sequence in another programming language.

Prerequisite: Two semesters of programming in another language or Departmental permission. Requirement

Designation: Regular Liberal Arts. Offered: Fall-Spring.

CMP 274 - Computer Programming in C++ (2)

Intensive introduction to C++, for students who have successfully completed a two-semester sequence in another programming language.

Prerequisite: Two semesters of programming in another language, or Departmental permission. Requirement

Designation: Regular Liberal Arts. Offered: Fall-Spring.

CMP 277 - Computer Programming in Java (2)

Intensive introduction to Java, for students who have successfully completed a two-semester sequence in another programming language.

Prerequisite: Two semesters of programming in another language, or Departmental permission. Requirement

Designation: Regular Liberal Arts. Offered: Fall-Spring.

CMP 279 - Topics in Computer Programming (2)

(May be repeated, with change of language and Departmental permission.) Intensive introduction to a programming language, for students who have successfully completed a two-semester sequence in another programming language.

Prerequisite: Two semesters of programming in another language, and Departmental permission. Requirement

Designation: Regular Liberal Arts. Offered: Fall-Spring.

CMP 320 - Quantum Computer Science (3)

An elementary introduction to quantum information science and quantum computing for majors in computer science, physics, and mathematics. The linear algebra of quantum mechanics, bits versus qubits, quantum cryptography, quantum teleportation, quantum gates and quantum computing, the Grover search algorithm.

Prerequisite: MAT 313. Cross-Listed as: LEH PHY 320/CMP 320. Offered: Fall-Spring.

CMP 332 - Numerical Methods (3)

Computer methods of approximate calculation. Topics chosen from polynomial approximation and interpolation, orthogonal polynomials, finite difference methods, splines and least square approximations; numerical differentiation and integration; numerical solutions of equations by iterative methods and matrix inversion; eigenvalue computations; sparse matrix methods.

Prerequisite: CMP 326, MAT 226 and MAT 313.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CMP 334 - Computer Organization (4)

Introduction to digital logic-expressions, gates, flip-flops, adders, busses, multiplexers. Introduction to assembly language and assembly level organization - data representation, instruction formats, addressing modes, interrupts. Memory systems - caches (mapping and management policies) and memory hierarchies, latency and bandwidth, virtual memory (pagetables, TLB). Input/Output-busses, channels and DMA. Performance considerations-pipelining, RISC architecture, branch prediction, introduction to instruction level parallelism.

Prerequisite: CMP 167, CMP 232 or Departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CMP 335 - Computer Organization Laboratory (1)

A practical course applying principles taught in CMP 334. Construction and operation of the separate hardware components; system software installation.

Prerequisite: CMP 334. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CMP 338 - Data Structures and Algorithms I (4)

Abstract characterizations of data structures such as arrays, stacks, queues, trees and graphs will be studied along with algorithms that make use of such structures, including algorithms for sorting, searching, and memory management. Implementation issues will be considered, and students will write programs that embody these structures and algorithms.

Prerequisite: CMP 232, and CMP 326 or CMP 168.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CMP 339 - Programming Languages (4)

Design, evaluation and implementation of programming languages. Syntax and semantics of language constraints. Control structures, including branching, selection, iteration, procedure calls and recursion; data types and data structures, and operations on them; name structures, binding, environments, dynamic and static scoping; parameter passing.

Prerequisite: CMP 334 and CMP 338. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CMP 342 - Internet Programming (4)

Programming using languages for the Internet, such as Java or Visual Basic. Web server management, including administrative software tools.

Prerequisite: CMP 326 or CMP 168. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CMP 346 - Object Oriented Techniques (4)

Study of design patterns and a virtual machine. Class file structure, the virtual machine computer architecture and instruction set, Just-In-Time compilation, different forms of garbage collectors and their merits, and performance enhancements.

Prerequisite: CMP 326 or CMP 168. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CMP 405 - Introduction to Networks (3)

Introduction to network protocols and algorithms. Intensive study of the most important protocols at each layer. Examination of their strengths and weaknesses. Basic algorithms for identifying primary servers, constructing forwarding and broadcasting trees, and determining routing tables. Writing a simple networking service at the I.P. layer or higher. Lab exercises include building and testing small networks.

Prerequisite: CMP 334 and CMP 338. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CMP 406 - Network Systems Lab (2)

Introduction to installation and configuration of networking equipment, network monitoring and trouble-shooting, and network management. Use of typical networking equipment. Some programming in Java or C will be required.

Prerequisite: CMP 338 and CMP 405. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CMP 407 - Compiler Construction (4)

Compilation of simple expressions and statements. Organization of a compiler, including compile-time and run-time symbol tables, lexical scan, object code generation, error diagnostics, object-code optimization techniques such as register allocation via graph coloring, and method in-lining. Use of compiler writing languages and bootstrapping.

Prerequisite: CMP 339. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CMP 408 - Software Engineering (4)

Classical and object-oriented software engineering. System life cycle, structured coding techniques, modularity, data encapsulation and generic facilities. Verification, validation

and testing techniques: static analysis, input-output assertions, structured induction, and symbolic execution.

Prerequisite: CMP 338. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CMP 409 - Security of Networks (4)

Introduction to attack and defense in network security. Basic tools for both attacking and defending networks and their use.

Prerequisite: CMP 405. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CMP 410 - Data Structures and Algorithms II (4)

Design and analysis of algorithms: Worst and average case behavior. Design strategies, such as divide and conquer, the greedy principle, dynamic programming, and backtracking, are illustrated by examples chosen from sorting and searching, applications of graph theory, scheduling, pattern matching, matrix multiplication, and other topics. NP-complete problems. Parallel processing and algorithms.

Prerequisite: CMP 338 and MAT 313. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CMP 412 - Computer Graphics (4)

Techniques of producing graphical displays. Two-dimensional transformations. World vs. Screen coordinates. Line drawing algorithms. Clipping. Motion. Use of devices such as light pens, graphics tablets, and mice.

Prerequisite: CMP 326 and MAT 313. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CMP 414 - Artificial Intelligence (4)

Survey of artificial intelligence with an introduction to LISP programming. Graph-searching algorithms applied to problem solving. Selected topics from pattern recognition, natural language processing, and expert systems.

Prerequisite: CMP 338. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CMP 416 - Computability Theory (4)

Mathematical formulation of computability theory and abstract machine theory. Finite-state machines and Turing machines; Church-Turing Thesis; recursive functions and recursively enumerable sets; unsolvability and the Halting Problem.

Prerequisite: CMP 232 and CMP 326. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CMP 417 - Cryptography (4)

Methods for transforming information into cryptic messages and for deciphering secret code. Review of selected topics in elementary number theory. Construction of linear, quadratic, and exponential ciphers, as well as key exchange protocols.

Prerequisite: MAT 313. Cross-Listed as: LEH CMP 417/MAT 417. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CMP 418 - Systems Analysis and Design (4)

Development of many systems will be studied using a structured approach to system design. Feasibility study, project cost estimation, top down design, Hierarchy/Input/Process/ Output (HIPO), data flow diagrams, data dictionaries, backup, security, maintenance and testing system.

Prerequisite: CMP 326. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CMP 420 - Database Systems (4)

Introduction to theory of database systems and database management: theory of relational, hierarchical, and network database organization, with emphasis on the first; views of data, data organization, data dependency and redundancy, normal forms, and query language.

Prerequisite: CMP 338. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CMP 425 - System Programming Languages (4)

Assembly language for one machine language. Projects to illustrate programming techniques in assembly language including, loops, procedure and subroutine call and return, parameter passing, call stacks, data structures. Introduction to the C language- including the C preprocessor, macros, and syntax. Data types, structures, pointers and pointers to functions.

Prerequisite: CMP 326 and CMP 334. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CMP 426 - Operating Systems (4)

Operating systems and their role in various types of computer systems; the principles of multiprogramming; algorithms for resource allocation; multiple-computer systems.

Prerequisite: CMP 334 and CMP 338. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

CMP 428 - Video Game Programming (4)

General game architecture, asynchronous input, animated sprites, action oriented A.I., collision detection, scrolling, sound clips, 3D graphics. Student projects involving development of several video games, both individually and in teams.

Prerequisite: CMP 338 and a strong foundation in object-oriented programming techniques. Corequisite: MAT 226. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CMP 430 - Mobile Programming (4 (may be repeated for a maximum of 8 credits).)

Design and implementation of applications running on a mobile platform such as smart phones and tablets. Learn programming languages and development tools for mobile SDKs. Writing code to exercise important features of mobile devices. (May be re-elected for credit as often as the topic changes.)

Prerequisite: CMP 338 Requirement Designation: Regular Non-Liberal Arts.

CMP 436 - Introduction to Enterprise Computing (4)

Technical issues and principles for building distributed enterprise systems. Applications of these principles using the Java EE framework. Server-side distributed component model such as Enterprise Java Beans and Web Services.

Prerequisite: CMP 338 and proficiency in Java. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CMP 438 - Communicating Robots (4)

Techniques and principles for building communicating robots. Programming on resource-limited systems, designing communications protocols, and testing distributed algorithms. Project to involve building a robot to work/compete with other robots.

Prerequisite: CMP 338. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CMP 444 - Modeling Cellular Networks (4)

Mathematical models and computational tools for studying regulatory networks in the cell.

Prerequisite: BIO 166 and CMP 232. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CMP 446 - Computational Tools for Bioinformatics (4)

Foundational tools, techniques and algorithms for Bioinformatics and Molecular Biology.

Prerequisite: BIO 166, CMP 167, and CMP 232. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CMP 464 - Topics in Computer Science (4 (maximum 8 credits))

Various sections on topics in computer science. (For specific topics and sections, consult the Department.)

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CMP 485 - Independent Study (3 (maximum 6 credits))

Independent study on a specific topic under faculty supervision.

Prerequisite: Departmental permission required. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CMP 486 - Independent Study (1 (maximum 3 credits))

Not allowed as elective for Mathematics or Computer Science concentrations.

Prerequisite: Departmental Permission Required. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

CMP 487 - Internship in Computer Science (3 (maximum 6 credits).)

On-the-job training in a public or private institution.

Prerequisite: Departmental Permission Required. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DAT - Data Science Methods and Applications**DAT 181 - Introduction to Data Analytics with R (1)**

Foundations of R for data analysis.

Requirement Designation: Regular Non-Liberal Arts.

DAT 182 - Introduction to Data Analytics with Python (1)

Foundations of Python for data analysis.

Requirement Designation: Regular Non-Liberal Arts.

DAT 183 - Introduction to Version Control (1)

Use of version control as part of the data science process.

Requirement Designation: Regular Non-Liberal Arts.

DAT 184 - Introduction to SQL (Structured Query Language) (1)

Introduction to the use of relational databases and SQL (Structured Query Language) as part of the data science process.

Requirement Designation: Regular Non-Liberal Arts.

DAT 310 - Data Visualization (3)

Introduction to the theory and practice of data visualization.

Requirement Designation: Regular Liberal Arts.

DAT 351 - Special Topics in Data Science (3)

Investigation of theories, issues, and methods on various topics in Sociology.

Requirement Designation: Regular Liberal Arts.

DAT 481 - Advanced Tutorial in Data Science Methods and Applications (3)

Advanced Individualized study. Topics to be arranged between student and instructor.

Prerequisite: Departmental permission Requirement Designation: Regular Liberal Arts.

DEC - Elementary Ed**DEC 430 - Social Studies and Literacy in Bilingual Childhood Settings-Grades 1-6 (4)**

Exploration of the diverse ways that bilingual, bicultural children develop language and literacy and an understanding of basic human needs and human interdependence in grades 1-6. Assessment and instruction within an integrated curriculum in the native and second languages. Use of media and technology within an integrated curriculum as appropriate.

Prerequisite: Successful completion of Requirements for Professional Coursework (see the preceding information). Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DEC 431 - Literacy and the Social Studies in Childhood Settings-Grades 1-6 (4)

Exploration of the ways in which children develop language and literacy and an understanding of basic human needs and human interdependence in Grades 1-6. Approaches to literacy and the social studies assessment and instructional strategies within an integrated curriculum. Use of technology as appropriate.

Prerequisite: Successful completion of Requirements for Professional Coursework (see the preceding information). Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DEC 432 - Mathematics and Art in Childhood Settings-Grades 1-6 (4)

Exploration of the ways in which children develop an understanding of mathematical concepts and art in Grades 1-6. Approaches to formal and informal assessment of children's development in mathematics and art to insure continuous development of problem solving processes and expression of ideas in both mathematics and art. Use of technology as appropriate.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DEC 433 - Science and Music in Childhood Settings-Grades 1-6 (4)

Exploration of the ways young children develop science and music literacy in grades 1-6. Application of assessment and instructional strategies, and media and technology in an integrated curriculum.

Prerequisite: Successful completion of Requirements for Professional Coursework (see the preceding information). Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DEC 436 - Art Methods in Childhood, Grades 1-6 (3)

Exploration of ways in which children, including children who are learning English as a second language, and children

with special needs, develop aesthetic appreciation and experiences in the arts in school settings. Documentation and assessment of children's artistic development and expressions of ideas through art using multiple artistic modalities to meet national and state standards.

Prerequisite: Admission to a Minor to Master's track in Childhood Education or Childhood Education with a Bilingual Extension. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DEC 437 - Methods of Math in Childhood Settings, Grades 1-6 (3)

Exploration of the diverse ways in which children, including children who are learning English as a second language, and children with special needs develop an understanding of mathematical concepts family, community, and school settings. Study of approaches to assessment and documentation of children's development in mathematics to insure continuous development of problem-solving processes and expression of ideas in mathematics. Integration of inquiry-based methods, appropriate manipulatives and technology tools consistent with national and state standards.

Prerequisite: Admission to a Minor to Master's track in Childhood Education or Childhood Education with a Bilingual Extension. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DEC 481 - Supervised Student Teaching-Grades 1-6 (4)

Student teaching in varied settings that include culturally diverse populations, students with disabilities, and students of different age/grade levels (1-6). Requires five full days each week in a school setting.

Prerequisite: Successful completion of Departmental minor, ECE 431, ECE 432, and Requirements for Professional Practice (see the preceding information). Corequisite: ECE 483. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DEC 482 - Supervised Student Teaching in Bilingual Settings-Grades 1-6 (4)

Clinical experience in bilingual settings that include students with disabilities and students of different age/grade levels (Grades 1-6). Requires five full days each week in the school placement.

Prerequisite: Successful completion of Requirements for Professional Practice (see the preceding information). Corequisite: ECE 483. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DEC 483 - Student Teaching Seminar for Childhood Education (2)

An examination of teaching practice. Emphasis on meeting the needs of all children including children with special needs

and English language learners. Course requires development of a program portfolio.

Prerequisite: Successful completion of Requirements for Professional Practice. Corequisite: DEC 481 or DEC 482. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DFN - Dietetics, Foods, and Nutrition

DFN 120 - The Nature and Science of Food (3)

Overview of the preparation and characteristics of food, including nutritional profiles, food selection and storage. Particular emphasis on the chemical changes and interaction of foods.

Prerequisite: CHE 114 and CHE 115. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DFN 140 - Current Food and Nutrition Concerns (2)

Fundamentals of the science of nutrition as they relate to current issues facing consumers. Application of nutrition principles to individual philosophies and lifestyles.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DFN 215 - Nutrition in Health Promotion (3)

(Closed to DFN concentrators.) Introduction to the principles of nutrition and their application to health maintenance, disease prevention, and treatment.

Corequisite: CHE 120 and BIO 182. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DFN 220 - Foods, Society, and Health (4)

An in-depth exploration of techniques of food selection and preparation, with emphasis on sociocultural, ecological, and health issues.

Prerequisite: HSD 240 Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring-Summer.

DFN 221 - Food, Culture, and Society (3)

Social, economic, psychological, and historic determinants of eating patterns in comparative perspective. Field visits and in-class demonstrations. Nutritional consequences of ethnic food patterns in New York City.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DFN 241 - Nutrition Throughout the Life Cycle (3)

Current concepts and principles in human nutrition with application to age group needs throughout the life cycle. Special attention on assisting normal- and high-risk clients at various stages of the life cycle meeting nutritional needs, preventing and overcoming nutritional problems and maintaining health.

Cross-Listed as: LEH DFN 241/DFN 341. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

DFN 242 - Geriatric Nutrition (3)

Administration of nutritional programs serving the aged. Legislation, surveillance, and cost accountability. Assessment of nutritional status and delivery of nutrition services. Nutrient requirements of the aged. Fieldwork in agencies providing services to the elderly.

Prerequisite: DFN 215 or HSD 240. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DFN 244 - Nutritional Biochemistry (3)

A study of the structure, function, and metabolism of major biological molecules: carbohydrates, lipids, and proteins in relation to food and nutrition. Principles of enzymatic reactions, bioenergetics, and gene expression will be covered.

Prerequisite: CHE 120 and CHE 121; BIO 181 and BIO 182; and HSD 240. Corequisite: CO-REQ: DFN 245. Requirement Designation: Regular Non-Liberal Arts.

DFN 245 - Nutritional Biochemistry Laboratory (1)

Laboratory activities designed to enhance understanding of key concepts in nutritional biochemistry. Emphasis on enzymes, DNA and gene expression, and nutrient metabolism. Varied methodology including simple experiments, demonstrations, computer simulations, and problem-solving exercises.

Prerequisite: CHE 120 and CHE 121; BIO 181 and BIO 182; and HSD 240. Corequisite: DFN 244.

DFN 248 - Nutrition in Health Care (3)

An examination of the delivery of health and nutrition services through the nutrition care process.

Prerequisite: HSD 240 Requirement Designation: Regular Non-Liberal Arts.

DFN 320 - Meal Management (2)

The economics of planning, preparing and serving meals for families and small groups. Adaptation of nutritional meals to inflation including vegetarianism and eating lower on the food chain.

Prerequisite: DFN 220 and HSD 240. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DFN 321 - Experimental Foods (3.5)

The effects on foods of varying ingredients and types of processing. Introduction to experimental food laboratory techniques. Class and individual problems designed to orient students to procedures used in developing new food products.

Prerequisite: DFN 220, CHE 120 and CHE 121. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DFN 330 - Quantity Food Procurement, Production, and Service (3)

Principles of volume food procurement, production, and service for complex food service organizations. Emphasis on quality standards, sanitation, cost control, food service delivery systems, and food service equipment.

Prerequisite: DFN 220 and HSD 240. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DFN 340 - Community Nutrition and Food Justice (3)

Identification and analysis of planning, implementing, and evaluating community nutrition programs in the context of social and food justice.

Prerequisite: HSD 240 Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DFN 341 - Nutrition Throughout the Life Cycle (3)

Concepts and principles in human nutrition throughout the life cycle.

Prerequisite: HSD 240; BIO 181 and BIO 182 or BIO 228. Cross-Listed as: DFN 241. Requirement Designation: Regular Non-Liberal Arts.

DFN 342 - Sports Nutrition (3)

Nutritional and metabolic requirements of physical activity. The health and well-being benefits of an optimal diet-exercise regime for physical activity, exercise and sport participation will be emphasized.

Prerequisite: HSD 240, BIO 181 and BIO 182, CHE 114 and CHE 115, EXS 323. Corequisite: PREREQ or COREQ: CHE 120 and CHE 121. Cross-Listed as: LEH DFN 342/EXS 342. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DFN 347 - Introduction to Diet Therapy (3)

Application of the principles of nutrition to diet therapy including the selection and recommendation of foods for patients with nutrition-related conditions.

Prerequisite: DFN 341 Requirement Designation: Regular Non-Liberal Arts.

DFN 348 - Nutrition in the Management of Disease (3)

Identification of nutritional needs and the planning of nutritional care in disease. Calculating modified diets and planning menus as part of the nutrition care process.

Prerequisite: Major in Nutrition and Dietetics. Requirement Designation: Regular Non-Liberal Arts.

DFN 350 - Trends in Dietetics, Foods, and Nutrition (3)

Topics will be announced in advance each semester.

Prerequisite: DFN 120, DFN 220, DFN 240, and DFN 330. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DFN 369 - Research Methods in Nutrition (3)

Study of research and evaluation concepts in food and nutrition. Data measurement techniques and methods of analyzing and interpreting data using logic and statistics.

Prerequisite: MAT 132 Requirement Designation: Regular Non-Liberal Arts.

DFN 370 - Dietetics, Foods, and Nutrition Practicum (1)

Experiential application of dietetics, foods, and nutrition knowledge and principles.

Prerequisite: Departmental permission is required.

Requirement Designation: Regular Non-Liberal Arts.

DFN 430 - Management of Dietetic Services (3)

Principles of organization and administration, and their application to food service departments within complex organizations, especially productivity standards, budgets, and facilities design.

Prerequisite: DFN 330 and ECO 304 or HSD 266.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DFN 437 - Nutrition Education & Counseling (3)

An examination of the means of assessing nutritional needs. Implementation of oral, written, and technical skills needed for successful nutrition education and counseling.

Prerequisite: DFN 341 Requirement Designation: Regular Non-Liberal Arts.

DFN 441 - Seminar in Professional Practice of Nutrition and Dietetics (2)

Discussion of the professional standards and code of ethics in Nutrition and Dietetics.

Prerequisite: DFN 348 Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DFN 445 - Advanced Nutrition (4)

Advanced study of the digestion, absorption, transport and metabolism of the energy nutrients, and of the metabolic functions of water and selected vitamins and minerals.

Prerequisite: CHE 244 and CHE 245, or DFN 244 and DFN 245; BIO 181 and BIO 182, or BIO 228. Requirement Designation: Regular Non-Liberal Arts.

DFN 448 - Nutrition in the Management of Disease II (3)

A case study approach to the nutritional assessment and management of patients with medical and surgical problems.

Prerequisite: DFN 348 Requirement Designation: Regular Non-Liberal Arts.

DFN 470 - Dietetic Services Field Experience (2)

Field experience arranged in dietetic departments within health care institutions. Application of principles of food and nutritional services.

Prerequisite: DFN 330 and Departmental permission.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DFN 471 - Field Experience in Clinical Nutrition (2)

A minimum of 100 hours of supervised field experience in a health care facility that offers clinical nutritional services. Periodic meetings with the instructor. A paper is required.

Prerequisite: DFN 348 Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DFN 472 - Field Experience in Community Nutrition (2)

A minimum of 100 hours of supervised field experience in community nutrition including community outreach, food production or procurement, nutrition education, health promotion, or health policy. A paper assessing the potential impact of the experience with reference to the professional literature is required.

Prerequisite: DFN 341; HEA 437 (or DFN 437). Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DFN 485 - Independent Study in Dietetics, Foods, and Nutrition (2 (maximum 6 credits))

Independent study in an appropriate field under faculty adviser.

Prerequisite: DFN 120 and 220, HSD 240, and permission of the faculty adviser. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DFN 490 - Honors in Dietetics, Foods, and Nutrition (2 (maximum 6 credits))

Independent research under the supervision of a faculty member, leading to completion of an honors paper.

Prerequisite: Departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DFN 491 - Selected Topics in Dietetics, Foods, and Nutrition (3)

Analysis of current issues in dietetics, foods, and nutrition.

Prerequisite: PREREQ: HSD 240 plus 9 additional credits in DFN. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC - Dance

NOTE: Students must show a valid Physical Activity Card at the first class meeting.

DNC 100 - Dance Workout I (1)

A fundamental skills program which integrates general fitness activities with a selection of modern dance, aerobic and toning techniques.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 101 - Social Dance Forms (1 (may be repeated for up to 2 credits))

Study of social dance forms such as hip hop, salsa and ballroom.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 105 - Modern Dance Fundamentals I (1)

(Closed to DNC majors.) Elementary movement experiences and beginning modern dance. Leotards and tights recommended.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 106 - Classical Soul (2)

Survey of the history and practice of the major dances and music of twentieth century America, including swing, rock and roll, rhythm and blues, and disco. Will feature dance steps along with film and video viewing.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 121 - Beginning Jazz Dance (1)

Study of beginning jazz dance techniques.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 201 - Ballet Principles I (2 (may be repeated for up to 4 credits))

Study and analysis of fundamental techniques of barre, adagio, and petite allegro.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 202 - Ballet Principles II (2 (may be repeated for up to 4 credits))

Continuation of Ballet Principles I.

Prerequisite: DNC 201 or Departmental permission.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 203 - Technique Workshop: Ballet Principles (1 (can be repeated once))

Study of the fundamentals of ballet technique.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 204 - Technique Workshop: Intermediate Ballet (1 (can be repeated once))

Intermediate study of ballet techniques introduced in DNC 201.

Prerequisite: DNC 201 Requirement Designation: Regular Non-Liberal Arts.

DNC 207 - Special Topics in Latin Dance I (3 (may be repeated for up to 6 credits))

Research, analysis and practice of the fundamentals of Latin dance techniques.

Requirement Designation: Regular Liberal Arts.

DNC 208 - Technique Workshop Latin Dance I (1 (may be repeated for up to 2 credits))

Practice of the fundamentals of Latin dance techniques.

Prerequisite: DNC 207 or departmental permission

Requirement Designation: Regular Non-Liberal Arts.

DNC 209 - Dance Departmental Production (1 (may be repeated for up to 2 credits))

Practical application of principles and theories of dance.

Prerequisite: Departmental permission.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 210 - Hip Hop, House and Vogue I (3 (may be repeated for up to 6 credits))

Introductory-level research, analysis and practice of hip hop, house, and vogue. Students learn basic steps, practice improvising within these styles, and develop choreography.

Requirement Designation: Regular Liberal Arts.

DNC 211 - Modern Dance/Ballet I (3 (may be repeated for up to 6 credits))

Research, analysis and practice of modern dance and ballet techniques.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 212 - Modern Dance Principles II (3 (may be repeated for up to 6 credits))

Continuation of Modern Dance Principles I.

Prerequisite: DNC 211. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 213 - Technique Workshop: Modern Dance/Ballet I (1 (may be repeated for up to 2 credits))

Practice of fundamental ballet and modern dance techniques.

Prerequisite: DNC 211 Requirement Designation: Regular Non-Liberal Arts.

DNC 220 - Movement for Actors and Dancers (3)

Study and practice of recognized physical theatre techniques to develop students' performance skills.

Cross-Listed as: LEH DNC 220/THE 220. Requirement Designation: Regular Liberal Arts.

DNC 222 - The Body and Society (3)

This course examines the way the body is represented and experienced in society.

Requirement Designation: Flexible Core - Individual and Society.

DNC 225 - Tools for Digital Storytelling (3)

Learning the essential tools for digital storytelling utilizing multimedia performance techniques like video, projections, digital soundscapes, and compilation and editing in the production of multimedia stage productions. Practical application of principles and theories of multimedia arts production. Also introduces the use and application of multimedia performing arts software products.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 227 - Theory and Practice of Dance in Education (1)

Experimentation with the techniques of folk, ethnic, and contemporary forms, and analysis of their role in education.

Prerequisite: Either DNC 101 or DNC 201; or Departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 230 - Body and Wellness I (2)

Beginning-level research, analysis and practice of breathing and movement techniques to improve well-being. Students will explore embodied learning through the lens of different somatic traditions.

Cross-Listed as: THE 230. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

DNC 235 - Dance Perspectives (3)

The nature of dance, its forms, practices, and purposes, and its relevance to society. Students will attend performances and participate in occasional movement exercises related to topics of study.

Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

DNC 240 - Technique Workshop: Hip Hop, House and Vogue I (1 (may be repeated for up to 2 credits))

Beginning-level practice of hip hop, house and vogue.

Prerequisite: DNC 210 or Departmental permission
Requirement Designation: Regular Non-Liberal Arts.

DNC 249 - Rhythmic Analysis of Movement (1)

(Required of DNC majors. Open to students interested in therapy, recreation, and kindergarten and early childhood education.) Survey course in basic rhythmic movements with relation to the musical fundamentals. Use of percussion.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 251 - West African and Diasporic Dance I (3 (may be repeated for up to 6 credits))

Beginning-level research, analysis and practice of West African and Diasporic dance forms.

Requirement Designation: Regular Liberal Arts.

DNC 261 - Technique Workshop: West African and Diasporic Dance I (1)

Beginning-level practice of West African and Diasporic dance forms.

Prerequisite: DNC 251 Requirement Designation: Regular Non-Liberal Arts.

DNC 267 - Advanced Modern Dance (1)

Advanced Modern Dance

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 302 - Intermediate Ballet (2 credits (may be repeated for up to 4 credits))

Continuation of Ballet Principles II.

Prerequisite: DNC 202 or Departmental Permission.

DNC 303 - Ballet Principles III (2 (may be repeated for up to 4 credits))

Advanced techniques of barre, adagio, and petite allegro.

Prerequisite: Either DNC 202 or Departmental permission.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 304 - Technique Workshop: Advanced Ballet (1 (can be repeated once))

Advanced study of ballet principles introduced in DNC 303.

Prerequisite: DNC 303. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 306 - Production Workshop II (1 (may be repeated for up to 2 credits))

Students will work on a departmental production in the areas of lighting, sound, costume, stage management, scenery and multimedia.

Prerequisite: THE 204 Cross-Listed as: THE 306.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 307 - Multimedia Post-Production Workshop (1)

Practical application of principles and theories of multimedia arts post production through participation in Department multimedia projects.

Prerequisite: FTS 224 or Departmental Permission. Cross-Listed as: LEH DNC 307/THE 307. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 309 - Advanced Dance Workshop (3)

Analysis and application of principles and theories of dance through extensive participation in a Department-sponsored production. Advanced analysis and interpretation applied to such activities as performance, management, design and construction.

Prerequisite: DNC 209 Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 311 - Modern Dance/Ballet II (3 (may be repeated for up to 6 credits))

Research, analysis and practice of intermediate techniques in modern dance/ballet.

Prerequisite: DNC 211 or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

DNC 312 - Advanced Modern Dance (3)

Advanced theory and technique with emphasis on choreographic style.

Prerequisite: DNC 311 or Departmental permission. Cross-Listed as: LEH DNC 312/DNC 411. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 313 - Technique Workshop: Modern Dance/Ballet II (1 (may be repeated for up to 2 credits))

Intermediate-level practice of modern dance/ballet forms.

Prerequisite: DNC 211 or DNC 311 Requirement Designation: Regular Non-Liberal Arts.

DNC 314 - Advanced Production and Design Workshop (3)

Students will assist or participate in a Department multimedia project/production during the semester in an area of their choosing; scenery, lighting, costumes, sound, or stage management. This course is meant for advanced students in production and design.

Prerequisite: THE 204 and THE 306 or departmental permission. Cross-Listed as: THE 314. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 316 - Educational and Recreational Programs in Dance (2)

Folk, square, and social dance in educational and recreational programs.

Prerequisite: DNC 101 or Departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 317 - Special Topics in Latin Dance II (3 (may be repeated for up to 6 credits))

Intermediate-level research, analysis and practice of Latin dance techniques.

Prerequisite: DNC 207 or departmental permission Requirement Designation: Regular Liberal Arts.

DNC 318 - Technique Workshop: Latin Dance II (1 (may be repeated for up to 2 credits))

Intermediate-level practice of Latin dance techniques.

Prerequisite: DNC 207 or DNC 317 Requirement Designation: Regular Non-Liberal Arts.

DNC 320 - Movement for Actors and Dancers (3)

Techniques in movement, mime, and style. Exploration from the traditional to the experimental.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 321 - Dance for Musical Theatre (3 (may be repeated for up to 6 credits))

Study and practice of musical theatre dance forms such as jazz and tap.

Prerequisite: One 200-level dance course or Departmental Permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 3210 - Hip Hop (3 (may be repeated for up to 6 credits))

Study and analysis of hip hop dance forms.

Prerequisite: One 200-level dance course or Departmental permission.

DNC 322 - Hip Hop, House and Vogue II (3 (may be repeated for up to 6 credits))

Introductory-level study and analysis of urban dance forms like hip hop, house, and vogue. Students learn basic steps, practice improvising within these styles, and develop choreography.

Prerequisite: DNC 210 or departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

DNC 323 - Improvisation (3)

Methods of improvisation drawn from both dance and theatre.

Prerequisite: DNC 220 or THE 220 or Departmental Permission. Cross-Listed as: LEH DNC 323/THE 323. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 330 - Body and Wellness II (2)

Advanced study and practice of breathing and movement techniques to improve well-being. Students will explore

embodied learning through the lens of different somatic traditions.

Prerequisite: DNC (THE) 230 or departmental permission.
Cross-Listed as: THE 330. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

DNC 332 - Technique Workshop: Hip Hop, House and Vogue II (1 (may be repeated for up to 2 credits))

Intermediate-level practice of hip hop, house, and vogue.

Prerequisite: DNC 210 or DNC 322 Requirement Designation: Regular Non-Liberal Arts.

DNC 340 - Mind-Body Connection (3)

Mind-body connection from a scientific, medical, philosophical and social science perspective.

Prerequisite: One DNC or THE class or 60 credits.
Requirement Designation: Liberal Arts.

DNC 345 - Choreography and Improvisation (3)

The development of the creative process by means of improvisation and a variety of choreographic projects from the traditional to the experimental.

Prerequisite: 3 credits in DNC at the 200- or 300- level or Departmental permission. Requirement Designation: Regular Liberal Arts.

DNC 350 - Workshop in Music and Movement (2 (maximum 4 credits))

(Limited to qualified REC, MUS, and THE majors.) A survey of the rhythmic bases of movement; the study of dance accompaniment; the analysis of traditional and contemporary sources of sound and music applicable in class and in choreographic and theatre arts situations.

Prerequisite: DNC 249 or Departmental permission.
Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 351 - Dance Repertory (3 (may be repeated for up to 6 credits when topic changes))

Advanced theory and technique with extended sequences and excerpts from the repertory of professional choreographers. Guest artists and choreographers showcasing various stylistic sequences from several repertories.

Prerequisite: One dance class and Departmental Permission.
Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 353 - Performance Group: Modern (1)

Advanced theory and technique with extended sequences from the repertory of professional choreographers of the past and present. Specifically intended for members of the student performing companies.

Prerequisite: Departmental permission and audition.
Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 354 - Performance Group: Ballet (1)

Advanced theory and technique with extended sequences from the repertory of professional choreographers of the past and present. Specifically intended for members of the student performing companies.

Prerequisite: Departmental permission and audition.
Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 355 - Performance Group: Ethnic (1)

(Any combination of the above courses may be taken for a maximum of 4 credits.) Advanced theory and technique with extended sequences from the repertory of professional choreographers of the past and present. Specifically intended for members of the student performing companies.

Prerequisite: Departmental permission and audition.
Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 356 - West African and Diasporic Dance II (3 (may be repeated for up to 6 credits))

Intermediate-level research, analysis and practice of West African and Diasporic dance forms.

Prerequisite: DNC 251 or departmental permission
Requirement Designation: Regular Liberal Arts.

DNC 360 - Selected Topics in Dance (3 (may be repeated for up to 6 credits))

Consideration of recent developments in dance.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

DNC 366 - Technique Workshop: West African and Diasporic Dance II (1 (may be repeated for up to 2 credits))

Intermediate-level practice of West African and Diasporic dance forms.

Prerequisite: DNC 251 or DNC 356 Requirement Designation: Regular Non-Liberal Arts.

DNC 371 - Dance Internship (3)

Supervised work in a performing arts institution to develop skills in production, administration, casting, rehearsals, costuming, and design.

Prerequisite: Satisfactory completion of 45 college credits and Departmental approval. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 405 - Seminar and Practicum in Skills and Performance (3)

This course is designed to prepare advanced students for a comprehensive practicum in technique and composition.

Prerequisite: DNC 311, or DNC 345, or Departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 411 - Advanced Modern Dance (3 (may be repeated for up to 6 credits))

Advanced theory and technique, with emphasis on choreographic style.

Prerequisite: DNC 311 or Departmental permission. Cross-Listed as: LEH DNC 312/DNC 411. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 412 - Technique Workshop: Advanced Modern Dance (1 (can be repeated once))

Advanced study of modern dance principles introduced in DNC 411. Specifically intended for dance majors.

Prerequisite: DNC 411. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 420 - Dance History (3)

Philosophical and historical principles of twentieth- and twenty-first-century dance, with use of applied techniques and compositional studies.

Prerequisite: Satisfactory completion of 60 college credits or DNC 235. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

DNC 421 - Technique Workshop: Dance for Musical Theatre (1 (may be repeated for up to 2 credits))

Continuation of principles introduced in DNC 321.

Prerequisite: DNC 321 or Departmental Permission. Requirement Designation: Regular Non-Liberal Arts.

DNC 4210 - Technique Workshop: Urban Dance (1 (may be repeated for up to 2 credits))

Advanced studies in Urban Dance.

Prerequisite: DNC 3210 or DNC 322 or DNC 422

DNC 422 - Special Topics in Urban Dance II (3 (may be repeated for up to 6 credits))

Intermediate-level study and analysis of urban dance forms like hip hop, house, and vogue. Students learn the history of the form as well as steps and choreography within the selected style.

Prerequisite: One DNC class or departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

DNC 425 - Devised Multimedia Performance (3)

Students will study and practice different methods of devised multimedia performance drawn from both theatre and dance.

Prerequisite: DNC 323 or THE 323 and DNC 225 or THE 225. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 445 - Advanced Student Performance Workshop (1 (may be repeated for up to 3 credits))

Practical application of principles and theories of dance through participation in a Department dance concert. Dance faculty will supervise students on the creation of new work. Emphasis on writing, communication, and technical skills necessary to dance artists.

Prerequisite: DNC 345. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 449 - Working in the Performing Arts (3)

Introduction to career paths in the performing arts. Includes audition techniques, professional writing, reel preparation and meetings with professionals in the field.

Prerequisite: Two Dance Courses or Departmental Permission. Cross-Listed as: LEH DNC 449/THE 449. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

DNC 450 - Choreographic Workshop I (1 (maximum 2 credits))

(Limited to qualified DNC, ART, MUS, and THE majors.) Individual choreographic assignments, under faculty guidance.

Prerequisite: Either DNC 345 or Departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 451 - Choreographic Workshop II (2)

(Specifically designed for graduating dance majors.) Special choreographic assignments designed to lead to a senior thesis project.

Prerequisite: DNC 345 and Departmental Permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

DNC 452 - Student Repertory Workshop (3 (maximum 6 credits))

Student repertory in performance. This course is designed to analyze and incorporate combined elements of advanced theatrical production and performance: (1) staging works for the proscenium theatre, theatre in the round, and varied environments; (2) analyzing the use of film, slides, props, costumes, collages, and various multimedia elements in production; and (3) studying the elements and techniques of performance.

Prerequisite: Either DNC 267 and DNC 451 and THE 234 or Departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

DNC 460 - Advanced Technique Practicum (3)

An intensive technique class sequence at a partner professional dance training center for dance majors in their senior year.

Prerequisite: Departmental permission Requirement Designation: Regular Non-Liberal Arts.

DNC 485 - Dance Honors (3)

Individual study, under faculty guidance, leading to completion of either an honors essay or a production book or reel in the case of creative performance.

Prerequisite: Departmental Permission and 3.5 GPA in the major. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

DNC 493 - Special Projects (3 (may be repeated for up to 6 credits))

Special problems, research, and production and/or performance under faculty guidance.

Prerequisite: Departmental Permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

DNC 495 - Multimedia Performing Arts Project (2)

Multimedia capstone project in performing arts.

Prerequisite: Departmental Permission. Cross-Listed as: THE 495. Requirement Designation: Regular Non-Liberal Arts.

DNC 4951 - Honors Multimedia Performing Arts Project (3)

The senior honors capstone project, consisting of researching, directing, and producing a multimedia project supervised by a faculty mentor.

Prerequisite: DNC 4950, 3.5 GPA in the major, and Departmental Permission. Cross-Listed as: LEH DNC 4951/THE 4951.

DST - Disability Studies

DST 200 - Introduction to Disability Studies (3)

The experience of disability through a variety of lenses and disciplinary tools, including sociology, history, philosophy, education, science, law, medicine, economics, political science and, literature and film.

Requirement Designation: Individual and Society. Offered: Fall-Spring.

DST 311 - Social Science Perspectives on Health and Disability (4)

Use of quantitative social science methods to understand health and disability. Topics include definitions of health and

disability, demographic information on health and disability, library research, development of hypotheses, primary data analysis, and interpretations of research findings on health and disability. Extensive use of computers.

Prerequisite: SOC 166 or DST 200 or any 200-level Sociology course. Offered: Fall-Spring.

DST 333 - Sociology of Disability (3)

The role of social, political, economic and historical factors that have produced the condition of disability. Ways in which disability parallels and often overlaps with other minority statuses.

Cross-Listed as: LEH DST 333/SOC 333. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

DST 336 - Disability, Ethics & the Body (3)

Examination of how disability is defined and of moral issues surrounding the treatment of people with disabilities. Topics may include the role of the body in the definition and experience of disability, privacy issues, disability identity, and the moral issues involved in eugenics, prenatal screening, rehabilitation, and social services for disabled people.

Cross-Listed as: LEH DST 336/PHI 336. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

DST 365 - Special Topics in Disability Studies (3 (May be repeated up to 6 credits.))

Various topics in Disability Studies.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

DST 381 - Readings in Disability Studies (3 (may be repeated for a maximum 9 credits))

Topics to be arranged between student and instructor.

Prerequisite: Department permission. Offered: Fall-Spring.

DST 382 - Fictions of Disability (3)

Representations of disability in literature, memoir, critical and theoretical publications, popular texts. Challenging common negative or idealizing stereotypes; understanding how storytelling shapes ideas about disability; analyzing the intersection of disability with other tropes of human disqualification, including race, gender, and sexuality.

Requirement Designation: Regular Liberal Arts.

ECE - Early Childhood Ed

ECE 300 - Education in Historical, Political, and Sociocultural Contexts-Birth to Grade 6 (3)

Study of the historical, political, and sociocultural contexts of urban education and the relationship between social change and change in schools. Emphasis on bilingual/bicultural, multicultural, and special education at early childhood and

childhood levels. Use of media and technology as appropriate. Note: Requires visits to early childhood and childhood settings with diverse populations and contrasting social and economic environments and the development of an academic portfolio.

Prerequisite: Declaration of Early Childhood Education minor required. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 301 - The Child in Historical, Political and Sociocultural Contexts: Child Study and Development—Birth to Grade 6 (3)

Study of theories of development and learning from birth through childhood that include all developmental domains as well as sociocultural, multicultural, and multilingual perspectives. Emphasis on their application to children in early childhood, childhood, multilingual, multicultural, and inclusive settings.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECE 302 - Children, Families, Communities, and Schools in Historical, Political and Sociocultural Contexts—Birth to Grade 6 (3)

Study of the historical, political, sociocultural contexts of urban communities, schools, and community-based organizations and the impact of these contexts on families. Emphases include how schooling is perceived by diverse families and communities, and how teachers can partner with families to educate for equity.

Prerequisite: Declaration of Early Childhood Education minor required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECE 304 - Foundations of Early Language and Literacy Development, Birth to Grade 2 (3)

Research and theory of the relationship between language acquisition and emergent/early literacy development in children from infancy to age eight. Emphasis on children's language and literacy development in multicultural, multilingual home and educational settings. Includes the study of language development for children with special needs. Includes 10 hours of field work in home and educational settings with diverse populations and contrasting social and economic environments.

Prerequisite: ECE 301 and Declaration of ECCE Minor. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECE 310 - The Spanish-Speaking American in the Urban School Setting (3)

Study of the contemporary Spanish-speaking American in the urban setting. Special emphasis on opportunities to investigate

the education of, and environmental influences on, the Puerto Rican.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 311 - The Teaching Profession in Historical, Political and Sociocultural Contexts —Birth to Sixth Grade (3)

Study of the professional lives of early childhood and childhood teachers through culturally sustaining and relevant pedagogies as well as the investigation of historical foundations, political, and sociocultural contexts of schools. Study of teachers' responsibilities in meeting the needs of specific populations of children such as children with disabilities and multilingual learners.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECE 312 - Supporting Cognitive Development for Infants & Toddlers (Practicum) (3)

Knowledge, skills, and dispositions for engaging in culturally responsive and culturally sustaining pedagogy to support the cognitive development of infants and toddlers from birth to age 3.

Prerequisite: Observation/15 hours of fieldwork required. Requirement Designation: Regular Liberal Arts.

ECE 313 - Supporting Social Emotional Development for Infants & Toddlers (3)

The domains of development, strategies for promoting healthy development, primary caregiving, continuity of care, and building positive relationships will be explored.

Requirement Designation: Regular Liberal Arts.

ECE 314 - Supporting Language & Early Literacy Development for Infants & Toddlers (3)

Supporting connections between the language practices of mono/bi/multilingual families-communities and their effect on infants/toddlers developmental milestones.

Requirement Designation: Regular Liberal Arts.

ECE 315 - Supporting the Exceptional Infant & Toddler Learner (3)

Supporting the exceptional learning needs of infants/toddlers through observations, interactions, and critical reflection.

Requirement Designation: Regular Liberal Arts.

ECE 350 - Special Studies in Elementary Education (1-3)

(May be reelected for credit with permission of Departmental chair; topics to appear on transcript.) Investigation of theories, issues, methods, materials, and curriculum practices in N-VI educational settings; topics and credits to vary and be announced each semester.

Prerequisite: Departmental permission.

ECE 402 - Teaching History and Social Studies in the Elementary School (N-VI) (3)

The selection, guidance, and evaluation of learning experiences in relation to the objectives of the program in nursery school through Grade VI, with specific emphasis on methods and materials in the areas of history and the social sciences: classroom organization, planning, and evaluation; guided observations. Opportunity for the students to tutor in public schools. Students will participate in supervised field experiences.

Prerequisite: ECE 301 and successful completion of the Requirement in Oral English. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 403 - Teaching Science in the Elementary School (N-VI) (3)

A course designed to acquaint students with the content and objectives of the early childhood and elementary school science curricula and the methods, materials, and resources appropriate for teaching N-VI.

Prerequisite: Either ECE 301 and successful completion of the Requirement in Oral English. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 404 - Teaching Mathematics in the Elementary School (N-VI) (3)

Contemporary approaches to the organization and teaching of mathematics in the elementary school. Teaching for understanding, lesson planning, and evaluation of mathematics learning, and appropriate remedial and enrichment experiences. References to curriculum material, syllabi, sources, and research reports. Students will participate in supervised field experiences.

Prerequisite: Either ECE 301 or ECE 416, or equivalents; a passing grade on the Departmental Mathematics Competency Examination; and completion of the Requirement in Oral English. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 405 - Art in Elementary School (N-VI) (3)

Exploration of a variety of art media. Development of individual competencies in these media. Principles, methods, and classroom organization and planning for effective instruction. Students will participate in supervised field experiences.

Prerequisite: Either ECE 301. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 414 - Methods and Materials in Early Childhood I (3)

(Constitutes a two-semester sequence with ECE 415.) Study of the mental, social, emotional, and cognitive needs, interests, and experiences of children (three through five years

of age) as the basis of developing suitable programs and for formulation of criteria for the selection and evaluation of materials, as well as for the creation of an appropriate environment. The course will develop specific methods and content in the teaching of social studies, science, arithmetic, and language arts. Health, nutrition, sexuality, and safety in early childhood will be included. Students will spend time in laboratory, directed observation, or other supervised field experiences.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 415 - Methods and Materials of Early Childhood II (3)

Continuation of ECE 414. Emphasis will be on primary grades.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 416 - Methods of Teaching Reading in the Primary Grades (N-III) (3)

A study of research in reading and reading methodology including reading readiness, development of meaning and sight vocabularies, structural and phonetic analysis, formal and informal techniques and measures for assessing pupil needs, organizational patterns for group and/or individual instruction, and beginning reading experiences and/or materials. Integration of research with classroom experience. Students will participate in supervised field experiences.

Prerequisite: ECE 301 or the equivalent; and completion of the Requirement in Oral English. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 419 - Planning Pre-Kindergarten Programs and Kindergarten (3)

Child development experiences and activities that serve as the basic framework for planning consistent and continuous programs in nursery school and kindergarten. References are made to public and private schools, day-care centers, Head Start, child-development centers, and current program trends in early childhood education.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 420 - Methods of Teaching Reading in the Middle Grades (IV-VI) (3)

A study of research in reading and reading methodology including primary grade skills development for middle-grade pupils; enlargement of meaning and recognition vocabularies; development of study skills, critical reading, and content reading; formal and informal techniques and measures for assessing pupil needs; organizational patterns for group and/or individual instruction; middle-grade reading experiences

and/or materials. Integration of research with classroom experience. Students will participate in supervised field experiences.

Prerequisite: ECE 301 and ECE 416 and completion of the Requirement in Oral English. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 427 - Methodology of Teaching English to Speakers of Other Languages, Birth to Grade Six (3)

This course is designed to provide an overview of second language acquisition and ESL teaching and assessment methodologies. Includes 10 hours of fieldwork with English language learners in urban early childhood and childhood educational settings.

Prerequisite: Admission to an Early Childhood or Childhood Minor to Master's track. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 429 - Introduction to Parent/Teacher/Child Relationships in Early Childhood Settings (3)

Study of parent/teacher/child relationships in the early childhood program. The development of constructive relationships among parent, teacher, and child.

Prerequisite: ECE 414. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 430 - Literacy and Social Studies in Early Childhood Bilingual Education-Birth to Grade 2 (4)

Exploration of the diverse ways that infants, toddlers, and young bilingual, bicultural children develop language and literacy and an understanding of basic human needs and human interdependence in family, early care, and school settings. Assessment and instruction in the native and second languages within an integrated curriculum. Use of technology and media as appropriate.

Prerequisite: Successful completion of Requirements for Professional Coursework (see the preceding information). Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 431 - Literacy and Social Studies in Early Childhood Education-Birth to Grade 2 (4)

Exploration of the ways in which young children develop language and literacy and an understanding of basic human needs and interdependence in family, early care, and school settings. Assessment and instructional strategies within an integrated curriculum. Use of technology as appropriate.

Prerequisite: Successful completion of Requirements for Professional Coursework (see the preceding information). Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 432 - Mathematics and Art in Early Childhood Education-Birth to Grade 2 (4)

Exploration of the ways in which young children develop an understanding of mathematical concepts and art in family, early care, and school settings. Approaches to formal and informal assessment of children's development in mathematics and art in an integrated curriculum. Use of media and technology as appropriate.

Prerequisite: Successful completion of Requirements for Professional Coursework (see the preceding information). Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 433 - Science and Music in Early Childhood Education-Birth to Grade 2 (4)

Exploration of the ways young children develop science and music literacies in family, early care, and school settings. Application of assessment and instructional strategies, media, and technology in an integrated curriculum.

Prerequisite: Successful completion of Requirements for Professional Coursework (see the preceding information). Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 434 - Policies and Practices for Learners with Disabilities in Early Childhood and Childhood Settings (3)

Policies and practices that classroom teachers in Childhood and Early Childhood need to know to effectively meet the needs of children with disabilities.

Prerequisite: Successful completion of requirements for Professional Coursework. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 435 - Bilingualism for Classroom Teachers, Birth to Grade Six (3)

Sociolinguistic and psycholinguistic foundations and theories of first and second language acquisition in bilingual early childhood and childhood educational contexts. Includes the study of assessments of oral language and literacy proficiency of bilingual children in educational contexts, as well as 10 hours of fieldwork with English language learners in urban early childhood and childhood educational settings.

Prerequisite: Admission to an Early Childhood or Childhood Minor to Master's track. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 436 - The Young Child and the Arts, Birth to Grade 2 (3)

Exploration of ways in which young children, including young children who are learning English as a second language, and young children with special needs, develop aesthetic appreciation of and experiences in the arts in family, neighborhood, early care, and school settings. Documentation

and assessment of children's artistic development and expressions of ideas through art using multiple artistic modalities. Integration of appropriate technology tools consistent with National and State Standards and the needs of children with disabilities. Visits to early childhood settings with diverse populations and development of an academic portfolio. 10 hours of fieldwork required.

Prerequisite: Admission to a Minor to Master's track in Early Childhood Education or Early Childhood Education with a Bilingual Extension. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 438 - The Young Child and Music, Birth to Grade 2 (3)

Exploration of ways in which young children, including young children who are learning English as a second language, and young children with special needs, develop music appreciation and learn to create music in family, neighborhood, early care, and school settings. Documentation and assessment of children's musical development and expressions of ideas through music. Integration of appropriate technology tools consistent with National and State Standards and the needs of children with disabilities. Visits to early childhood settings with diverse populations and development of an academic portfolio.

Prerequisite: Admission to a Minor to Master's track in Early Childhood Education or Early Childhood Education with a Bilingual Extension. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 444 - Music in the Elementary School (N-VI) (3)

Exploration of the musical literature appropriate for children in this age group. Development of the ability to learn new songs independently and to transcribe simple original melodies. Methods and materials of instruction in a program, including singing, playing, dancing, listening, music reading, creating, and the use of instruments. Students will participate in supervised field experiences.

Prerequisite: ECE 301. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 445 - Physical Education in the Elementary School (N-VI) (2)

The development of competencies, together with the methods and materials of instruction in physical education, which include health, safety procedures, creative rhythmic activities, games, folk and square dancing, and athletics.

Prerequisite: One semester of physical education and current physical-activity card. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 481 - Supervised Student Teaching-Pre-K to Grade 2 (4)

Student teaching in varied settings that include culturally diverse populations, students with disabilities, and students of different age/grade levels (Pre-K, K, and Grades 1-2). Requires five full days each week in a school or early childhood setting.

Prerequisite: Successful completion of Departmental minor, ECE 431, ECE 432, and Requirements for Professional Practice (see the preceding information). Corequisite: ECE 483. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 482 - Supervised Student Teaching in Bilingual Settings-Pre K-Grade 2 (4)

Student teaching in varied settings that include culturally diverse populations, students with disabilities, and students of different age/grade levels (Pre-K, K, and Grades 1-2) in bilingual settings. Requires five full days each week in a school or early childhood setting.

Prerequisite: Successful completion of Departmental minor, ECE 430, ECE 432, and Requirements for Professional Practice (see the preceding information). Corequisite: ECE 483. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECE 483 - Student Teaching Seminar (2)

Examination of the complexities of teaching. Emphases on developing reflective practice, promoting good health and safety, implementing strategies for conflict resolution and violence prevention, and identifying child abuse or substance abuse.

Prerequisite: Successful completion of Requirements for Professional Practice (see the preceding information). Corequisite: Supervised Student Teaching. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ECO - Economics

ECO 166 - Introduction to Macroeconomics (3)

National income components and their measurement, unemployment rate, and price levels. Determinants of aggregate demand and output. Effects of government spending, taxation, and monetary policy on national income, employment, and the rate of inflation.

Prerequisite: BBA 168 anti-requisite Requirement Designation: Flexible Core - Individual and Society. Offered: Fall-Spring.

ECO 167 - Introduction to Microeconomics (3)

Determination of demand, supply, and equilibrium prices and quantities. Firm costs in the short and long run. Study of

competitive markets, monopolies, and oligopolies and public policy implications of these different markets.

Prerequisite: BBA 169 anti-requisite Requirement

Designation: Flexible Core - Individual and Society. Offered: Fall-Spring.

ECO 300 - Intermediate Macroeconomics (3)

Determination of national income and interest rates through the interaction of real and monetary sectors; effect of fiscal and monetary policies on economic stability and growth; and macroeconomic relations among open economies.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 301 - Intermediate Microeconomics (3)

Theory of consumer choice among two or more competing goods; theory of the production with two substitutable inputs. Price-output determination in alternative market structures and their implications for efficiency and welfare.

Prerequisite: ECO 167. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 302 - Economic Statistics (3)

Descriptive statistical methods used in economic analysis; probability distributions; sampling and estimation; confidence intervals; hypothesis testing; correlation and linear regression.

Prerequisite: ECO 166 and MAT 132 or MAT 171 or MAT 172 or MAT 174 or MAT 175. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 304 - Principles of Management (3)

An introduction to the theory and practice of planning, organizing, and controlling the physical, financial, and informational resources of an organization, with a special emphasis on motivating and leading the human resource component.

Cross-Listed as: LEH ECO 304/BBA 204. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 305 - Consumer Economics (3)

Financial decision-making strategies in education, health, careers, housing, credit, insurance, and investment from the point of view of the consumer and family.

Prerequisite: BBA 168 and BBA 169 or ECO 166 and ECO 167. Cross-Listed as: LEH BBA 305/ECO 305. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 306 - Money and Banking (3)

Financial markets, price determination, monetary theory & policy, financial assets, interest rates, and the Federal Reserve System. Use of macroeconomic models and monetary theory

to analyze financial markets, inflation, unemployment and economic growth.

Prerequisite: ECO 166 and ECO 167. Requirement

Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 311 - Public Economics (3)

Types of market failures and rationales for government intervention in economic activity; theory of public goods; collective choice; cost-benefit analysis; positive and normative aspects of expenditure and taxation policies; the U.S. tax structure.

Prerequisite: ECO 301. Cross-Listed as: LEH ECO 311/BBA 207. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 312 - Sociology of Economic Development (3)

The interrelationship between social factors and economic development. Issues examined include socio-political change, industrialization, economic policy, globalization, sustainability, and inequality.

Cross-Listed as: LEH BBA 308/SOC 312/ECO 312.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 313 - Economics of Aging (3)

Aging in the context of health and economic environments, with attention to concomitant social, legal, and political issues, including saving for old age, retirement, design and viability of social security systems, elder care, inheritance, and the role of institutions within the micro- and macroeconomic environment.

ECO 314 - Urban Economics (3)

Theories of urban location and space allocation; analysis of urban problems such as neighborhood decay, poverty, substandard housing, fiscal imbalance, housing segregation, and traffic congestion.

Prerequisite: ECO 166 and ECO 167. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 316 - Economics of Inequality (3)

Economic status of minorities and women in the U.S.; statistical and demographic analysis of inequality.

Prerequisite: ECO 166, ECO 167, and ECO 302. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 320 - History of Economic Thought (3)

Development of key ideas of the major schools of economic thought with special reference to the sociophilosophic contexts within which these ideas are embedded

Cross-Listed as: LEH ECO 320/ECO 400. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 321 - History of American Economic and Social Development (3)

Economic, social and political interaction among different sectors; effects of public policy on urban/rural, commercial/industrial, public/private exchange processes.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 322 - Economic History of Developing Countries (3)

The role of social institutions and human resources; the effects of rural development, urbanization, and globalization.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 323 - Economic Development in Latin America (3)

Examination of major economic trends in Latin American economic development and the impact of North American policy. Special emphasis is placed on Latin American views of economic growth and on foreign intervention in particular areas such as Brazil, Mexico, Puerto Rico, Cuba, and Chile.

Prerequisite: Either ECO 166 and ECO 167 and one additional 3-credit ECO course or Departmental permission. Cross-Listed as: LEH ECO 323/LAC 323. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 324 - International Economics (3)

Theory of international relations: trade, investment, growth, balance of payments, currency values, and policy issues; trade restrictions, common markets, multinational firms, imperialism, and international monetary reform.

Prerequisite: BBA 168 and BBA 169 or ECO 166 and ECO 167. Cross-Listed as: LEH ECO 324/BBA 324. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 325 - Society, Economy, and Polity in the Middle East (3)

Analysis and evaluation of the interactions among these three spheres of human activity as they pertain to the Middle East.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 326 - Labor Economics (3)

History and present status of organized labor force and trade unions; collective bargaining; unemployment and labor income; hours, wage rates, and working conditions; and government regulations of industrial relations.

Prerequisite: BBA 168 and BBA 169 or ECO 166 and ECO 167. Cross-Listed as: LEH BBA 326/ECO 326. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 327 - Comparative Labor Movements (3)

See Department for Description.

Cross-Listed as: LEH POL 327/ECO 327. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 331 - Industrial Organization and Regulation (3)

Intersection of businesses and government institutions in market economies. Sources of monopoly power, impact of monopoly on economic efficiency, strategic interactions among firms, and government policies to maintain competition.

Prerequisite: ECO 167. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 332 - Economics of Marketing (3)

Nature and functions of marketing; consumer motivation and behavior; marketing institutions at the wholesale and retail levels; market research, product planning, pricing policies, sales management, and promotion; and government regulation.

Cross-Listed as: LEH ECO 332/BBA 332. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 334 - Intermediate Accounting I (3)

Overview of the accounting process and the theory underlying financial accounting. A detailed study of the balance sheet: assets and liabilities.

Cross-Listed as: LEH ECO 334/ACC 334. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 338 - Law and Economics (3)

Applications of price theoretic reasoning to legal institutions and the legal perspective to economic phenomena.

Prerequisite: ECO 167. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 343 - Analysis of Financial Statements (3)

Types of financial reports and methods of interpretation. Evaluation of specific companies and industries. Price-level changes, "cash flow" analysis, and funds statements.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 344 - Economic Evaluation of Health Programs (3)

Introduces students to concepts related to the assessment of health and healthcare from an economic point of view, discusses measurements of opportunity costs, monetary benefits and health outcomes.

Prerequisite: ECO 166 and ECO 167; BBA 303 or ECO 302; or Departmental Permission Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 345 - Health Economics (3)

An analysis of healthcare markets and structures; demand and supply for healthcare; insurance and funding mechanisms; performance of the health care sector from a theoretical

perspective as well as provides an analysis of the United States healthcare system compared to other systems.

Prerequisite: ECO 166 and ECO 167. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 370 - Internship in Economics (3)

One hour of weekly class meetings plus eight to ten hours of supervised internship in a setting where students can combine their academic education in economics with work experience in their area of study.

Prerequisite: PREREQ: Departmental permission after student has located and arranged for the internship with an organization. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 385 - Independent Study in Economics or Accounting (3 (may be repeated for a maximum of 6 credits))

Individual study and research of a specific topic under the direction of a faculty member.

Prerequisite: ECO 166, ECO 167 and ECO 302. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 400 - Development of Economic Thought (3)

The development of economic ideas of the major schools of economic thought, with special reference to the sociophilosophic contexts within which the ideas are embedded.

Prerequisite: ECO 300 and ECO 301. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 401 - Introduction to Mathematical Economics (3)

Mathematical models used in economic science, such as constrained and unconstrained optimization; Lagrangean and Kuhn-Tucker multipliers; linear programming.

Prerequisite: ECO 300, ECO 301, and MAT 174 or MAT 175. Requirement Designation: Regular Liberal Arts.

ECO 402 - Econometrics (4)

Methods and problems of simple and multivariable linear regression. Emphasizes applications to economics, finance and business through a capstone research project and use of software.

Prerequisite: ECO 302 or departmental approval. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 431 - Managerial Economics (3)

The application of economic tools and analysis to optimize business decisions given firm's objectives and scarcity constraints, using information, pricing and game theory.

Prerequisite: BBA 168 and BBA 169, or ECO 166 and ECO 167. Cross-Listed as: LEH ECO 431/BBA 431. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 440 - Cost Accounting II (2)

The use of advanced tools in the managerial decision-making process: inventory planning and control, transfer pricing, determinants of profit, capital budgeting, and behavioral implications of accounting and budgeting.

Cross-Listed as: LEH ECO 440/ACC 440. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 448 - Computer-Based Accounting (3)

Advanced study of the implications of information systems for accountants, with emphasis upon accounting applications as well as the body of knowledge required for the accountant who is expected to provide relevant, significant data for an increasingly wide range of purposes.

Cross-Listed as: LEH ECO 448/ACC 348. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 450 - Economics Seminar (3)

Selected readings and research.

Prerequisite: Permission of the Department. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ECO 490 - Honors Project in Economics (3)

Supervised individual research and directed reading in selected areas of economics. An honors essay or some other suitable presentation is required.

Prerequisite: A minimum of 3.2 GPA, permission of the instructor, and ECO 402. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

EDS - Special Education

EDS 390 - Introduction to Special Education (3)

Overview of the field of special education with emphasis on the developmentally disabled individual. Examination of attitudinal factors contributing to present-day treatment of handicapped individuals. Field trips under supervision.

Prerequisite: Completion of 60 credits (6 in psychology), the College Writing Examination, and a cumulative index of 3.0. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ENG - English

ENG 002 - College Writing Exam (0)

College Writing Exam

Requirement Designation: Message Liberal Arts. Offered: Fall-Spring.

ENG 110 - Principles of Effective Writing I (3)

Focus on paragraph and essay development, summary, and critical response to short texts. Emphasis on organization,

language accuracy, grammar, and mechanics. Individual conferences.

Prerequisite: Placement. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 111 - English Composition I (3)

Focus on all aspects of reading and writing, with particular attention to summary, critical responses to short texts, argumentative development in paragraphs and essays, and the rewriting process. Emphasis on organization, language, accuracy, grammar, and mechanics. Classroom instruction supplemented by individual conferences on drafts with instructor, library resources sessions, and appropriate use of available technology.

Requirement Designation: Required Core - English Composition. Offered: Fall-Spring.

ENG 113 - Honors English Composition I (3)

Focus on all aspects of reading and writing, with particular attention to summary, critical responses to short texts, argumentative development in paragraphs and essays, and the rewriting process. Emphasis on organization, language, accuracy, grammar, and mechanics. Classroom instruction supplemented by individual conferences on drafts with instructor, library resources sessions, and appropriate use of available technology.

Requirement Designation: Required Core - English Composition.

ENG 120 - Principles of Effective Writing II (3)

Continues the work of ENG 110, advancing critical reading skills and essay development. Emphasis on the writing of analytical essays and papers based on research in various academic disciplines. Individual conferences.

Prerequisite: Departmental permission required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 121 - English Composition II (3)

Continues the work of ENG 111, advancing critical reading skills and essay development. Emphasis on writing analytical essays and papers based on research in various academic disciplines. Classroom instruction supplemented by individual conferences on drafts with instructor, library resources sessions, and appropriate use of available technology.

Prerequisite: ENG 111 or equivalent or departmental permission. Requirement Designation: Required Core - English Composition. Offered: Fall-Spring.

ENG 123 - Honors English Composition II (3)

Continues the work of ENG 113, advancing critical reading skills and essay development. Emphasis on writing analytical essays and papers based on research in various academic disciplines. Classroom instruction supplemented by

individual conferences on drafts with instructor, library resources sessions, and appropriate use of available technology.

Prerequisite: ENG 113 or equivalent or departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 135 - The Experience of Literature (3)

Ways of understanding and enjoying different kinds of literature, including prose, poetry, and drama. Not recommended for students who have passed ENG 120 and closed to those who have satisfactorily completed a 200-level ENG Literature course.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 222 - Literary Genres (3)

Literary forms and genres and the critical methods appropriate to their study. Analysis of major representative texts and exploration of central themes.

Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

ENG 223 - English Literature (3)

Major works in multiple genres that form the basis of the literary heritage of the English language, medieval to modern.

Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

ENG 226 - Shakespeare Now (3)

Shakespeare's plays, exploring language, genre, structure, and historical contexts. Attention to films, stage recordings, and contemporary novels or graphic novels.

Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

ENG 227 - American Literature (3)

Representative prose, verse, and drama from the colonial period to the present.

Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

ENG 228 - Literature and Medicine (3)

Critical analysis of fiction, poetry, plays, films, and nonfiction about medicine, disease, illness, and/or health. Exploration of central themes and consideration of historical and social contexts.

Requirement Designation: Regular Liberal Arts.

ENG 229 - Contemporary Urban Writers (3)

Fiction, poetry, drama, essays, and other writings by authors examining the personal, cultural, and political dimensions of urban experience past and present.

Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

ENG 233 - Literatures of Immigration (3)

Study of the wide range of authors who write about immigrants and their experiences of arriving and living in a different nation. Genres studied may include the novel, short story, poetry, memoir, photography, and film.

Requirement Designation: Regular Liberal Arts.

ENG 234 - Women in Literature (3)

Images of women and constructions of gender in myths, legends, biblical writings, and major literary texts by both male and female writers.

Cross-Listed as: LEH WST 234/ENG 234. Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

ENG 236 - Afro-Latinx Literatures (3)

Importance, creativity, and meaning of poetry, songs, music, stories, (auto)-biographies, and novels produced by people of African descent living in or from Latin America. Intersection of race, gender, sexuality, nationality, class, and other forms of identity-making with multiple forms of expression particular to the Afro-Latinx community.

Requirement Designation: Regular Liberal Arts.

ENG 237 - Popular Fiction (3)

Survey of genres and forms of popular fiction, including science fiction, romance, mysteries, comics, westerns, and more. Dynamics of production and reception; genre theory; aesthetics; and/or historical and cultural trends and contexts.

Requirement Designation: Regular Liberal Arts.

ENG 260 - Diverse Voices in American Literature (3)

Fictional or non-fictional literature by Americans of any cultural or ethnic background. Analysis of how the texts reflect the race/ethnic, class, gender, and sexuality cultures that the authors draw upon in their writing.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 264 - Special Topics in Literature (3)

(Each course may be taken twice for credit.) Studies in the works of various authors or periods. Topics vary from semester to semester.

Cross-Listed as: LEH ENG 265/ENG 264. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 265 - Special Topics in Literature (3)

(Each course may be taken twice for credit.) Studies in the works of various authors or periods. Topics vary from semester to semester.

Cross-Listed as: LEH ENG 265/ENG 264. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 300 - Unsettling English Studies: Introduction to the Major (4)

English Studies as a form of knowledge and power vis-à-vis race, class, gender, sexuality, ability, literacy, or other axes of authority. Alternative modes of thought and expression that have sought to transform the field. Skills necessary for the Major, including attention to textual language and its contextual relations; inquiry-driven, argument-centered writing; engagement with scholarship or theory. Individualized and/or collaborative projects designed to explore students' relationship to the discipline.

Prerequisite: ENG 121 or ENG 123 (unless exempted). Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 301 - Early Modern English Literature (3)

English poetry, prose, and/or drama from 1500-1660, with an emphasis on writers other than Shakespeare.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 302 - Eighteenth-Century British Literature (3)

British literature from 1660 to 1815, emphasizing major writers in poetry, drama, and prose in Great Britain, Ireland, the Americas, and the Transatlantic world.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 304 - The Structure of Modern English (3)

Grammatical theory and linguistic descriptions of modern English (such as traditional, descriptive, and transformational grammars), with emphasis on the formal properties of grammar and the formal characterization of language. Samples of modern English to be studied will be drawn from literary works from the early modern English period to the present.

Prerequisite: Departmental permission. Cross-Listed as: LEH ENG 304/LNG 318. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 305 - History of the English Language (3)

Historical linguistics and the study of English, including analysis of selected texts from Old English through early modern English to illustrate the development of the English language. Attention will be paid to the phonology and grammar of the English language and to ways language is used for expressive ends in the selected literary examples.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 307 - Topics in the Novel (3)

Intensive study of book-length fictional narratives – from non-Western and BIPoC authors as well as from the European, British, and/or U.S. canons. Attention to the history and politics of the genre: for example, its centrality to capitalism and colonialism as well as to their contestation.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 308 - American Literature (3)

Multi-cultural literature written in the United States and the Americas more broadly, from Native American oral texts to the present.

Prerequisite: ENG 121 or department permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 311 - Chaucer (3)

Reading of Chaucer in Middle English, with emphasis on The Canterbury Tales.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 312 - Shakespeare in Context (3)

Shakespeare's drama in its historical contexts, which might include gender and sexuality; politics and the courts of Elizabeth I and James I; religion and religious change; race, ethnicity, and colonialism.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 314 - Milton (3)

The poetry and selected prose of Milton, with special emphasis on a critical reading of Paradise Lost.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 315 - English Literature to 1800 (3)

Medieval, early modern, and 18th-century poetry, drama, and prose in their historical contexts, including gender and sexuality, court culture, religion, race, ethnicity, and colonialism.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 318 - British Literature from 1800 (3)

Romantic, Victorian, Modernist, and twentieth-century poetry, drama and prose. Works read in their historical and theoretical contexts, including gender and sexuality, political protest and revolution, war, empire, colonialism, race, and ethnicity.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 319 - The Romantic Era (3)

Readings in major Romantic writers from England, Europe, and the Transatlantic world, with attention to social, cultural, and political contexts, and to enduring legacies in literature and other realms.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 321 - Early American Literature (3)

Literary forms and cultural histories shaping early American writing, including oral narratives of Indigenous peoples; literatures of colonial conflict, religious vision, and slavery; new forms of fictional and poetic experimentation. Entanglements between projects of freedom and enslavement, genocide and resurgence, and dissent and social cohesion in the decades leading up to the Civil War.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 322 - Modernism (3)

Readings in major Modernist writers from Britain, the U.S., Ireland, and Europe, with attention to social, cultural, and political contexts, and to enduring legacies in literature and other realms.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 323 - Early Women Writers (3)

Women writers to 1800 from Britain, Europe, the Americas, and/or the Transatlantic and Caribbean worlds, read on their own and in historical, national, and transnational contexts.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 324 - Modern British and Anglophone Literature (3)

Literature written in Britain, its colonies, and the postcolonial world, from the Enlightenment to the present.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 328 - Poetry (3)

Intensive study of poetry.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 330 - Fiction (3)

Intensive study of novels and short fiction.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 334 - Drama (3)

Intensive study of drama.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 335 - Critical Approaches to Children's Literature (3)

Critical examination of selected works written for children and enjoyed by children and adults. Consideration of fantastic and realistic fiction and analysis of appropriate literary forms, such as fairy tale, animal fable, adventure story, and the novel of development.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 336 - Critical Approaches to Adolescent Literature (3)

Critical study of literature of special interest to adolescents. Readings will include fiction, drama, and memoirs that focus on such themes as coming-of-age, knowing good and evil, confronting mortality, leaving home, discovering love and sexuality, and defining one's identity.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 337 - Irish Literature (3)

Poetry and prose by writers closely identified with Ireland. Beginning with Irish texts (read in English translation) such as the medieval Tain and lyrics of the sixteenth, seventeenth, and eighteenth centuries, the reading will emphasize works originally written in English by such authors as Swift, Wilde, Shaw, Yeats, and Joyce.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 338 - Global Literatures (3)

Literature concerning the world outside the US and Britain, focused on colonized or formerly colonized regions in the Americas, Africa, and Asia, from the late twentieth century to the present.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 339 - Latinx Literature (3)

Literary and cultural works by persons of Latin American descent living in the U.S.A., though often identifying by nationality (Mexican, Puerto Rican, Dominican, Colombian, Cuban, Honduran, Guatemala) or region (Borderlands, Southwest, Nuyorican, Caribbean). Particular focus on a pan-ethnic Latinx identity encompassing diverse national groups as opposed to racial, class, historical, political, religious and other distinctions. From the colonial era to the present.

Prerequisite: Departmental permission. Cross-Listed as: LEH ENG 339/LAC 339. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 340 - African American and Black Diasporic Literatures (3)

Literature from the Black diaspora, with special emphasis on the Americas, from the colonial era to the present.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 341 - Asian and Asian-American Literature (3)

Traditions in Asian and Asian-American literature with an eye to underlying historical experiences, cultural values, and modes of literary expression.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 342 - Film Studies (3)

Study of film, with attention to stylistic and narrative strategies, historical and contemporary genres, and theoretical approaches. Emphasis on films with particular literary, cultural, or social resonance or impact.

Prerequisite: Departmental permission. Cross-Listed as: LEH ENG 342/ENG 344. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 343 - Urban Literature (3)

Fiction, poetry, drama, essays, and other writings by authors examining the personal, cultural, and political dimensions of urban experience past and present.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 344 - Women Writers in English (3)

Fiction, poetry, drama, and essays by women writing in English. Focus on particular times, places, and writers may vary by semester.

Prerequisite: Departmental permission Cross-Listed as: LEH AAS 344/WST 344/ENG 344. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 345 - Topics in Gender and Sexuality (3)

Issues related to gender identity, erotic desire, or sexual orientation in literature, film, arts, or the media. Topics such as gender performativity; cultural constructions of masculinity and femininity; homoeroticism; transgender; feminist or queer theory and politics; and how gender and sexuality intersect with race, ethnicity, nationality, or class.

Prerequisite: Departmental permission. Cross-Listed as: LEH WST 345/ENG 345. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 346 - The Bible as Literature (3)

Selections from the King James translation of the Old and New Testaments and the Apocrypha, read with emphasis on historical background, the history of ideas, and literary genres.

The perspectives of the course are those of modern literary and historical criticism in a secular context. Instructors may choose to focus on the Old or the New Testament.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 347 - Western Traditions--Narrative (3)

Western literature in translation, with attention to selected classical, medieval, neoclassic, romantic, and modern narratives and their influence on English and American literature.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 348 - Western Traditions--Drama (3)

Western literature in translation, with attention to selected classical, medieval, neoclassic, romantic, and modern plays and their influence on English and American literature.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 349 - Eastern Traditions (3)

Traditions of literature from Asia, India, and the Middle East, with an eye to underlying historical experiences, cultural values, and modes of literary expression.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 350 - Senior Seminar (3)

(May not be taken before 25 credits of the major have been completed.) Topics vary from semester to semester. Students will present reports to the seminar and will prepare at least one major paper. Focus on a literary topic, which will be explored in a group of interrelated works, usually from several genres and periods.

Prerequisite: ENG 300, ENG 301, ENG 302, ENG 303, ENG 307, ENG 308. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 355 - Special Topics in Literature I (3)

Topics vary from semester to semester and will be announced in advance. Course may be taken twice for credit.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 356 - Special Topics in Literature II (3 Can be repeated to maximum of 6 credits)

Topics vary from semester to semester. Course may be taken twice for credit.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 357 - Topics in Popular Fiction (3 May be repeated for a maximum 6 credits)

Intensive study of a topic in particular genres of popular fiction, including science fiction, romance, mysteries, comics, or westerns, and more. Particular topics vary by semester; course may be taken twice if topic varies.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 358 - Topics in Latinx Literature (3 May be repeated for a maximum 6 credits)

Topics of significance to Latinx peoples and the literatures they have produced. Particular topics vary by semester; course may be taken twice if topic varies.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 359 - Topics in African American and Black Diasporic Literature (3 May be repeated for a maximum 6 credits)

Critical issues pertaining to African Americans and global Black Diasporic communities. Particular topics vary by semester; course may be taken twice if topic varies.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 362 - Topics in Global Literatures (3 May be repeated for a maximum 6 credits)

Specialized themes in postcolonial literature and theory, such as anticolonial struggle and national liberation; critiques of Western thought and culture; contemporary U.S. imperialism in Latin America, the Middle East, Africa, and beyond; borders, migration, and critical refugee studies; and the endless, perhaps impossible, project to decolonize the mind and imagine a truly post-colonial society. Particular topics vary by semester; course may be taken twice if topic varies.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 363 - Epochal Authors (3 May be repeated for a maximum 6 credits)

Intensive study of a major author's life, works, peers, and contexts. Particular topics vary by semester; course may be taken twice if topic varies.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 366 - Indigenous Literature (3)

Indigenous literatures in a variety of genres and media viewed in historical, cultural, and political contexts. Major authors and lesser-known Native writers from inside the territorial boundaries of the US and Canada, across a range of tribal nations and periods.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 367 - Caribbean Diasporic Literatures (3)

Caribbean literatures and cultures of South and North America. Empire; revolution; labor and tourism; decolonization; migration; indigeneity; storytelling and oral traditions; diaspora; exile; and constructions of race, class, gender, and sexuality. Texts in English with attention to the Caribbean's multiple linguistic traditions.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 368 - Arab-American Literature (3)

Anglophone literary writings by authors of Arab descent in the United States from the early twentieth century to today.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 369 - The Black Radical Tradition (3)

Black intellectuals, artists, and revolutionaries who have fundamentally reimagined politics, economy, and society. Attention to the intersection of race, class, gender, and sexuality; connections with Marxism, anticolonialism, Afro-Latinidad, and indigeneity; and critiques of racial capitalism, the prison-industrial complex, and policing.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 371 - Theoretical Approaches to Literature and Culture (3 May be repeated for a maximum 6 credits)

Reading and analysis of particular authors, texts, or traditions in light of one or more theoretical orientations, including but not limited to postcolonial studies, intersectional feminism, Marxist criticism, poststructuralism, critical race studies, gender studies and queer theory, disability studies, or others. Particular topics vary by semester; course may be taken twice if topic varies.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 381 - Individual Tutorial in Literature (3 (maximum 6 credits))

Individual research and reading on a specific topic under close faculty supervision.

Prerequisite: 75 college credits; Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 382 - Fictions of Disability (3)

Representations of disability in literature, memoir, critical and theoretical publications, popular texts. Challenging common negative or idealizing stereotypes; understanding how storytelling shapes ideas about disability; analyzing the

intersection of disability with other tropes of human disqualification, including race, gender, and sexuality.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 383 - LGBTQ+ Literature (3)

Critical analysis of short stories, novels, poetry, drama, memoir, film, graphic, or multimedia narratives by, for, and about LGBTQ (lesbian, gay, bisexual, transgender, and queer) people. Changing social, political, and cultural contexts. Feminist and queer theories of gender and sexuality.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 384 - Literature, Performance, and the Arts (3)

Contemporary aesthetic practices alongside and beyond writing, including music; performance; film and video; painting and visual art; photography; architecture; and digital media. Attention to the avant-garde and subversive, including, for example, Black diasporic and/or queer expressive forms.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 385 - Technology of the Book (3)

Introduction to book studies in the western tradition from 1500 to 1900. Focus on the history of the book, from the hand press period to the machine press period, and on the analysis of books as technology and as media.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 386 - Critical Race Theory (3)

Critical race theory from its foundations in legal studies to current applications in literary and cultural studies. Major African Americanist, Latinx, Indigenous, and Asian Americanist theorists whose interdisciplinary critiques of literature, education, politics, and law bind theory to social justice praxis.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 387 - Classics and Us (3)

Selected major or foundational texts from one or more classical traditions, read on their own and with later revisions, re-imaginings, and rebuttals across time and space.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 388 - Literary Bronx (3)

Literatures written by Bronx-based authors as well as literature about the Bronx from classic authors to significant writers of our own time.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 389 - Introduction to Literary and Cultural Theory (3)

A selective survey of poststructuralist, psychoanalytic, feminist, lesbian/gay, trans, Marxist, and postcolonial theory; new historical, cultural materialist, disability, critical race, and border studies; or other theoretical approaches to literature and culture.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 390 - Nineteenth-Century British Literature (3)

British poetry, prose, and/or drama from the long nineteenth century, 1780 to 1910.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENG 396 - Human Rights Literature (3)

Study of the integral connections between human rights and writing in a wide variety of genres. Origins and evolving definitions of the concept of human rights, the role of art and literature in developing empathy, and the impact of “real” vs. “invented” narratives in support of human rights movements.

Requirement Designation: Regular Liberal Arts.

ENG 460 - Honor Seminar--Spec Topics (3 (maximum 6 credits))

Special topics to be announced.

Prerequisite: English Honors students only; 75 college credits; Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 463 - Seminar in Literature (3)

Focused study of particular writers, times, places, or genealogies for the proficient student of literature and culture.

Prerequisite: 90 credits. Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 481 - Honors Tutorial in Literature (3)

Exclusively for English honors majors working on their senior Honors Project in the fall term prior to graduation. Tutorial involves individual research, reading, and writing on a specific topic while working one-on-one with a faculty mentor.

Prerequisite: 90 college credits; Departmental permission. Corequisite: ENG 482 or ENW 482. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENG 482 - Honors Colloquium (1)

Weekly gathering of seniors doing independent tutorial work with a faculty mentor on their English Honors projects.

Students meet with Colloquium instructor to discuss critical and creative ideas, modes of research, deadlines and progress, editing and revising. Written work submitted regularly for review.

Prerequisite: Departmental permission; English Honors Program students only; 90 college credits. Corequisite: ENG 481 or ENW 481. Cross-Listed as: LEH ENG 482/ENW 482. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENV - Environmental Science

ENV 210 - Introduction to Environmental Science (3)

Overview of environmental systems and issues. Topics include ecosystems, species and biodiversity, soil conservation, water and waste management, and environmental pollution.

Requirement Designation: Flexible Core - Scientific World. Offered: Fall-Spring.

ENV 211 - Introduction to Environmental Science Laboratory (1)

Basic laboratory skills in environmental analysis/science such as water quality analyses and field observations of ecosystems.

Prerequisite: ENV 210. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENV 235 - Conservation of the Environment (3)

The impact of human activities on natural resources and environmental quality. Topics will include soil, forests, water, wildlife, outdoor recreation, and energy resources.

Requirement Designation: Flexible Core - Scientific World. Offered: Fall-Spring.

ENV 255 - Regional Topics and Field Methods in Environmental Sciences (1, 2, 3, or 4 credits (may be repeated for a maximum of 6 credits))

In-depth field study of environmental problems and field methods.

ENV 270 - Environmental Pollution (4)

In-depth study of the science, impacts, and mitigation strategies regarding air, water, and noise pollution. Hands-on experience with pollution monitoring, analysis, and evaluation.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENV 326 - Environmental Policy (3)

Background, development, application, implications, and evaluation of environmental policies in the United States.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ENV 330 - Environmental Impact Assessment (3)

Assessment of possible impacts of actual or proposed projects or activities on the environment.

Prerequisite: ENV 210 or departmental permission.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENV 420 - Natural Resource Management: Senior Seminar (2)

Capstone experience for students majoring in Environmental Sciences. Integration of concepts and use of skills, methodology, and knowledge from relevant undergraduate courses.

Prerequisite: ENV 210, ENV 211, and ENV 330 or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW - English Writing

ENW 201 - Writing Essentials (3)

An advanced course in the techniques of formal exposition that develops the students' understanding of English expository style and of mechanics and grammar. A substantial portion of the course is devoted to researching materials and organizing them in the form of summaries of facts, position papers, and research papers. An effort will be made to relate the subject matter of much of the writing to the students' interests.

Prerequisite: Successful completion of ENG 121 (or equivalent) or departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 204 - Report Writing (3)

Emphasis on compiling and presenting evidence; on logic and correctness in organization and presentation. Reports, analyses, and criticism.

Prerequisite: Departmental permission. Cross-Listed as: LEH ENW 204/ENW 300. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 210 - Introduction to Creative Writing (3)

Reading, writing and analysis of contemporary short fiction, poetry, plays, and nonfiction, focusing on elements pertinent to each form.

Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

ENW 215 - GRE Theory and Practice (3)

The Graduate Record Examination (GRE) in theory and practice.

Prerequisite: Junior or Senior status Cross-Listed as: PHI 215. Requirement Designation: Regular Liberal Arts.

ENW 217 - Editing Essentials (3)

Study of the editing skills needed for professional writing. Emphasis on grammar, punctuation, sentence-structure, proofreading, and editing, plus review of proofreader's marks, techniques, and styles.

Prerequisite: Successful completion of ENG 121 or ENG 123 (or equivalent) or Departmental Permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 300 - Business Writing (3)

Writing to communicate most effectively in the business world. Focus on strategies for information-sharing and persuasion in various formats, including reports, letters, meeting agendas, professional emails, proposals, and informative and persuasive presentations. Open to all majors.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 301 - Workshop in Poetry (3 Can be repeated to maximum of 9 credits)

Intensive study of the practice of writing poetry. Class develops advanced competence in the discipline of writing, peer review, and self-editing through the workshop method of critique.

Prerequisite: ENW 310 and departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 302 - Workshop in Fiction (3 Can be repeated to maximum of 9 credits)

Intensive study of the theory and practice of writing fiction, with related readings and workshop critiques. Class develops advanced competence in the discipline of writing, peer review, and self-editing through the workshop method of critique.

Prerequisite: ENW 310 and departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 303 - Workshop in Creative Nonfiction (3 Can be repeated to maximum of 9 credits)

Intensive study of the theory and practice of writing nonfiction, with related readings and workshop critiques. Class develops advanced competence in the discipline of writing, peer review, and self-editing through the workshop method of critique.

Prerequisite: ENW 310 and departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 304 - Writing for Prestigious Awards and Graduate Schools (3)

Effective communication and writing for students at all academic levels who are applying for scholarships, fellowships, other prestigious awards, or graduate programs. Focus on rhetorical strategies for persuasion in professional communication pieces, essays, documents, interviews, and presentations. Students prepare shorter writings, as well as substantial personal essays that incorporate data analysis and support for their conclusions and recommendations.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 305 - Principles of Professional Writing (3)

Writing and research skills required for professional writers working in public relations, marketing, technical writing, and nonprofit grant-writing, principally in the humanities, but also in business, health, and science. Review of basic grammar, structure and organization of key workplace documents, and research techniques and sources.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 306 - Collaboration and the Writing Process (3)

Intensive writing in a variety of modes paired with training in effective techniques for tutoring others in writing. Course is divided between the classroom and the Writing Center.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 307 - Health and Science Writing (3)

Work-related writing in the social, natural, and health sciences, including nursing. Projects stress writing issues specific to the healthcare and scientific communities.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENW 308 - Workshop in Playwriting (3)

Intensive study of the theory and practice of writing plays, with related readings and workshop critiques. Class develops advanced competence in the discipline of writing, peer review, and self-editing through the workshop method of critique. Repeatable three times for credit.

Prerequisite: ENW 310 and departmental permission. Requirement Designation: Regular Liberal Arts.

ENW 309 - Workshop in Screenwriting (3 Can be repeated to maximum of 9 credits)

Intensive study of the theory and practice of screenwriting for film, television, and other media with related readings and workshop critiques. Class develops advanced competence in the discipline of writing, peer review, and self-editing through the workshop method of critique.

Prerequisite: ENW 310 and departmental permission.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 310 - Principles of Creative Writing (3)

Art and craft of reading, writing and analyzing short fiction, poetry, drama, and creative nonfiction essential to creative writing.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENW 313 - Literary Craft for Professional Writers (3)

Study of English literature to analyze how authors use voice, figures of speech, and literary techniques.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENW 314 - Evidence-Based Writing (3)

Workplace research and quantitative literacy skills, using data, graphs, dates, observations, and opinions in nonfiction writing. How to research and use numbers, examples, explanations, and identifications, and how to evaluate sources and judge the validity and relevance of hard copy and online documents.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENW 315 - Editing for Style and Flow (3)

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENW 316 - Storytelling for Professional Writers (3)

Storytelling techniques to create meaningful stories that persuade, inform, and encourage action. Focus on use of storytelling techniques in organizational blogs, podcasts, newsletters, brochures, and speeches.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENW 318 - Writing for New Media (3)

Work-related writing using new and emerging media. Selecting the proper media for writing projects in various professional fields and adapting written content to capitalize on the opportunities and address the limitations of each media form.

Prerequisite: Departmental permission.

ENW 319 - Publishing Landscape (3)

Analysis of the current state of publishing for books, journalism, literary journals, and self-publishing on social media platforms. Attention to the structure, power dynamics, and diversity of media outlets and trains students to evaluate their legitimacy and their output.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENW 320 - Professional Presentations (3)

Development of a major professional project in a chosen area of specialization, whether business, non-profit organizations, science or healthcare industries, public relations and marketing, or technical writing. Students research, write, and present complex discipline-specific content to various audiences in multiple media.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENW 322 - Design for Writers (3)

Using design to create documents that get attention, align with brand, convey information, generate response. Technical vocabulary to communicate effectively with graphic designers, marketing professionals, and other writers. Creation of meaningful, research-based, well-designed websites, blogs, brochures, flyers, newsletters, presentations, and proposals using standard software.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENW 323 - Biography Writing (3)

Biography as a literary non-fiction genre. Students will investigate the storytelling, research, and writing techniques authors employ as they recount the lives and achievements of central figures as well as the backdrop of contemporary and historical events. At least three biographies.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 324 - The Contemporary Essay (3)

History and craft of the literary essay from its birth in the seventeenth century to its rebirth on editorial pages and blogs today. Composition and expository techniques for writing sound arguments and compelling subjective narratives.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 325 - Arts Criticism: Writing about Popular Culture (3)

Genres of writing that comment on culture and society, including book, music, theatre and art reviews, critical essays, and more. Attention to changes in the publishing industry and social media platforms that affect cultural production and commentary.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 326 - Memoir Writing (3)

Composition of autobiographical texts through readings and a variety of writing exercises. Narrative structure and sequence,

dialogue, point of view, description and post-facto reporting contributions to character-driven nonfiction storytelling.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENW 332 - Feature Writing (3)

Researching and composing biographical profiles, organizational profiles, and trend pieces for genres including blogs, brochures, flyers and pamphlets, public relations text, graduate school and job applications, professional biographies, and others.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENW 333 - Marketing and PR Writing (3)

Mastering the appropriate formats needed to write in marketing and public relations fields. Formats studied include reports, news releases, talking points, and the various advertising and direct-marketing media generated by for-profit and non-profit organizations.

Prerequisite: Departmental permission. Cross-Listed as: LEH MCS 333/ENW 333. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 334 - Grant and Proposal Writing (3)

Conception, research, and composition of grants and other types of professional proposals for public sector, nonprofit, and non-governmental organizations and endeavors. Development of the skills in essay writing, news copy, and feature copy used to produce the components of effective grant proposals.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 335 - Technical Writing (3)

Generating texts that explain complex technological, scientific, economic, and other matters to experts and lay people clearly and with authority. Projects include how-to manuals, guides, FAQs, and reports.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 345 - Writing and Social Issues (3)

Readings, discussion, and multi-genre writing to explore social issues such as migration, public health, community, jobs, demographics, technology, or other topics of student interest. Attention to advocacy, community engagement, empowerment, organizing, and archival resources. Development of research, drafting, and writing skills in a variety of professional genres.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENW 346 - Entrepreneurship for Writers (3)

Overview of current issues and practices in professional writing careers. Topics include copyright & intellectual property consideration; licensing and work-for-hire arrangements; identifying market opportunities; writing book proposals; and pitching editors and literary agents. Emphasis is on personal entrepreneurship.

Requirement Designation: Regular Liberal Arts.

ENW 364 - Topics in Creative Writing (3 Can be repeated to maximum of 9 credits)

Theory and craft of creative writing. Creative Writing students must take at least twice.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 365 - Special Topics in Professional Writing (3 (maximum 6 credits))

Topics vary from semester to semester.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 366 - Special Topics in Writing and Rhetoric (3)

Critical analysis of important scholarly and popular work in writing and rhetoric studies and exploration of relevant and timely issues related to the intersecting fields of literacy studies, digital humanities and digital rhetoric, cultural rhetoric, and critical pedagogy.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENW 381 - Individual Tutorial in Writing (3 (maximum 6 credits))

Opportunity for a student to pursue a specific project in creative or professional writing under close faculty supervision.

Prerequisite: 90 college credits; Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 382 - Research and Revision Tutorial (1)

Individual tutorial focused on the process of substantially revising, researching, and expanding a previously written critical essay. Emphasis on research skills, incorporation of secondary sources, form and structure, and use of evidence to demonstrate an original thesis.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENW 399 - Research, Rhetoric, and Writing Studies (3)

Composing processes, research methodologies, and rhetorical strategies writers use to participate and intercede in local and global communities, cultural, educational, professional and

political spaces. Multiple rhetorical traditions and disciplinary subfields, including cultural rhetorics, community literacies and literacies studies, digital humanities, writing pedagogies, and public writing.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

ENW 461 - Seminar in Creative Writing (3)

Focused genre-writing for the proficient student of fiction, poetry, creative nonfiction, or drama.

Prerequisite: 90 credits and Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 462 - Seminar in Professional Writing (3)

Focused writing in relevant genres for the proficient student of professional writing and communications.

Prerequisite: 90 credits and Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 463 - Seminar in Writing Studies (3)

Focused attention to cultural rhetorics, literacy studies, digital humanities, writing pedagogies, or public writing for the proficient student seeking to expand their writing studies portfolio.

Prerequisite: 90 credits and Department permission. Requirement Designation: Regular Liberal Arts.

ENW 464 - Master Class in Poetry (1 (May be repeated with the professor's permission for a maximum of 3 credits.))

An intensive course in writing, revising, and editing poetry.

Prerequisite: Submission of portfolio and approval of professor. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 481 - Honors Tutorial in Writing (3)

Exclusively for English honors majors working on their senior Honors Project in the fall term prior to graduation. Tutorial involves developing an individual project in creative or professional writing, working one-on-one with a faculty mentor.

Prerequisite: PREREQ: 90 college credits; Departmental permission. Corequisite: ENG 482 or ENW 482. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ENW 482 - Honors Colloquium (1)

Weekly gathering of seniors doing independent tutorial work with a faculty mentor on their English Honors projects. Students meet with Colloquium instructor to discuss critical and creative ideas, modes of research, deadlines and progress,

editing and revising. Written work submitted regularly for review.

Prerequisite: Departmental permission; English Honors Program students only; 90 college credits. Corequisite: ENG 481 or ENW 481. Cross-Listed as: LEH ENG 482/ENW 482. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ESC - M&H School Ed

ESC 135 - Introduction to Secondary Education (3)

An examination of the development of secondary education in the United States: its structure, governance, and finance. Consideration of the unique role of the secondary school and its interrelationships with other societal institutions. Field visits to selected secondary schools.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 170 - Introduction to Education in Nontraditional Settings (3)

Introduction to the field of education through the study of educational settings other than traditional schools. Examination of professional responsibilities of educators working in nontraditional schools. Field experience to develop a deeper understanding of one of the settings (hospitals, alternate schools, prisons, adolescent treatment centers, etc.) will supplement class lectures.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 300 - Human Relations (3)

Study of the attitudes and behavioral patterns that affect human relations in the schools. The emphasis will be on the development of the personal awareness of future teachers with respect to racial, cultural, and social conflicts and interactions in urban centers. Group-dynamics techniques such as sensitivity training and role playing will be used. Minimum of 15 hours' practicum experience in an appropriate setting.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 301 - Psychological Foundations of Middle and High School (3)

Development from childhood through adolescence (cognitive, emotional, social and physical), learning theories, measurement and evaluation, inclusion of special student populations, and use of relevant technology and software. Theories and research findings will be discussed in relation to classroom observations.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 302 - Social Foundations of Education: A Multicultural Perspective (3)

Study of the historical development of education and schools within the context of various communities and families. Emphasis on the school as a sociocultural institution: issues of equity and bias, and the contributions of the major racial and ethnic groups, especially in the multicultural schools of New York City. Presentation of relevant technology and software; special student populations included.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 303 - Sex Roles and Attitudes in Secondary Education (1)

Experimental examination of sex roles and their implications for educational practice in secondary school grades 7-12.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 304 - Theories of Prejudice and Stereotyping: Implications for Educational Settings (3)

Examination of theories and research relating to prejudice and stereotyping: causes, manifestations, effects. Application of research findings to effective behavior in educational settings.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 308 - Current Issues and Problems in Education (3)

Examination of social and philosophical issues which face educators, parents, and the public at large. Practicum experience arranged by the instructor.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 310 - The Spanish-Speaking American in the Urban School Setting (3)

Study of the contemporary Spanish-speaking American in the urban setting. Special emphasis on opportunities to investigate the education of, and environmental influences on, the Puerto Rican.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 311 - Academic Discourse Communities in Middle and High School Education (3)

Study of academic discourse communities, including the arts, natural and social sciences, humanities, and education. Emphasis on reading and writing across academic disciplines; quantitative and qualitative analyses; interpretation of academic content, and applications in educational settings.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 312 - Restorative Practices & Restorative Justice (3)

Knowledge, skills, and abilities needed to incorporate restorative practices (creating safe and healthy communities) and implement restorative justice (constructively addressing conflict, harm and injury) in diverse schools and neighborhoods and in collaboration with community organization and government agencies.

Offered: Fall-Spring.

ESC 315 - American Education: Philosophical and Historical Foundations (3)

Study of the development of educational theories and practices in the United States from their European origins to the present. The contemporary period examined through the writings of educational philosophers and critics.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 333 - Mentoring-Secndr Edu (3)

Mentoring-Secndr Edu

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 400 - Evaluation in Teaching English to Speakers of Other Languages in Secondary and Continuing Education (3)

Study of techniques for use in the classroom to measure achievement in listening, speaking, reading, writing, and knowledge of American culture. Practice in the construction of classroom tests.

Prerequisite: ESC 301. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 403 - Assessment in Secondary, Adult, and Business Education Settings (3)

Educational testing for the secondary school and other educational settings. The construction, administration, interpretation, and evaluation of educational tests.

Prerequisite: ESC 301. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 405 - Teaching of English as a Second Language (Grades 7-12) (3)

Methods and materials of teaching English to secondary-school students whose native language is not English. Attention will be directed to problems of language, cultural orientation, and the various techniques for teaching children of different age levels and lifestyles.

Prerequisite: ESC 301. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 406 - Sex Education, Cultural Values, and Family Life (3)

Development of attitudes, sensitivities, and skills necessary to teach sex education in the school. Instruction will focus on sexual behavior and its relationship to social patterns, child development, and interpersonal behavior.

Prerequisite: ESC 301.

ESC 407 - Bilingualism and Bilingual Education (3)

Investigation of theories and research related to bilingualism and its educational implications. Examination of the principles underlying bilingual education. Study of practice, school organization, curricula, and problems in bilingual education.

Prerequisite: ESC 301. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 409 - Instructional Strategies for Middle and High School (3)

Topics include classroom management principles and techniques, "generic" lesson planning skills, use of relevant technology and software, and individualizing teaching methods for particular student populations, including limited English-proficient students, low-achieving students, minority and inner-city students, and students in special education. This course is a prerequisite to middle and high school subject-area methods courses.

Prerequisite: ESC 301 and ESC 302. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 410 - Teaching Writing in Secondary School (3)

An examination of writing theory and practice for the purpose of developing effective performance in the teaching of composition. Practice in teaching and evaluating writing and in measuring progress. Field experience and instruction in individual writing instruction.

Prerequisite: ESC 301 Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 411 - Teaching Corrective Reading in Secondary School (3)

Methods and theory of corrective reading instruction in secondary school classrooms, laboratories, and resource rooms.

Prerequisite: ESC 301. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 412 - Teaching Reading: The Use of Adolescents' Literature (3)

An examination of adolescents' literature and methods of teaching reading through the use of such literature.

Prerequisite: ESC 301. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 413 - Teaching Developmental Reading in Secondary School (3)

Methods and theory of developmental reading instruction in secondary school classrooms.

Prerequisite: ESC 301. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 414 - Special Methods in Art (3)

Students enrolled in this course are required to demonstrate proficiency in computer graphics or take a course in computer imaging. Computer graphics programs can be effective design tools, enabling learners to change and enhance images through a variety of techniques, such as drawing, cutting/pasting, duplicating, shrinking, distorting, magnifying, and collaging. The goal is for students to use technology as a medium for art expression in the school art curriculum. The course also introduces students to the computer as a research tool, enabling them to explore the possibilities offered in computer programs, such as exploration and assessment of Internet sites for art and art education information and research, as well as networking, discussion, and critique through Web boards and e-mail.

Prerequisite: Departmental permission required. Corequisite: ESC 476. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 419 - Teaching Science in Middle and High School (3)

Research and practice in the teaching of science at the middle and high school levels. Attention to inquiry-driven methods consistent with current standards in science education, uses of technology and relevant software, teaching strategies, assessment, inclusion of special student populations, and literacy development in science.

Corequisite: ESC 476. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 420 - Accounting and Business Subjects (4)

Aims, problems, and methods of teaching a subject at the secondary level.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 422 - Teaching English in Middle and High School (3)

Introduction to methods and materials for teaching English at the middle and high school levels. Developing communicative competence, academic literacy through the four skills, and crosscultural awareness in a language other than English. Curriculum development; use of relevant technology; current standards; lesson planning; instructional strategies; inclusion of special populations; and assessment.

Corequisite: ESC 476. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 424 - Teaching Foreign Languages in Middle and High School (3)

Methods and materials for teaching foreign languages at middle and high school levels. Developing communicative competence, academic literacy through the four skills, and crosscultural awareness in a language other than English. Curriculum development; use of relevant technology; current standards; lesson planning; instructional strategies; inclusion of special populations; and assessment.

Corequisite: ESC 476. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 429 - Language and Literacies Acquisition in Secondary Education (3)

The teaching and acquisition of language and literacies through secondary content areas, including media literacy, with students of diverse language backgrounds and abilities. Curriculum development; current standards; inclusion of students with disabilities; and assessment.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 431 - Family and Consumer Studies (3)

Aims, problems, and methods of teaching a subject at the secondary level.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 432 - Teaching Mathematics in Middle and High School (3)

Introduction to methods and materials for teaching mathematics in middle and high school, overview of curriculum, current standards, lesson planning; instructional strategies, uses of technology, problem solving; assessment, inclusion of special student populations, and literacy development in mathematics.

Corequisite: ESC 476. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 433 - Teaching World History to Middle and High School Students (3)

Methods of teaching world history to urban middle and high school students. Critical examination of the roles of both content and teachers in an urban classroom.

Corequisite: ESC 476. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 434 - Teaching U.S. History and Government in Middle and High School (4)

Introduction to current theory on curriculum, alternate views on scope and sequence, lesson planning, and national and New York State standards. Uses of technology and reviews of relevant software, alternative teaching strategies, different

types of assessment, inclusion of special student populations, and literacy development in social studies.

Prerequisite: Department Permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 435 - Speech (3)

Aims, problems, and methods of teaching a subject at the secondary level.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 436 - Clerical Subjects (3)

Aims, problems, and methods of teaching a subject at the secondary level.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 437 - Teaching Health in Middle and High School (4)

Methods and materials for teaching health at the middle and high school levels. Curriculum development; use of relevant technology; developing multicultural literacy through language arts in the health curriculum; current standards; instructional strategies; inclusion of special populations; and assessment.

Prerequisite: Department permission required. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 440 - Puerto Rican Studies (3)

Aims, problems, and methods of teaching a subject at the secondary level.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 442 - Teaching Environmental Science (3)

Studies of selected materials, methods, and techniques of environmental education appropriate for teachers of middle school, high school, and adult education courses.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 443 - The Systematic Design of Instruction for Business and Industry (3)

The systematic method of designing training courses and programs in business and industry.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 444 - Delivering Instruction in Business and Industry (3)

Principles and practices of delivering instruction to adult learner populations in corporate settings. Emphasis on using presentation techniques. Students plan and deliver instruction.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 445 - Recreation Studies (3)

Aims, problems, and methods of teaching a subject at the secondary level.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 448 - Teaching Problem Solving in Mathematics in Middle and High School (3)

3 hours, lecture; 25 hours, fieldwork in middle or high school, 3 credits. Introduction and application of heuristic techniques to facilitate mathematical problem solving in Grades 7-12; use of technology as a problem solving tool; assessment. Problems will be analyzed on both teacher and pupil levels.

Offered: Fall-Spring.

ESC 462 - Teaching Language Arts in Languages Other than English (4)

4 hours, 4 credits; 25 hours fieldwork required. Methods, materials, and assessment for developing literacy through language arts in a language other than English at the middle and high school levels. Curriculum development; use of relevant technology and software; current standards; instructional strategies; inclusion of special populations; assessment. Fieldwork under supervision.

Prerequisite: A cumulative index of 3.0 or better in ESC 301, ESC 302, and ESC 463; enrollment in the certification sequence; completion of at least 50 percent of the credits in a foreign language major. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 463 - Special Needs Education: The Identification Instruction & Assessment Special Needs Population Middle & HS (3)

Laws and regulations pertaining to the education of special needs children; information on categories of disability, including autism; indentifying and remediating specific learning disabilities; special education process; classroom management and positive behavioral supports and interventions; individualized and differentiated instruction; effective co-teaching and collaboration. Fieldwork required.

Prerequisite: ESC 301, ESC 302. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 467 - Community Resources for Science Teaching and Learning (3)

Demonstration of academic and practical connections between learning and teaching. Application to learning opportunities that are not bound by places such as home, school, parks and museums. Note: Students will complete assignments at informal science institutions and learning spaces outside of the classroom.

Offered: Fall-Spring.

ESC 470 - Student Teaching in the Middle and High School Grades (3)

One semester of full-time supervised student teaching, minimum two experiences totaling 14 weeks (or other approved experiences). Student teaching in the middle and high school grades, plus conferences.

Prerequisite: Departmental permission; Completion of appropriate Content Area Teaching Methods course(s), with a B or better; maintenance of overall GPA of at least 3.0; submission of scores on the EAS Teacher Certification Examination to the Division Office; and approval from the Professional Development Network Coordinator. Requirement Designation: Regular Non-Liberal Arts.

ESC 471 - Student Teaching Seminar (3)

Current issues and challenges of student teaching in middle and high schools. Weekly seminar and assigned in-school activities required. Required state certification student teaching assessments supported through the course.

Prerequisite: PREREQ: Departmental permission. Requirement Designation: Regular Non-Liberal Arts.

ESC 472 - Mid&High Sch Intrnsp (3)

MidHigh Sch Intrnsp

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 475 - Community Change Model: Creating New Communities (3)

Examination, design and implementation of the Community Change Model as a means to engage youth and adults in analyzing and addressing community problems and concern. Community surveys, interviews and focus groups will be conducted.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 476 - Field Work 1 (1)

Field Work 1

Prerequisite: Departmental permission. Requirement Designation: Regular Non-Liberal Arts.

ESC 477 - Field Work 2 (1)

Integration of student's work experience with theoretical orientation. Emphasis on the relationship between models of teaching and learning in secondary school or continuing education settings.

Prerequisite: ESC 301. Requirement Designation: Regular Non-Liberal Arts.

ESC 485 - Independent Study in Middle and High School Education (1-3 (May be repeated once))

Individual project in developing instructional materials adapted to specific groups.

Prerequisite: Department permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESC 4900 - Linguistics for TESOL/Bilingual Teachers (3)

Study of Language, including phonetics/phonology, morphology, syntax, semantics, pragmatics, and sociolinguistics, applied to the teaching of language and content to linguistically and culturally diverse students. Includes 5 hrs. field experience.

Prerequisite: Permission of the TESOL coordinator. Offered: Fall-Spring.

ESL - English as a Second Language

No beginning-level ESL courses are offered by the College ESL Program at Lehman. The first course in the following sequence is taught at the high-intermediate level.

ESL 103 - English as a Second Language, Intermediate (2)

Introduction to college-level academic English. Grammar topics include a review of the English tense and modal system, clause patterns, hypothetical and conditional statements, and common troublespots. Expository and academic discourse patterns covered include summary and analysis, comparison, cause and effect, the argument, short answer response, and the research paper.

Prerequisite: Department Consent Required Requirement Designation: Developmental Liberal Arts. Offered: Fall-Spring.

ESL 104 - English as a Second Language, Advanced (2)

Focuses on syntactic and discourse structures at an advanced level. Grammar topics include consistency in tense usage, time frame shifts in discourse, difficult lexical and clause patterns, and advanced grammar troublespots, particularly those used for focus, emphasis, or stylistic purposes in academic texts. Other topics include editing and revising written work, reading analytically and critically, and citing an author's ideas informally or formally.

Prerequisite: Department Consent Required Requirement Designation: Developmental Liberal Arts. Offered: Fall-Spring.

ESS - Special Topics

ESS 314 - Fundamentals of Classroom Group Dynamics (2)

History, theory, and development of group dynamics in the classroom. In addition to reading, discussions, reports, and

films, students will experience and examine the group dynamics in a lab setting.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESS 350 - Curriculum and Methods in Special Education (3)

Introduction to the selection, use, evaluation, and development of curricula for special education. Discussion of basic concepts underlying the development of curriculum based on the learning characteristics of exceptional children, with emphasis on individualization in mainstream settings.

Prerequisite: ESS 401, ESS 402, and ESS 403. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESS 376 - Fieldwork in Special Education Services I (2)

(two-semester sequence). Integration of students' work experience with theoretical orientation. Emphasis on the relationship between models of teaching and learning.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESS 377 - Fieldwork in Special Education Services II (2)

(two-semester sequence). Integration of students' work experience with theoretical orientation. Emphasis on the relationship between models of teaching and learning.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESS 401 - Learning Disorders: A Developmental View (1)

Concepts of developing an underlying commonality of basic processing in exceptional children.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESS 402 - Diagnosis of Learning Disorders (1)

Theoretical bases and techniques fundamental to the developmental evaluation of learning-handicapped children. Emphasis on diagnosis for purposes of remediation.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESS 403 - Behavioral Approaches to Children's Emotional Problems (1)

Systematic application of principles of learning to effect behavioral changes in the special child.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESS 424 - Principles and Practices of Educational Guidance (2)

History and development of educational guidance in the public schools; the psychological economics, and social

factors underlying educational guidance. Discussion and evaluation of materials and techniques used.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESS 425 - Principles and Practices of Vocational Guidance in the Elementary and Secondary Schools (2)

Orientation to the vocational-guidance movement in the schools. Procedures, materials, and processes in guidance, counseling, placement, follow-up, and readjustment.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESS 429 - Education and Mass Media (2)

Selections from the mass media and their influence on school programs. Interdisciplinary approaches to the use of the mass media in the school.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESS 433 - Workshop in Instructional Materials and Equipment (1)

A workshop to introduce students to the use and operation of the newer A-V equipment and materials. Students will participate in the operation of the equipment, the production of related materials, and the use of existing resources.

Prerequisite: ECE 402, ECE 403, or ECE 404. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESS 474 - Supervised Student Teaching in Speech and Hearing (3)

Supervised student teaching in speech and hearing in selected elementary and junior high schools in New York City.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESS 485 - Independent Study in Special Education Services I (2)

Independent research and reading on a specific topic area of interest under the supervision of a faculty member in the Dept. of Specialized Services in Education. (One- or two-semester sequence.)

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESS 486 - Independent Study in Special Education Services II (2)

Independent research and reading on a specific topic area of interest under the supervision of a faculty member in the Dept. of Specialized Services in Education. (One- or two-semester sequence.)

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

ESS 490 - Honors Course in Research in Special Educational Services (3 (maximum 6 credits))

Opportunity for individual research in education for a limited number of students.

Prerequisite: Satisfactory completion of 12 credits in ESS or related fields, including ECE 301 or ESC 301. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

EXS - Exercise Science

EXS 260 - Fitness and Exercise for Life (2)

Study of health and skill related fitness; role of exercise and fitness as an integral component of a healthy lifestyle.

Requirement Designation: Regular Non-Liberal Arts.

EXS 264 - Introduction to Exercise Science (3)

Orientation to the field of Exercise Science, professional roles, nature, scope and significance of physical activity and exercise. Basic concepts of fitness and assessment as applied to individuals and unique groups.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

EXS 265 - Behavioral Aspects of Physical Activity (3)

Conceptual and theoretical frameworks for understanding the behavioral component of physical activity and exercise, and for developing intervention strategies for enhancing physical activity and exercise behavior.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

EXS 304 - Coaching Youth and Team Sports (3)

Methods, strategies and responsibilities of coaching youth and team sports in a variety of organizations; includes supervisory and administrative functions of coaches.

Prerequisite: Departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

EXS 315 - Kinesiology and Biomechanics (3)

Study and application of anatomic and mechanical principles of human movement.

Prerequisite: BIO 181 and BIO 182, and EXS 264. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

EXS 316 - Motor Learning (3)

Effects of psychological, social maturational, and neurophysiological factors on the learning and performance of movement patterns.

Prerequisite: BIO 181 and BIO 182 and EXS 264. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

EXS 323 - Exercise Physiology (3)

Human anatomy and physiology as related to physical activity, exercise, and work. Study of the musculoskeletal, cardiovascular, and pulmonary systems; bioenergetics; and body composition, anatomy and physiology of aging, and health-related benefits.

Prerequisite: BIO 181 and BIO 182 and EXS 264. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

EXS 326 - Exercise Testing and Prescription (3)

Principles of fitness and the development of exercise programs to enhance health and/or human performance in a variety of settings. Methods of evaluating physiological adaptation to exercise using laboratory and field experiences.

Prerequisite: EXS 323. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

EXS 342 - Sports Nutrition (3)

Nutritional and metabolic requirements of physical activity. The health and well-being benefits of an optimal diet-exercise regime for physical activity, exercise and sport participation will be emphasized.

Prerequisite: HSD 240 AND EXS 323. Cross-Listed as: LEH DFN 342/EXS 342. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

EXS 423 - Exercise Physiology II (3)

Human anatomy and physiology as related to physical activity, exercise, and work. Study of the nervous, endocrine, muscular, and cardiovascular systems. Factors that affect physiological function, energy transfer, and exercise performance.

Prerequisite: EXS 323. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

EXS 424 - Principles and Practices of Fitness and Wellness Programming (3)

Planning fitness and wellness programs for a variety of settings, with emphasis on selecting appropriate modalities, needs of specific groups, and safety considerations.

Prerequisite: EXS 264. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

EXS 425 - Theory and Methods of Strength and Conditioning (3)

Strength production from a physiological, neurological, biomechanical, and bioenergetic perspective.

Prerequisite: EXS 323 and EXS 315. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

EXS 426 - Exercise Testing and Prescription for Special Populations (3)

Prescribing and modifying exercise programs for individual and groups based on age, medical conditions, and special needs, including coronary heart disease, diabetes, asthma, obesity, arthritis, pregnancy, and physical and mental challenges.

Prerequisite: EXS 323. Requirement Designation: Regular Non-Liberal Arts.

EXS 427 - Application of Training Principles (3)

Applications of strength and conditioning theories and training principles including fitness testing, protocol design and goal assessment, to clients in diverse exercise and fitness settings.

Prerequisite: EXS 326. Requirement Designation: Regular Non-Liberal Arts.

EXS 430 - Research Methods and Statistics in Exercise Science (3)

Concepts of research and evaluation in exercise science. Techniques of measurement and methods of analyzing and interpreting data.

Prerequisite: EXS 323. Requirement Designation: Regular Liberal Arts.

EXS 470 - Internship in Exercise Science I (3)

Supervised placement in a commercial fitness setting in order to develop knowledge of professional practice through on-site experience, with emphasis on leadership and programming.

Prerequisite: EXS 326 and permission of advisor.
Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

EXS 471 - Internship in Exercise Science II (3)

Supervised placement in a clinical or corporate fitness setting in order to develop knowledge of professional practice through on-site experience, with emphasis on leadership and programming.

Prerequisite: EXS 470 and permission of advisor.
Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

EXS 485 - Honors in Exercise Science (3 (maximum 6 credits))

Individual study, under faculty guidance, leading to completion of an honors essay or research manuscript.

Prerequisite: Completion of 18 credits in Exercise Science with a 3.2 GPA and permission of advisor. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

EXS 493 - Special Project in Exercise Science (2-3 (maximum 6 credits))

Individual study, under faculty guidance, leading to a project of practical application in the field.

Prerequisite: Completion of 18 credits in Exercise Science and permission of advisor. Offered: Fall-Spring.

FCS - Family and Consumer Studies**FCS 102 - Clothing I (3)****FCS 120 - Historic Costume (2)**

Study of the development of men's, women's, and children's clothing and textiles from the Egyptian period to the mid-20th century.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 121 - Clothing in Twentieth-Century Society (2)

Patterns of the consumer's clothing behavior and factors influencing clothing choices and needs of the present society and of individuals in that society.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 124 - Family Clothing (3)

Clothing selection, with emphasis on needs of low-income families as a whole and of individual family members, including special problems of handicapped and aged members of the community. Lab. Experiences in alteration and mending of clothing.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 125 - Textiles I (2)

Composition and characteristics of fabric, including both man-made and natural fibers, appearance, labeling, production methods, suitability for specific uses, and care of fabrics.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 126 - Interior Decoration and Design (2)

Choice, arrangement, and care of furnishings in relation to establishing and maintaining an attractive, functional home. Emphasis on aesthetic, psychological, and economic aspects of home decoration in meeting individual and family needs.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 161 - Orientation to Family and Consumer Studies (2)

Orientation to the purposes and scope of the profession. Introduction to field observation and community-study techniques.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 180 - Modern Housing (3)

Analysis of modern housing needs of families. Consideration of home ownership, cooperatives, condominiums, and public and other rental housing in terms of cost, location, construction, and value to individual family members. Principles of organization of space for individual and family living during the family life cycle.

Cross-Listed as: LEH FCS 180/WST 180. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 202 - Clothing II (3)

See department for description.

Prerequisite: Either FCS 102 or Departmental permission.

FCS 219 - Consumer Problems in Housing (3)

See department for description.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 227 - Textiles II (3)

Comparative analysis of different qualities of fabrics. Detailed study of production, legislation, standardization, labeling, and advertising related to textiles, textile products, and clothing accessories. Field trips to observe both manufacturing and wholesale and retail handling of textiles.

Prerequisite: FCS 125. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 228 - Textile Design (2)

Creative use of textile printing and dyeing methods as applied to fabrics, with use of both natural and man-made fibers.

Prerequisite: Either 4 credits in ART or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 229 - Weaving I (2)

Creative use of textile printing and dyeing methods as applied to fabrics, with use of both natural and man-made fibers.

Prerequisite: Either 4 credits in ART or instructor's permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 271 - Child Development (3)

Comparative analysis of different qualities of fabrics. Detailed study of production, legislation, standardization,

labeling, and advertising related to textiles, textile products, and clothing accessories. Field trips to observe both manufacturing and wholesale and retail handling of textiles.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 301 - Demonstration Materials and Techniques (2)

Selection, preparation, and presentation of instructional materials related to special problems in family life sciences. Emphasis on methods and techniques of communicating with families on different economic levels and of various cultural background.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 302 - Special Problems in Clothing Design (2)

Evaluation and adaptation of designs to meet the needs of special groups such as the elderly and the handicapped. Emphasis on the application of special techniques on flat pattern, drapery design, and construction.

Prerequisite: Either FCS 202 or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 307 - Family Relationships (3)

The place of the family in American life: essential conditions for effective family living, factors that seem to be important in achieving and maintaining successful marriage, roles of family members, problems in family relationships and parenthood, and interdependence of family and community.

Cross-Listed as: LEH FCS 307/WST 317. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 314 - Household Equipment (3)

Comparative study of household equipment. Principles of selection and utilization related to family resources and needs. The study of cost, care, safety, maintenance, durability, and use of equipment. Principles of operation and national safety standards for equipment such as lighting, heating, and both major and small appliances.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 315 - Home and Cooperative Ownership and Tenancy (3)

Role of the housing professional in dealing with the following: Problems of the low- and middle-income family as first-time home owners, tenants, or cooperators and family problems related to moving from ghetto or blighted areas into new inner-city and suburban areas. Emphasis will be on family, financial, and maintenance problems related to housing.

Prerequisite: FCS 180 or FCS 219 or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 316 - Home Management (3)

Analysis and evaluation of the home-management process. Application of the decision-making process to the use of time, energy, and money as they relate to the goals and functions of the family in the home and community. Problems of the disadvantaged, handicapped, and aged.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 317 - Consumption Behavior (3)

Study of the consumption behavior of individuals and families, with special reference to cultural and class patterns, the uses of money in interpersonal relationships, and the dynamics of money management and its effects on family life.

Prerequisite: Either FCS 307 or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 318 - Management of Housing for the Elderly (3)

Survey of housing for the elderly, cultural and ethnic variations, and special problems inherent in the multigenerational family and their solutions.

Prerequisite: FCS 180 and Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 370 - Field Study in Clothing and Textiles (2)

Field experiences in the clothing and textiles industry, in and around New York City.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 372 - Family Relationships: Field Study and Seminar (2)

Field study of private and public agencies; introduction to the services available to families, including problems inherent in the use of these services.

Cross-Listed as: LEH FCS 372/WST 372. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 374 - Consumer Advocacy (3)

The role of the family life specialist in the evaluation of consumer needs and information. The rise of the consumer movement in the United States. Legislative history and impact of governmental agencies designed to aid the consumer. Role of federal, state, and local governments and of consumer cooperatives and advocates.

Prerequisite: Satisfactory completion of 45 college credits. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 403 - Introduction to Counseling for Family Living (3)

Role of the home economist in counseling for family living. Introduction to counseling of families and individuals in areas related to budget and finance, housing, nutrition, family agencies, and resources; laws relating to family.

Prerequisite: Adviser's written permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 449 - Housing Management and Maintenance (3)

See department for description.

Prerequisite: Either FCS 180 and FCS 219 or Departmental permission.

FCS 452 - Current Problems in Family and Consumer Studies (2)

Topics will be announced in advance of each semester.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 453 - Trends in Family and Consumer Studies (3)

Topics will be announced in advance of each semester.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 472 - Field Study in Housing Management (2)

Assignments to approved housing developments for on-site experience in management operations.

Prerequisite: FCS 449. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 473 - Problems in Home Management (3)

Field and lab experiences to study family management. Service in private and public agencies to identify problems and initiate programs for families--with emphasis on low-income groups, handicapped homemakers, working mothers, and the aged. Individual and group projects designed to assist families in the areas of nutrition, money management, consumer education and the effective use of family resources.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 485 - Housing Management and Maintenance (3)

See department for description.

Prerequisite: PREREQ: Either FCS 180 and 219 or Departmental permission.

FCS 489 - Seminar in Housing Management (2)

Analysis of current problems and research in the field of housing management.

Prerequisite: FCS 180, FCS 219, FCS 315, FCS 318, and FCS 449, and Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FCS 492 - Honors in Family and Consumer Studies (One semester, 2-3 credits (maximum 4-6 credits).)

See department for description.

Prerequisite: Departmental permission.

FCS 493 - Special Projects in Family and Consumer Studies (3)

See department for description.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE - French

FRE 101 - Elementary French I (4)

For beginners. Elements of grammar, reading of simple modern texts, and practice in speaking. Audiolingual work in the Language Laboratory.

Prerequisite: Departmental permission required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 102 - Elementary French II (5)

Continuation of FRE 101. Completion of this course will provide students with all the basic linguistic elements needed for proficiency.

Prerequisite: FRE 101. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 105 - Elementary French I (3)

(Evening or Saturday only.) Study of pronunciation and the elements of French grammar, reading of simple modern texts, and oral practice.

Prerequisite: Departmental permission required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 106 - Elementary French II (3)

(Evening or Saturday only.) Study of pronunciation and the elements of French grammar, reading of simple modern texts, and oral practice.

Prerequisite: FRE 105. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 107 - Elementary French: Intensive Course (6)

(Summer session only.) Study of pronunciation and the elements of French grammar, reading of simple modern texts, and oral practice.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 108 - Elementary French III (3)

(Evening or Saturday only.) Study of pronunciation and the elements of French grammar, reading of simple modern texts, and oral practice.

Prerequisite: FRE 106. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 111 - Elementary French I (3)

(For students with limited or no prior knowledge of French, as determined by Department placement procedures.) Elements of communication, grammar and culture. Reading of simple texts, and practice in speaking. Oral practice in the Language Laboratory. Course taught in French.

Prerequisite: Department permission required. Requirement Designation: College Option. Offered: Fall-Spring.

FRE 112 - Elementary French II (3)

Elements of communication, grammar and culture. Development of oral and written expression and comprehension. Oral/aural practice in the Language Laboratory. Course taught in French.

Prerequisite: FRE 111 or Department placement exam. Requirement Designation: College Option. Offered: Fall-Spring.

FRE 201 - Intermediate French Grammar (3)

Grammar review, extensive reading, composition, and oral practice.

Prerequisite: FRE 102 or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 202 - Intermediate French Reading and Composition (3)

Grammar review, reading, composition, and practical conversation.

Prerequisite: FRE 201, or FRE 102 with a grade of B+, or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 205 - French for Reading Knowledge (3)

Extensive reading of varied French to enable students to read and comprehend works of average difficulty: newspapers, journals, correspondence, and selections from contemporary literature.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 206 - Business French (3)

Reading and writing practice for up-to-date business communication in banking, international law, trade, etc.

Prerequisite: FRE 201 (or equivalent). Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 207 - Intermediate French Conversation (3)

Emphasis is on oral fluency. Intended to provide students with the means to converse easily in French.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 232 - The Francophone World (In Translation) (3)

Selected works from the (non-European) French speaking world in English translation. Religions, colonization, independence, the negritude movement, bilingualism, and other topics pertinent to la Francophonie.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 233 - French Literature in Translation (3)

Introduction to some of the most significant works of French literature in English translation. Authors and works chosen within a specific historical perspective for their importance and impact within Western culture and/or their literary innovation.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 234 - Introduction to French Cinema (3)

A study of major French film makers; their themes, styles, and aesthetic commitments through the showing and discussion of selected outstanding films (with English subtitles). Complementary reading of selected works of French literature (in English translation) that have significantly influenced the aesthetics and evolution of French films.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 245 - Modern France (3)

Discussion of the forces and events that have been characteristic of the lifestyles, popular culture, and ideals of France since World War II. Newspapers, films, and other contemporary sources will serve as the documentation for this course.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 250 - Special Topics and Themes on French Literature in Translation (3)

Examination of the significance and development of a theme or topic in French literature.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 251 - French Authors in English Translation (3)

Study of the life and works of a French author.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 265 - Intermediate Studies in Literature (3)

Readings in contemporary French literature.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 281 - Tutorial (3)

Language work as directed by a faculty member to meet the student's specific needs (aspects of French grammar, social work, health professions, etc.)

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 285 - Individualized Intermediate Foreign Language Study (1)

Independent study in French generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 300 - Introduction to French Literature and Literary Criticism (3)

Selected readings in prose, poetry, and theatre from different periods. Methods and vocabulary of literary research and criticism. Practice in writing critical papers.

Prerequisite: FRE 202. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 301 - French Literature from the Middle Ages through the Seventeenth Century (3)

Selected masterpieces of French literature from the Medieval, Renaissance, and Classical periods, studied within an historical perspective.

Prerequisite: FRE 202. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 302 - French Literature from the Eighteenth Century to the Present (3)

Selected masterpieces of French literature from the eighteenth century to the present day, studied within an historical perspective.

Prerequisite: FRE 202 or Departmental permission.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 303 - Advanced French Grammar (3)

Advanced principles of grammar and techniques of composition.

Prerequisite: FRE 202. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 305 - Advanced French Conversation (3)

Intensive practice in conversation and listening comprehension through nonliterary topics of current interest.

Frequent oral reports to be discussed in class by other students.

Prerequisite: FRE 303. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 306 - Advanced Composition (3)

Intensive practice designed to improve and develop the ability to write clear and accurate expository prose in French.

Prerequisite: FRE 303. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 307 - Advanced Translation (3)

Translation of contemporary standard English into French (and vice versa). Emphasis on problems and techniques of translation.

Prerequisite: FRE 303 or Departmental Placement.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 308 - Theory and Practice of French Phonetics (3)

Descriptive study of the French sound system. Practice in phonetic perception, transcription, and articulation will include individual recordings and listening exercises.

Prerequisite: FRE 202 or Departmental permission.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 310 - Comparative Grammar (3)

Comparative analysis of English and French morphology, basic phonology, and syntax.

Prerequisite: FRE 201 or Departmental permission.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 3180 - French Dialectology and Sociolinguistics (3)

Major theoretical and practical foundations of sociolinguistic variation (dialectal, social, dialect/language contact) in primarily French-speaking communities and principal methods of sociolinguistic research and discourse analysis. Implications for teaching French.

Prerequisite: FRE 202.

FRE 319 - Francophone Cultures (3)

The interdisciplinary study of a variety of practices and products (film, popular festivals, literary texts, music, art) of the Francophone World.

Prerequisite: FRE 202.

FRE 320 - Francophone Literature (3)

Study of selected literature in French from Africa, North America, the Caribbean, etc. Themes and topics such as colonization and independence, la negritude, la francophonie.

Prerequisite: All 300-level FRE courses numbered 320 and above carry the following PREREQ: FRE 300. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 321 - French Literature of the Middle Ages (3)

Readings may include La Chanson de Roland, Le Roman de la Rose, Villon, and Marie de France.

Prerequisite: All 300-level FRE courses numbered 320 and above carry the following PREREQ: FRE 300. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 322 - Renaissance and Pre-Classical French Literature (3)

Readings of sixteenth-century authors, such as Montaigne, Rabelais, and the Pleiade poets.

Prerequisite: All 300-level FRE courses numbered 320 and above carry the following PREREQ: FRE 300. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 323 - Seventeenth-Century French Literature I: Theatre (3)

Study of the classical French comedy and tragedy; readings in dramatists such as Corneille, Racine, and Moliere.

Prerequisite: All 300-level FRE courses numbered 320 and above carry the following PREREQ: FRE 300. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 324 - Seventeenth-Century French Literature II: Fiction, Essays, and Poetry (3)

Readings of authors such as Descartes, Pascal, La Rochefoucauld, Mme de Sevigne, La Fontaine, and Mme de Lafayette.

Prerequisite: All 300-level FRE courses numbered 320 and above carry the following PREREQ: FRE 300. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 325 - Eighteenth-Century French Literature: The Age of the Enlightenment (3)

Readings of authors such as Montesquieu, Voltaire, Diderot, Rousseau, Laclos, and Beau-marchais.

Prerequisite: All 300-level FRE courses numbered 320 and above carry the following PREREQ: FRE 300. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 327 - Nineteenth-Century French Literature I: Romanticism and Realism-The Novel (3)

Readings of authors such as Chateaubriand, Balzac, Gautier, Stendhal, Nerval, Flaubert, and Zola.

Prerequisite: All 300-level FRE courses numbered 320 and above carry the following PREREQ: FRE 300. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 328 - Nineteenth-Century French Literature II: Romanticism and Realism-Poetry and Drama (3)

Readings of authors such as La-martine, Hugo, Musset, Baudelaire, Rimbaud, and Verlaine.

Prerequisite: All 300-level FRE courses numbered 320 and above carry the following PREREQ: FRE 300. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 332 - Quebec: Literature and Culture (3)

Historical and contemporary creation of prose, poetry and performance in French from Québec in the context of Francophone North America.

Prerequisite: FRE 300 or Departmental Permission. Requirement Designation: Regular Liberal Arts.

FRE 333 - Haiti: Literature and Culture (3)

An overview of Haiti's poets, novelists, short story writers, playwrights, and performance artists. Transmission and interpretations of Vodou traditions, of the Haitian Revolution and other historical events, heroes and everyday Haitians in written and oral forms of literature, including video and music.

Prerequisite: FRE 300 or Departmental Permission. Requirement Designation: Regular Liberal Arts.

FRE 334 - Francophone Caribbean: Literature and Cultures (3)

The French West Indies: Guadeloupe, Martinique, and French Guiana. Colonial history and heroes, myths and religious traditions. Theatre and poetry, oral traditions; essays and creative works by writers from the French Antilles and their diaspora.

Prerequisite: FRE 300 or Departmental Permission. Requirement Designation: Regular Liberal Arts.

FRE 335 - Maghreb and Mashreq: Literature and Cultures (3)

Literature in French from the Maghreb and the Mashreq and from their diaspora. Colonial and contemporary history; religious, sexual, linguistic minorities; oral and written poetry and musical traditions; cinema and theatre. Short story, novel, essays.

Prerequisite: FRE 300 or Departmental Permission. Requirement Designation: Regular Liberal Arts.

FRE 336 - Francophone Sub-Saharan Africa: Literature and Cultures (3)

Introduction to literature and cultures of Francophone sub-Saharan Africa. Selection of prose from the colonial period and primarily from the postcolonial generations, including cinema pioneers and contemporary writers. Poetry, *contes*, satire, popular literature and performance.

Prerequisite: FRE 300 or Departmental Permission. Requirement Designation: Regular Liberal Arts.

FRE 337 - Indian Ocean Literature and Cultures (3)

Literary, poetic and musical traditions from Madagascar, Mauritius, Réunion and the Comoros (including Mayotte). (Post)Colonial and contemporary artistic production from these multiethnic, polyglot and insular cultures of the Indian Ocean. Non-Western forms of writing in French; *kabars*, oral poetry, film and performance; short stories, essays and prose excerpts.

Prerequisite: FRE 300 or Departmental Permission. Requirement Designation: Regular Liberal Arts.

FRE 341 - Twentieth-Century French Literature I: Proust & "L'entre-deux-guerres" Literature (3)

Readings of authors such as Proust, Gide, Colette, Malraux, Cocteau, and Celine.

Prerequisite: All 300-level FRE courses numbered 320 and above carry the following PREREQ: FRE 300. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 342 - Twentieth and Twenty-First Century French Literature II: Post-War to Contemporary Literature (3)

Literature from post-war literary movements including existentialism, the absurd, the nouveau-roman, to the present, including postcolonial literature, and literature about migration and the diaspora.

Prerequisite: FRE 300. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 344 - Modern French Poetry (3)

Readings of poets such as Apollinaire, Saint-John Perse, Ponge, Michaux, Césaire, Bonnefoy, and Eluard.

Prerequisite: All 300-level FRE courses numbered 320 and above carry the following PREREQ: FRE 300. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 346 - Modern French and Francophone Theater (3)

French and Francophone drama from the early 20th century to today including the plays from the Surrealist period, the Theater of the Absurd, the post-war period, postcolonial theater, and contemporary French drama. While focusing primarily on critical reading and writing, the course will also provide an understanding of seminal concepts of theater as performance and live art.

Prerequisite: FRE 300. Requirement Designation: Regular Liberal Arts.

FRE 352 - Special Topics in French Literature (3)

Study of various themes or aspects of French literature.

Prerequisite: Departmental permission required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 356 - Special Topics in Modern French Literature (2)

The discussion and analysis of a specific author, movement, or a limited number of selected works of French literature of the twentieth century.

Prerequisite: All 300-level FRE courses numbered 320 and above carry the following PREREQ: FRE 300. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 357 - Special Topics in French Language (3)

Study of selected topics dealing with language and literature, such as elements of style, rhetorical structure, levels of discourse.

Prerequisite: Departmental permission required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 358 - French Civilization and Culture (3)

Topics in the study of the evolution of scientific, philosophical, artistic, and literary movements and their interaction.

Prerequisite: All 300-level FRE courses numbered 320 and above carry the following PREREQ: FRE 300. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 360 - Cinema for French Conversation (3)

A study of major films reflecting on the history and culture of the French and Francophone world, their themes, styles, and aesthetic commitments. Complementary assigned readings and research projects in French will provide context and necessary vocabulary for class discussions and written compositions on those films from the aesthetic, social and historical contexts. All work will be done in French.

Prerequisite: FRE 202 or placement at the 300 level. Requirement Designation: Regular Liberal Arts.

FRE 370 - Internship (3)

Supervised field placements in translation agencies, tutoring centers, and other environments needing foreign language expertise.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 381 - Tutorial (3)

Opportunity for a student to pursue individual research and reading on a specific topic under close faculty supervision.

Prerequisite: Departmental permission required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 385 - Individualized Advanced Foreign Language Study (1)

Independent study in French generally linked to a course in another field.

Prerequisite: All 300-level FRE courses numbered 320 and above carry the following PREREQ: FRE 300. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 450 - Advanced Seminar (3)

Study in-depth of special topics of French or francophonic literature, which will vary from semester to semester.

Prerequisite: All 300-level FRE courses numbered 320 and above carry the following PREREQ: FRE 300. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FRE 481 - Honors Course in French (3)

Course offering qualified students the opportunity to study special topics within fields that will vary from semester to semester. Individual research under the direction of a French-teaching member of the Department.

Prerequisite: All 300-level FRE courses numbered 320 and above carry the following PREREQ: FRE 300. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FTS - Film and Television Studies

FTS 209 - History of Cinema I (3)

The language of film, film study, film theory, and film techniques in relation to cinematic narrative from 1895-1940.

Offered: Fall-Spring.

FTS 210 - History of Cinema II (3)

Survey of the development and theory of motion picture art from 1940-Present.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FTS 212 - Introduction to Film and Television (3)

Narrative structures, genres, styles, technological practices, criticism, and theory in film and television.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FTS 215 - Camera and Lighting (3)

Basic principles of camera operation, lighting techniques, tools, studio/location shooting, special effects, and post-production techniques as related to film and video.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

FTS 218 - Animation and Anime Narrative (3)

Overview and examination of story construction and presentation in animation/anime films focusing on the theory and practice of storyboard creation.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FTS 224 - Editing (3)

Fundamental principles, practices, and theory of step-by-step editing, with a focus on story, narrative and documentary editing styles.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FTS 226 - Audio Production (3)

Basic audio production techniques, recording, post-production, mixing, and sweetening.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

FTS 258 - Film & TV Analysis (3)

The language of Film, Film & TV study, Film theory, and Film & TV techniques in relation to cinematic television and cinematic narrative.

FTS 309 - Screenwriting (3)

A practical approach to screenwriting for theatre, film, and television from conception to finished script of the screenplay.

Prerequisite: Department permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FTS 316 - Film and Video Production (3)

Theory and practice of filmmaking and video production. Students create narrative films and video productions.

Prerequisite: FTS 215 and FTS 224. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

FTS 317 - Writing for Broadcast TV and Radio (3)

Locating, gathering, writing, and editing news for radio and TV. Analysis of broadcast styles such as radio newscast, TV news magazine, Internet.

Prerequisite: Department permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FTS 324 - Narrative Film (3)

Techniques, structures, practices, and theories in narrative filmmaking.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FTS 343 - Voice-Over for Radio, Film and TV (3)

Performance techniques for the spoken word and script analysis with focus on clarity, vocal performance for differing media applications, microphone technique and audition skills.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

FTS 344 - Acting for the Camera (3)

Fundamental acting techniques specific to performance in film, television and new media.

Offered: Fall-Spring.

FTS 350 - Topics in Film (3)

Themes and movements in film, including historical developments; groupings of films and directors; and genre, styles or critical and theoretical issues.

Prerequisite: Department permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FTS 352 - Television Production (3)

Segment production and guest hosting for community affairs televised talk show. PREREQ: Department permission.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

FTS 360 - Writing for Fictional TV (3)

Selected topics on writing for various genres of TV including children's programming, mini-series, cartoons, sitcom, one-hour drama and TV films. PREREQ: Department permission.

Prerequisite: Department permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FTS 371 - TV and Cultivation Theory (3)

The study of TV as seen through Cultivation Theory, i.e., the long-term effects of TV, content analysis, and audience research.

FTS 404 - Television Directing (3)

Selecting, blocking and arranging visual and audio elements of non-fictional TV production. Projects are produced during the semester.

Prerequisite: FTS 316 or FTS 352. Offered: Fall-Spring.

FTS 409 - Advanced Screenwriting (3)

Completion of one full-length screenplay or two shorter films with screenplays, analysis of one's own and others' written work, experimentation with new genres and technologies, and work with a director to shoot one's own screenplay.

Prerequisite: FTS 309. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

FTS 420 - Cinema Aesthetics and Criticism (3)

Study of the art of cinema through viewing and analysis, both in and out of class, of the works of selected film artists. Supplementary readings in the works of film critics and theorists will be assigned.

Prerequisite: FTS 212 Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

FTS 421 - Film Directing (3)

Theory and practice of controlling and integrating elements of film production. Projects are produced during the semester.

Prerequisite: MMS 316 and instructor's permission.
Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

FTS 481 - Independent Project in Film and TV Studies (3)

Individual capstone project under the direction of a faculty member. Projects may include narrative film, TV film, documentary, full length screenplay or a thesis.

Prerequisite: Department permission.

FTS 491 - Honors Tutorial in Film and TV Studies (3)

The senior honors capstone project, consisting of individual research, writing and producing for film and TV supervised by a faculty mentor.

Prerequisite: 90 college credits, 3.5 GPA in the major, and department permission. Corequisite: FTS 492.

FTS 492 - Honors Colloquium in Film and Television Studies (1)

Weekly gathering of seniors doing independent honors capstone projects with a faculty mentor. Discussion of critical and creative ideas, modes of research, deadlines, progress and editing.

Prerequisite: 90 college credits, 3.5 GPA, and department permission. Corequisite: FTS 491.

FYI - Freshman Year Initiative

FYI 001 - Freshman Seminar (1)

Freshman Seminar

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

GEH - Geography

GEH 101 - An Introduction to Geography (3)

A study of world physical/environmental and cultural patterns and the factors producing them. Maps and atlases are used to recognize and analyze these patterns.

Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

GEH 102 - World Regional Geography (3)

A study of the basic features of each of the world's regions.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 111 - Geography of Business and Marketing (3)

Analysis of location factors in business decision-making, including geographic techniques to locate and define potential markets and marketing campaigns. Evaluation of the market

characteristics of neighborhoods, communities, and populations.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 189 - Regional Geography of Selected Areas (3)

The geography of continents of major areas outside Anglo-American and Western Europe. Special emphasis on the basic principles of economic and cultural geography of regionalization as illustrated in the area under consideration.

Cross-Listed as: LEH GEH 189/GEH 289/LAC 289.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 230 - Human Geography (3)

Study of the approach, key concepts, and methods of human geography. Emphasis will be given to the cultural landscape and location analysis within a systematic framework. The contribution of these concepts to an understanding of societal problems.

Prerequisite: GEH 101 or departmental permission.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 232 - Medical Geography (3)

Introduction to medical geography via a study of the way in which environments affect health and disease. Effect of the distribution of health facilities on community health and access to health services.

Prerequisite: GEH 101, or instructor's permission.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 235 - Conservation of the Environment (3)

The impact of human activities on natural resources and environmental quality. Topics will include soil, forests, water, wildlife, outdoor recreation, and energy resources.

Requirement Designation: Flexible Core - Scientific World. Offered: Fall-Spring.

GEH 240 - Urban Geography (3)

The contribution of geographical concepts and methods to an understanding of contemporary and future urban problems. Emphasis placed on the ghetto and the urbanized region in postindustrial societies.

Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

GEH 242 - Economic Geography (3)

Relationships between economic and geographical systems--with emphasis on developmental processes at the regional, national, and international levels.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 245 - Introduction to Quantitative Methods of Geography (3)

Introduction to geographical informational systems: question formulation, data collection and organization, basic mathematical and statistical methods of analysis, and presentation of analytic results.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 266 - Geography of Development (3)

An introduction to the spatial aspects of economic development. The course provides a basis for understanding the cultural, physical, and economic differences between the world's developed and underdeveloped regions.

Prerequisite: GEH 101, GEH 102, or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 267 - The New York Metropolitan Region (3)

An introduction to the way a geographer looks at the New York metropolitan region and its problems. Topics include the physical environment, population growth and distribution, housing and employment patterns, and transportation systems.

Prerequisite: GEH 101, GEH 102, or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 270 - Field Geography (3)

One day of lab work and 10 days of field work to provide an introduction to the study of urban and rural land uses and the techniques of mapping them, including the use of aerial photographs.

Prerequisite: GEH 101 or departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 275 - Field Geography of New York City and Vicinity (3)

(Spring semester, Saturdays only.) Field studies, with the aid of maps and aerial photographs, of urban and urban-fringe land use--with emphasis on such problems as the reasons for the distribution of people, their industrial and commercial activities, and their transportation facilities. Study of geographic mapping techniques and practice in field mapping.

Prerequisite: GEH 101 or departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 281 - Geography of the United States and Canada (3)

The major features of the natural and human environments of the United States and Canada. Selected regions such as the East coast Megalopolis and the Great Plains.

Prerequisite: GEH 101, GEH 102, or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 283 - Geography of Western Europe (3)

Geographic factors in the economic, social, and political situation of the countries of Western Europe. Major emphasis will be given to a geographic analysis of the problems and changes characterizing the area.

Prerequisite: GEH 101, GEH 102, or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 285 - Regional Geography of Asia (3)

The geography of continents or major areas outside Anglo-American and Western Europe. Special emphasis on the basic principles of economic and cultural geography of regionalization as illustrated in the area under consideration.

Prerequisite: GEH 101, GEH 102, or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 287 - Regional Geography of Africa (3)

The geography of continents or major areas outside Anglo-American and Western Europe. Special emphasis on the basic principles of economic and cultural geography of regionalization as illustrated in the area under consideration.

Prerequisite: GEH 101, GEH 102, or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 289 - Regional Geography of Latin America (3)

The geography of continents or major areas outside Anglo-American and Western Europe. Special emphasis on the basic principles of economic and cultural geography of regionalization as illustrated in the area under consideration.

Prerequisite: GEH 101, GEH 102, or Departmental permission. Cross-Listed as: LEH GEH 189/GEH 289/LAC 289. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 291 - Regional Geography of Eastern Europe and the Former Soviet Republics (3)

The geography of continents or major areas outside Anglo-American and Western Europe. Special emphasis on the basic principles of economic and cultural geography of regionalization as illustrated in the area under consideration.

Prerequisite: GEH 101, GEH 102, or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 293 - Geography of New York State (3)

An analysis of the regions of New York State and the study of recreational agricultural, and urban landscapes through a variety of visual materials. The environmental relationships of historical, economic, political, demographic, and physical geographic factors are systematically investigated.

Prerequisite: GEH 101, GEH 102, or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 295 - Middle East: Regional Geographic Perspective (3)

Physical, cultural, and human geography and environmental issues of the Middle East from antiquity to present.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

GEH 315 - Historical Geography (3)

The relationship between man and environment through time, with emphasis on the United States and/or Europe. Historical background and distribution of population, settlement, and resource utilization--processes that have transformed natural into cultural landscapes.

Prerequisite: GEH 101 or departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 320 - Population Geography (3)

Relationships between demographic and geographical systems. The geographer's contribution to the understanding of population problems.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 325 - Political Geography (3)

Political organization and territory. Location, environmental influences, boundaries, and processes of integration and disintegration considered at all levels of the political hierarchy (local, metropolitan, national, and international).

Prerequisite: GEH 101 or one semester of POL or departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 330 - The History of Geographic Thought (3)

The history of explorations, of discovery, and of the growth of knowledge and communications. Geography as an intellectual discipline and the systematic organization of our knowledge of the world. Course also covers the variety of specialties and careers in the field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 335 - Problems in Human Ecology (3)

The major geographic issues resulting from the interaction between mankind and the environment. Topics will include the problems of population growth and changes and the environmental implications of modern technological systems.

Prerequisite: GEH 235 or GEP 230. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 340 - Advanced Urban Geography (3)

Individual research, including reading and in some areas lab or field investigations, to be carried out under the individual guidance of a staff member. The results must be embodied in an honors essay or other suitable presentation.

Prerequisite: Either GEH 240 or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEH 490 - Honors in Geography (One semester, 2, 3, or 4 credits (may be repeated for a maximum of 6 credits).)

Individual research, including reading and—in some areas—laboratory or field investigations, to be carried out under the individual guidance of a staff member. The results must be embodied in an honors essay or other suitable presentation.

Prerequisite: Departmental permission.

GEO - Geology

GEO 100 - Oceans (3)

The physical, chemical, and biological components of the integrated sea and ocean system, its role in climate, biologic evolution, and human society.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 101 - Dynamic Earth (3)

Exploration of the Earth systems: the rock beneath our feet, the water on its surface, the atmosphere, life and their multiple connections; geohazards; human impact.

Requirement Designation: Life and Physical Sciences or Scientific World. Offered: Fall-Spring.

GEO 102 - Dynamic Earth Laboratory (1)

Introduction to Earth materials; geologic time and dating techniques, analysis and interpretation of geologic features and processes, including earthquakes, coastal process and plate tectonics. The scientific method in Earth systems science.

Prerequisite: PRE/COREQ: GEO 101. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 150 - Geology in Art and Society (3)

Historical review of geological science through selected topics with a focus on the relationship between geology, the arts, and the development of human society.

Offered: Fall-Spring.

GEO 166 - Processes of Global Change (4)

Evolution of the planet Earth; global composition and circulation of earth's air, water, and rock systems, and their interaction with the biosphere. Earth science based analysis of transnational and global environmental problems.

Management of our energy, mineral, and material resources.

Prerequisite: Completion of the College Requirement in Mathematics. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 167 - Earth Evolution (3)

Stages in the history of the Earth system. Fundamental geologic concepts, origin of the Earth, the ancient seas and their changing shorelines, the continents and mountains and the evolution of life on Earth as seen in the fossil record.

Requirement Designation: Life and Physical Sciences or Scientific World. Offered: Fall-Spring.

GEO 168 - Earth Evolution Laboratory (1)

Study of important rocks and fossils, correlation and dating methods, interpretation of stratigraphic sections, case study reconstruction of geologic history.

Prerequisite: GEO 167 Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 228 - Weather and Climate (3)

Study of atmospheric processes and phenomena including air pressure and wind, atmospheric circulation, air temperature and humidity, clouds, extreme weather events (thunderstorms, tornadoes, hurricanes), climate change, weather forecast and others.

Cross-Listed as: LEH Weather & Climate. Requirement Designation: Flexible Core - Scientific World. Offered: Fall-Spring.

GEO 229 - Weather and Climate Laboratory (1)

Weather and climate related measurements, calculations, exercises, and development of skills based on the knowledge acquired in GEP 228/GEO 228.

Prerequisite: GEP 228/GEO 228. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 231 - Principles of Geomorphology (3)

Systematic study of the face of the earth; the characteristics, distribution, classification, origin, and evolution of the earth's surface features. Laboratory work includes the study of

topographic maps, models, slides, and photographs. Field experience.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 236 - Environmental Geology (4)

The geologic aspects of land and ocean use. Geological nature and control of water, sand, gravel, building sites, and recreational areas. Geological factors in both exploitation and conservation of the environment.

Prerequisite: GEO 100, GEO 101, or GEO 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 242 - Introductory Paleontology (4)

The history of animals and plants over geologic time.

Paleontology evolution and extinction of organisms as seen in the fossil record. Laboratory work, supplemented by field trips.

Prerequisite: GEO 167 or BIO 167, or instructor's permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 244 - Mineralogy (4)

Introduction to crystallography, determinative mineralogy of rock-forming minerals. Mineral identification of hand specimens in the laboratory. Field experience.

Prerequisite: GEO 100, GEO 101, or GEO 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 245 - Earth Materials (4)

Presentation of the fundamentals of mineralogy and petrology (igneous, metamorphic, sedimentary) with a focus on common rock-forming minerals, crystal structure, mineral and rock identification, soil, and water within the context of biogeochemical cycles.

Prerequisite: PREREQ: GEO 101, GEO 166, or GEO 167. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 250 - Introduction to Geologic Field Mapping Techniques (3)

Geologic methods of field data investigation and analysis within the context of the local (regional) geological settings.

Prerequisite: Departmental permission. Offered: Fall-Spring.

GEO 301 - Earth Science for Educators (4)

A hands-on, analytical approach to pedagogy-linked content of Earth system science. Topics include the origin, evolution, structure, and composition of biogeochemical processes.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 303 - Stratigraphy and Sedimentology (4)

Techniques of physical and paleontologic correlation of rock sequences. Application of these techniques to basin analysis and construction of the geologic time scale. Modern classic and carbonate sedimentary environments, physical and chemical principles of sedimentation and paleoenvironmental analysis. Emphasis on the evolution of and search for water and hydrocarbon resources.

Prerequisite: GEO 167 and GEO 244. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 332 - Advanced Oceanography (3.5)

Interaction between the geologic and biotic elements of the oceans and their basins. Emphasis is on correlating the broad spectrum of approaches in modern oceanography. PREREQ: GEO Major: GEO 100, either BIO 166 or BIO 167, and either CHE 114 or CHE 166 and CHE 167. PREREQ: BIO major: BIO 166 and BIO 167, GEO 166, and either CHE 114 or CHE 166 and CHE 167.

Prerequisite: See course description above. Cross-Listed as: LEH BIO 332/GEO 332. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 333 - Petrology (4)

The origin, distribution, association, and classification of common rocks. Use of equilibrium phase diagrams to illustrate observed petrologic phenomena. Stability of common minerals and mineral assemblages in differing pressure-temperature-chemical regimens. Lab involves examination of suites of rocks from significant localities. Reports and field trips.

Prerequisite: GEO 244. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 340 - Natural Hazards and Disasters: A Multidisciplinary Approach (3)

Natural hazards and disasters: origin, physical and social implications. Elements of geographic, geological, social and political analysis applied to risk estimation and mitigation and management.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 341 - Natural Hazards and Disasters Laboratory (1)

Lab supplements GEO 340 with designed exercises, simulations and critical review and analysis of current and historic disasters. Students will use statistical methods, interactive mapping software and case studies to learn technical skills and gain insight into complexity of disaster modeling, management and mitigation.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 342 - Micropaleontology (4)

Introduction to the study of the important groups of microfossils (both plant and animal), with emphasis on their evolution and usefulness in ecologic, biogeographic, and stratigraphic interpretation. Lab will stress techniques necessary for preparation and study of the various groups. Field experience.

Prerequisite: Either GEO 167 or BIO 266. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 344 - Optical Mineralogy (4)

Theory and methods of optical crystallography. Basic techniques for determining the optical constants of non-opaque minerals in thin sections. Studies of several groups of rock-forming minerals. Introduction to reflected light microscopy of opaque minerals. Lab study and identification of minerals by means of the petrographic microscope.

Prerequisite: GEO 100 or GEO 101, and GEO 244. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 345 - Environmental Hydrology (4)

Study of water dynamics below and above the Earth surface, ranging from large river systems to single drainage areas; global and local factors controlling water flow and storage; main hydrologic laws, equations and their solutions; application of hydrologic methods for environmental monitoring and protection, hydrologic design and planning.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 348 - Structural Geology (4)

The deformation of the earth's crust: mechanics of rock deformation. Concepts of stress and strain: behavior of rocks under stress. Results of experimental rock deformation, and their application to naturally deformed rocks. Description and analysis of large- and small-scale structures and the mechanisms that produce them. Selected regional examples. Laboratory studies include orthographic and stereographic projection techniques of problem solving and work with maps and cross-sections. Field experience.

Prerequisite: GEO 167 and plane geometry. Recommended: PHY 168. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 350 - Topics in regional geology and mapping techniques (4)

Geologic methods of fields data investigation and analysis using Geographic Information Systems (GIS) and Global Positioning System (GPS) within the context of the local (regional) geological settings

Prerequisite: Department Consent Required Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

GEO 370 - Regional Field Geology and Mapping Techniques (4)

Geologic field methods, data acquisition and analysis within the context of a regional geological setting. Typically offered during summer session, may require residence at field camp.

GEO 375 - Field Problems in Geology (3)

One day of laboratory work and ten days of selected field problems in New York State, New England, New Jersey, or Pennsylvania. Areas will vary from year to year. Geologic maps will be made from topographic or air photo bases and will be supplemented by written reports on the individual areas.

Prerequisite: Either GEO 167 or GEO 244. Requirement Designation: Regular Liberal Arts. Offered: Spring-Summer.

GEO 401 - X-ray Crystallography (4)

Point groups, translation, space groups, theory of x-ray diffraction. Reciprocal lattice theory. Identification of inorganic solid substances. Lab techniques: powder diffractometer, Debye-Scherrer, single-crystal Laue, and precession methods.

Prerequisite: Either GEO or CHE majors. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 410 - Environmental Biogeochemistry (4)

In-depth study of environmental biogeochemical processes and issues, ranging from aquatic to terrestrial systems. Computer and biogeochemistry laboratory exercises are designed to provide experience in national transnational environmental analysis.

Prerequisite: BIO 167, CHE 166, GEO 166, or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 426 - Advanced Sedimentology (3)

An exposition of the mechanisms of sedimentation from the point of view of fluid dynamics. Description of sediments and interpretation of their genesis by means of statistical methods.

Prerequisite: GEO 100 or GEO 101, GEO 244, and MAT 176. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 440 - Environmental Impact Assessment (4)

Overview of assessment of environmental conditions ranging from degradation in air and water quality to noise and visual pollution due to anthropogenic and natural causes.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 448 - Plate Geotectonics (4)

Plate Tectonics as a unifying theory: the driving mechanisms of crustal deformation. Evidence supporting sea-floor

spreading and plate motions: geophysical and geologic data. Description and comparison of active and ancient tectonic belts. Implications of plate tectonics, continental drift, and mountain building, the role of plate tectonic cycle in renewal of Earth's surface, and relation with other biogeochemical cycles. Readings from original papers. Laboratories include geologic map study of older tectonic belts and techniques of measuring, plotting, and interpreting structural data of deformed rocks.

Prerequisite: GEO 101, GEO 166 and GEO 167. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 450 - Seminar (2 (maximum 4 credits.))

Major topics of current interest in geology. Topic and instructor will change each semester.

Prerequisite: GEO 244 and one 300-level GEO course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEO 4500 - Topics in Earth Science (2)

Advanced study in selected Earth science topics or field problems.

GEO 470 - Summer Oceanographic Research Cruise (3)

Study of 3 oceanographic regimes: estuary, sound, and open ocean. Students will learn contemporary techniques by gathering and analyzing hydrographic, biologic, and geologic data from a series of stations in each of the three regimes. The entire instructional program will take place on board the CUNY Oceanographic Research Vessel. The student will live on board ship for 10 days. Analysis and reporting data on board ship will constitute a lab notebook to be turned in at the end of the cruise.

Prerequisite: Either GEO 332 or BIO 332 or BIO 335. Cross-Listed as: LEH BIO 470/GEO 470. Requirement Designation: Regular Liberal Arts. Offered: Spring-Summer.

GEO 490 - Honors in Geology (One semester; 2, 3, or 4 credits (may be repeated for a maximum of 6 credits.))

Individual research, including reading and—in some cases—laboratory or field investigations, to be carried out under the individual guidance of a staff member. The results must be embodied in an honors essay or other suitable presentation.

Prerequisite: Departmental permission.

GEP - Physical Geography**GEP 199 - Cartography and Graphic Presentation I (4)**

Use of drawing instruments; free-hand and mechanical lettering in the construction of maps, diagrams, graphs, and charts. Elements of distance, direction, and position. Study of map projections and their use; construction of some simpler projections. Methods of enlarging and reducing maps;

drawing of profiles and traverse made by students in the field. Practice in the transformation of data of various kinds into effective types of charts and graphs.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEP 204 - Basic Mapping: Applications and Analysis (3)

An introduction to the world of maps-how to use, interpret, and analyze maps. History of cartography, map projections, scales, measurements, contour interpretations, thematic maps, charts and graphs, remote sensing, aerial photos, and geographic information systems.

Requirement Designation: Life and Physical Sciences or Scientific World. Offered: Fall-Spring.

GEP 205 - Principles of Geographic Information Science (3)

The use of Geographic Information Systems for conducting research and spatial analysis in the natural and social sciences. The use of computer mapping and spatial analysis technologies for studying the physical and human components of the earth's environment.

Prerequisite: GEO 101, or GEH 101, or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEP 226 - Physical Geography (4)

Introduction to physical geography, including basic earth-sun relationships, weather and climate, land forms, vegetation, soils, and water resources. Laboratory exercises stress the use and interpretation of maps and other graphic materials.

Prerequisite: 3 credits in Geography or Geology. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEP 227 - Interpretation of Aerial Photography (3)

Interpretation of Aerial Photography.

Prerequisite: 3 credits in Geography or Geology. Offered: Fall-Spring.

GEP 228 - Weather and Climate (3)

Study of atmospheric processes and phenomena including air pressure and wind, atmospheric circulation, air temperature and humidity, clouds, extreme weather events (thunderstorms, tornadoes, hurricanes), climate change, weather forecast and others.

Requirement Designation: Flexible Core - Scientific World. Offered: Fall-Spring.

GEP 229 - Weather and Climate Laboratory (1)

Weather and climate related measurements, calculations, exercises, and development of skills based on the knowledge acquired in GEP 228/GEO 228.

Prerequisite: GEP 228/GEO 228. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEP 230 - Urban Environmental Management (3)

Basic issues and possible solutions to problems of the urban environment, including solid waste management, air and water quality, noise pollution, and open-space beautification. Course includes strategies for citizen participation and organization related to local environmental projects.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEP 299 - Cartography and Graphic Presentation II (4)

More advanced work in map projections, charts, and graphs. Drawing of contour maps with plastic shading, physiographic maps, and perspective-block diagrams. Problems in the selection of projections and scales for various purposes. Practice in planning and layout of maps and graphs with a view to reproduction-use of reprinted overlays for example.

Prerequisite: GEP 199. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEP 302 - Biogeography (4)

Analysis of origin, distribution, adaptation, and association of plants and animals. Development of living communities considered particularly in space but also in time. Stress placed on broad distributional relationships.

Prerequisite: GEP 226 and BIO 166, BIO 167. Cross-Listed as: LEH BIO 302/GEP 302. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEP 3060 - Raster Applications (3)

Raster based operations including the creation, modification, analysis and integration with vector data, using a Geographic Information System (GIS). Topics include surface analysis, multi-criteria/multi-objective evaluation, and map algebra.

Prerequisite: GEP 205 or instructor's permission. Offered: Fall-Spring.

GEP 310 - Geography of Urban Health (3)

A geographical examination of urban health. Topics include the historical perspective of health, place, and society; mapping and measuring health and health impacts; the social and spatial patterning of health; the geography of health inequalities and disparities; health and social/spatial mobility; and the effects of urban segregation, overcrowding, and poverty on disease. Geographic Information Science will be used in the laboratory exercises to illustrate the theoretical concepts and to produce worked examples of health geography.

Prerequisite: GEP 204 or GEP 205 or instructor's permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

GEP 321 - Introduction to Remote Sensing (4)

Fundamental of remote sensing, energy interactions between the sun, atmosphere and features on the earth surface. Structure of raster data, cell size, and both passive and active remote sensing. Spatial, spectral, radiometric and temporal resolution characteristics of different multispectral remotely sensed data using specialized image analysis software.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEP 330 - Spatial Statistics and Advanced Quantitative Methods in Geography (3)

A focus on geospatial statistics and the application of advanced quantitative techniques to real-world geographic problems. Concepts and application of exploratory spatial data analysis (ESDA), traditional statistics, and geospatial statistics within various software packages.

Prerequisite: GEP 204 or GEP 205 or instructor's permission. An introductory course in descriptive statistics is recommended. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

GEP 350 - Special Projects in Geographic Information Systems (4)

May be repeated when topic changes, for a maximum of 8 credits. Special topics in the use of Geographic Information Systems for conducting research and spatial analysis in the natural and social sciences. The advanced use of computer mapping and spatial analysis for studying the physical and human components of the earth's environment.

Prerequisite: GEP 199, GEP 205, or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEP 360 - Geovisualization and Analytic Cartography (4)

Creating maps using advanced Geographic Information Science (GISc) techniques. Focus on understanding cartographic conventions and principles of good cartographic design, and analysis of complex spatial data through geovisualization methods.

Prerequisite: GEP 204 or GEP 205 or Department Consent. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GEP 375 - Data Acquisition GIS (3)

Acquisition of spatial data and its incorporation into analytical frameworks for geological and geographic analysis. Use of Geographic Information Systems (GIS) for mapping and data analysis, development of practical skills for work with collected terrain data, satellite imagery and scanned media. Labs will analyze data collected in the field using Global Positioning Systems (GPS) and from various agencies,

process and post-process collected data; address issues of accuracy and use of GPS in planning.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

GEP 3750 - Data Acquisition and Integration Methods for GIS Analysis (3)

The techniques and science of data acquisition and creation for spatial analysis in a geographic information system (GIS); includes field data collection. Students will be instructed in the use of GPS devices, mobile GIS, workstation GIS, as well as data from other sources including remotely sensed data.

Prerequisite: GEP 204 or GEP 205 or Instructor's permission. Offered: Fall-Spring.

GEP 3770 - Field Investigation Methods in Regional Physical Geography (4)

Principles of field investigation in physical geography using maps, Global Positioning Systems (GPS) and collected samples; making observations and documenting findings; field data analysis, interpretation and integration of physical geographic features with the history of the region, statistical and Geographic Information Systems (GIS) data.

Offered: Fall-Spring.

GEP 380 - Emerging Methods and Techniques in Geographic Information Science (GISc) (3 (May be taken up to three times for credit, up to 9 credits))

Current and innovative issues, technologies, and methods in the field of Geographic Information Science.

Prerequisite: GEP 204 or GEP 205, or Departmental permission. Requirement Designation: Regular Liberal Arts.

GEP 470 - Seminar and Internship Program in Geography (4 (may be repeated for a total of 8 credits.))

Review of current professional issues in the practice of Geography, especially in the fields of Geographic Information Systems (GIS), Environmental Geography, and Urban Geography, with weekly work as an intern in various organizations.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER - German

Note: All 300-level courses in this section carry the following PREREQ: Either satisfactory completion of 30 college credits or 6 credits in GER or other literature courses.

GER 100 - Elementary German-Intensive Course (6)

Elements of grammar, reading of simple texts, and practice in speaking and writing.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 101 - Elementary German I (4)

Elements of grammar, reading of simple texts, and practice in speaking. Audiolingual work in the Language Laboratory.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 102 - Elementary German II (5)

Elements of grammar, reading of simple texts, and practice in speaking and writing. Audiolingual work in the Language Laboratory.

Prerequisite: GER 101 or GER 103 or Departmental Placement. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 103 - Elementary German I (3)

Elements of grammar, reading of simple texts, and practice in speaking.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 104 - Elementary German II (3)

Elements of grammar, reading of simple texts, and practice in speaking and writing.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 107 - German Reading Course (3)

A concentrated course for beginners who wish to acquire only a general reading knowledge of German as rapidly as possible.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 108 - Elementary German for General Reading Purposes II (3)

A continuation of GER 105. Intended as preparation for GER 207.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 111 - Elementary German I (3)

Elements of grammar, reading of simple texts, and practice in speaking. Audio-lingual work in the Language Laboratory.

Prerequisite: Department Consent Required Requirement Designation: College Option. Offered: Fall-Spring.

GER 112 - Elementary German II (3)

Elements of grammar, reading of simple texts, and practice in speaking and writing. Audio-lingual work in the Language Laboratory.

Prerequisite: Either GER 101, GER 103, GER 111, or one year of high school German (or equivalent). Requirement Designation: College Option. Offered: Fall-Spring.

GER 201 - Intermediate German (3)

Reading and discussion of prose and poetry, grammar review, and practice in speaking and writing.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 202 - Introduction to German Literature (3)

Reading and discussion of selected literary works, grammar review, and practice in speaking and writing.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 205 - German Literature on Records (1)

German literature on records, spoken, or sung.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 207 - Reading Course in Expository Prose (1)

For students concentrating in the natural and social sciences and in related areas where secondary literature in German is important. Texts deal with student's own field of interest.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 209 - Intermediate German Conversation (2)

For students who wish to gain greater fluency in spoken German in preparation for literature courses conducted in German and for study/travel in a German-speaking area.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 281 - Individual Study in Germanic Languages (3)

Language work under the direction of a faculty member to meet the student's particular requirements.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 285 - Individualized Intermediate Foreign Language Study (1)

Independent study in German generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 301 - German Literature I (3)

Reading and discussion of selected works by outstanding writers of the modern period such as Thomas Mann, Hesse, Kafka, and Brecht.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 302 - German Literature II (3)

Reading and discussion of selected works by outstanding writers of the classical period.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 307 - Translation from German into English (3)

Practice in skills and techniques of translating German expository texts.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 308 - Advanced German Composition (3)

Intensive practice in writing, stylistics, and vocabulary building.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 309 - Advanced German Conversation (3)

Intensive practice in German conversation.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 310 - Comparative Grammar (3)

Comparative analysis of English and German morphology, basic phonology, and syntax.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 315 - German Civilization (3)

Study of the development of German culture: its regional diversity and contributions to Western Civilization.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 321 - Survey of German Literature (3)

Study of the history of German literature from the earliest documents to the beginning of the 18th century

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 323 - German Lyric Poetry (3)

Analysis of poems of the 17th century to the present.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 325 - German Prose of the Nineteenth Century (3)

Reading and discussion of works by Kleist, Hoffmann, Keller, Fontane, Meyer, and others.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 326 - German Prose of the Twentieth Century (3)

Reading and discussion of works by Mann, Kafka, Boll, Grass, and others.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 327 - German Drama of the Nineteenth Century (3)

Reading and discussion of plays by Kleist, Buchner, Grillparzer, Hebbel, and others.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 328 - German Drama of the Twentieth Century (3)

Reading and discussion of plays by Kaiser, Brecht, Durrenmatt, Frich, and others.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 333 - Goethe (3)

Selected works (excluding Faust) written after the Sturm and Drang.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 334 - Goethe's Faust (3)

Detailed study of Faust I and II, and consideration of selected secondary literature.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 340 - Famous Works of German Literature in English Translation (3)

See Department for Description.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 341 - Contemporary German Literature in English Translation (3)

Reading and discussion of works written since World War II by authors such as Boll, Grass, Frisch, and Weiss.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 344 - Faust (In English) (3)

Detailed analysis and discussion of Goethe's Faust, the origin of the Faust legend, and the cultural ambience from which the classic drama emerged.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 346 - Brecht's Plays and their Sources (In English) (3)

Study of Brecht's approach to dramatic writing through a comparative analysis of selected plays by Brecht and those works in non-German literatures which he used as sources.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 348 - Modern Scandinavian Prose (In English) (3)

To acquaint students with 20th century Scandinavian literature through Danish, Swedish, Norwegian, and Icelandic novels.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 349 - The Modern German and Scandinavian Drama (In English) (3)

Comparative study of the modern drama from Ibsen and Hauptmann to the present.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 350 - Proseminar (3)

Study of life and works of a German writer.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 351 - Seminar (3)

Investigation of a significant theme and its treatment in German literature.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 352 - German Writers (1)

Study of the work of a German writer.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 355 - Aspects of German Culture (3)

An examination of selected aspects of culture of one or more of the German-speaking nations.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 360 - German Authors in English Translation (3)

Study of the life and works of a German writer.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 361 - German Writers in English Translation (1)

Study of the works of a German writer.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 362 - Topics and Themes in German Literature (In English) (3)

Investigation of the significance and treatment of topics and themes in German literature.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 365 - Aspects of German Culture (In English) (3)

An examination of selected aspects of the culture of one or more of the German-speaking and/or Scandinavian nations.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 366 - German Films (In English) (3)

Recent German movies by Kautner, Wicki, Schlöndorff, Fassbinder, and other directors. Analysis of plots and characters against the background of twentieth-century Germany.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 381 - Tutorial in German (3)

Individual study in advanced German under faculty direction.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 385 - Individualized Advanced Foreign Language Study (1)

Independent study in German generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 450 - Independent Study in Drama and Theatre (In English) (3)

See Department for Description.

Cross-Listed as: LEH SLA 450/GER 450. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 481 - Tutorial (3)

Independent studies in an area or aspect of German literatures in which no formal course work has been done.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 485 - Special Studies (3)

Individual study and independent research in German literatures in consultation with a staff member. A paper is required.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GER 491 - Honors Project (3)

Individual study and independent research in consultation with a staff member. An essay is required.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK - Greek**GRK 101 - Introduction to Ancient Greek I (4)**

GRK 101 and 102 constitute a two-semester sequential unit of instruction designed for students who have had no previous training in Greek. The objective of this sequence is to train the student to read graded passages of Greek literature chosen from ancient authors.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 102 - Introduction to Ancient Greek II (5)

Concludes the study of syntax and vocabulary started in GRK 101 and begins the reading of continuous Greek texts.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 103 - Elementary Ancient Greek (3)

Elementary Ancient Greek.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 104 - Elementary Greek 2 (3)

Elementary Greek 2.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 227 - Plato: The Trial of Socrates (3)

Plato's account of the trial and death of Socrates as presented in the apology, Crito, and Phaedo. Readings of selections, chiefly from the apology.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 228 - Homer: The Iliad (3)

Introduction to the epic. Readings from the Iliad.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 229 - New Testament Greek (2)

Introduction to the koine Greek. Selected readings from the New Testament.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 230 - Greek Prose Authors (3)

Selections in prose from all periods of Greek literature.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 281 - Intermediate Greek Tutorial (3)

Individual readings in Greek prose and poetry under faculty direction.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 285 - Individualized Intermediate Foreign Language Study (1)

Independent study in Greek generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 301 - Homer's Odyssey (3)

Study of the Odyssey as a whole, with extensive reading of selections in the original.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 302 - The Homeric Hymns and Hesiodic Poetry (3)

Study of early non-narrative hexameter poetry.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 303 - Greek Lyric Poetry (3)

Wide reading in individual and choral lyric, with extensive selections from either Pindar or Theocritus. Some attention to early elegiac and iambic poetry.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 304 - Aeschylus (3)

Reading of one or more plays of Aeschylus.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 305 - Sophocles (3)

Reading of one or more plays by Sophocles.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 306 - Euripides (3)

Reading of one or more plays by Euripides.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 307 - Aristophanes (3)

Selections from Aristophanes and other Attic writers of his time.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 308 - Thucydides (3)

Selections from the history of the Peloponnesian War.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 309 - Xenophon (3)

Selections, chiefly from the Anabasis.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 310 - The Attic Orators (3)

Reading from the Attic orators from Lysias through Demosthenes.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 314 - Plato (3)

Reading of selected dialogues.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 315 - Comparative Grammar (3)

Comparative analysis of English and Greek morphology, basic phonology, and syntax.

Prerequisite: GRK 281 or Departmental permission.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 381 - Tutorial (3)

Individual study of a special field or author.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 385 - Individualized Advanced Foreign Language Study (1)

Independent study in Greek generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 400 - Greek Prose Composition and Stylistics (2)

A review of Greek grammar and syntax, in conjunction with analysis and imitation of standard Greek prose stylists.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

GRK 491 - Honors Research (3)

Individual study of a special field or author.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU - Hebrew Culture

(No knowledge of Hebrew required.)

HCU 100 - Elementary Yiddish - Intensive Course (6)

Elements of grammar, reading of simple Yiddish prose, practice in speaking, and audiolingual work in Language Lab. Represents a complete 1st year course in Yiddish and is equivalent to the 2-semester sequence YDH 101-102.

Cross-Listed as: LEH HCU 100/YDH 100. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 101 - Elementary Yiddish I (5)

Introduction to spoken and written Yiddish, with stress on speaking, pronunciation, reading, writing, and cultural aspects.

Cross-Listed as: LEH HCU 101/YDH 101. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 102 - Elementary Yiddish II (5)

Continuation of HCU (YDH) 101.

Cross-Listed as: LEH HCU 102/YDH 102. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 111 - The World of the Old Testament (3)

Study of the world of the Old Testament.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 201 - Intermediate Yiddish I (3)

Speaking, reading, writing, and cultural aspects.

Cross-Listed as: LEH HCU 201/YDH 201. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 202 - Intermediate Yiddish II (3)

Speaking, reading, writing, and cultural aspects.

Cross-Listed as: LEH HCU 202/YDH 202. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 302 - Biblical History and Archaeology (3)

Study of biblical history in the light of archaeological research. Readings from ancient Hebrew sources in translation in relation to major archaeological discoveries in Israel and the Near East.

Cross-Listed as: LEH HCU 302/HIA 302. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 304 - Ancient Jewish History (3)

Survey of the development of the Jewish people, including the origin of the Hebrews, the experience at Sinai, the United and Divided Commonwealth, Jewish law and thought, and contacts with the Greeks and Romans.

Cross-Listed as: LEH HCU 304/HIA 304. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 307 - The Course of Modern Jewish History (3)

Survey of the Jewish people in the Western world during the past 300 years; their struggle for political and social equality, their search for new homes, and new forms of life. The new Jewish centers, Messianic hopes, and the struggle for emancipation; the Enlightenment movement; religious, national, and social trends; migration of Jews to America; World Wars I and II; and the emergence of the State of Israel.

Cross-Listed as: LEH HCU 307/HIS 307. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 308 - The Jews of Tsarist and Soviet Russia (3)

Russian Jewry from the nineteenth century until the present, with special emphasis on Jewish life in Russia since 1917; Tsarist oppression and ideological developments; World War I and the era of revolutions; interwar consolidation and socioeconomic construction; World War II and the Nazi occupation; the Stalin era; and de-Stalinization and recent developments in Soviet Jewry.

Cross-Listed as: LEH HCU 308/HIW 308. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 318 - The Jewish Tradition in Modern French and German Literature (3)

The sociological and psychological implications of the writings of leading German-Jewish and French-Jewish authors will be examined. In addition to a study of the works of these authors in translation, critical readings will be consulted.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 319 - Masterpieces of Ancient and Medieval Hebraic Literature in Translation (3)

See Department for Description.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 320 - Readings in Modern Hebraic Literature in Translation (3)

Survey of Hebraic literature from the Enlightenment movement to the present reflecting the problem of Jewish identity, the emergency of nationalism and Zionism, the holocaust, and the resurgence of the State of Israel. Emphasis on the writings of Mendelevich, Sefarim, Ahad Ha'am, Bialik, Tchernichowsky, Berdichevsky, Brenner, A.D. Gordon, Barash, Agnon, Hazaz, and U.Z. Greenberg, as well as selections from the contemporary Israeli writers.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 324 - Job, Ecclesiastes, and the Human Predicament (3)

Study of these two biblical masterworks in English translation and analysis of their place in the religious and secular thought of the Western world. Emphasis on the problem of evil and the contribution of biblical wisdom literature to an understanding of human existence.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 325 - The Hebrew Prophets (3)

Study of the prophetic movement in ancient Israel from mosaic to postexilic times. Attention to major motifs and contributions of the prophets to historical, ethical, and religious thought. Literary analysis of rhapsodic and oracular poetry in the Bible.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 326 - Cultural Foundations of Modern Israel (3)

Study in depth of the methods of modern Israel. Extensive readings from related literary, philosophical, and publicistic writings that have shaped the new social and spiritual forms in the state of Israel.

Cross-Listed as: LEH HCU 326/MES 326. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 330 - The Jews During the Middle Ages (3)

Study of the expansion of the Diaspora during the Dark Ages; Babylonian Jewry, its institutions, and history; Jews in Moslem Spain; the emergence of Franco-German Jewry; and Jewish life in medieval Christian Europe.

Cross-Listed as: LEH HCU 330/HIA 330. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 333 - A History of the Jews in Spain and the Sephardic Dispersion (3)

The Jewish community in Visigothic, Muslim, and Christian Spain; the social, economic, and religious life of the Jews, with emphasis on the Muslim-Jewish symbiosis in the arts and sciences during the "Golden Age." the decline of Jewish life in Spain, the disquisitions, the Inquisition, marrano problems, and expulsion. The Sephardic Diaspora in the Mediterranean world will be studied in some detail.

Cross-Listed as: LEH HCU 333/HIA 333. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 340 - Masterpieces of Yiddish Literature in Translation (3)

Study of major works in Yiddish literature against the background of Jewish life in the cultural centers of Eastern Europe and the United States. Selections from Mendele Mocher Sforim, Peretz, Sholom Aleichem, and

representatives of Soviet and American Yiddish literature will be covered.

Cross-Listed as: LEH HCU 340/YDH 340. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 342 - Anti- Semitism from Early Christianity to Hitler (3)

The origins of the conflict between Christianity and Judaism, and the fate of the Jews in Medieval Europe. The gradual liberation and assimilation of the Jews of the Western Europe, 1789-1870. The rise of modern racism and anti-Semitism in Europe, 1889-1939. Hitler, the Nazis, and the destruction of European Jewry during World War II. Anti-Semitism in the contemporary world. Social-psychological and cultural theories of anti-Semitism will be considered.

Cross-Listed as: LEH HCU 342/HIS 342. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 343 - The Holocaust (3)

Study of the destruction of the Jews of Europe during World War II. Political anti-Semitism in modern Europe. The rise of Hitler and Nazism. The interwar period in Europe and the spread of anti-Semitism. World War II, ghetto, deportation, and liquidation. Problems of rescue and resistance. Selected readings from the literature of the Holocaust.

Cross-Listed as: LEH HCU 343/HIE 343. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 344 - American Jewish History (3)

Survey of American Jewish history from colonial times until the present: migrations, socioeconomic changes, and cultural developments. Special emphasis on the history of American Jewry since 1880. Jewish socialism, Zionism in America, Jewish reactions to anti-Semitism, and Judaic religious life.

Cross-Listed as: LEH HCU 344/HIU 344. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 350 - Topics in Judaic Studies (3)

Selected topics in Judaic culture.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 363 - Introduction to Jewish Philosophy (3)

Survey of the evolution of Jewish thought, with emphasis on representative figures of the Middle Ages, including Judah Halevi and Maimonides and Joseph Albo, and with attention to such leading modern thinkers as M. Buber and F. Rosenzweig. The relation between Jewish and general thought will be examined.

Cross-Listed as: LEH HCU 363/PHI 363. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 481 - Honors Project (3)

Individual study and independent research in Jewish history, culture, or thought, in consultation with an HCU/HEB faculty member.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HCU 485 - Yiddish Independent Studies (3)

Individual study and independent research in Yiddish under the direction of a faculty member.

Cross-Listed as: LEH HCU 485/YDH 485. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEA - Health

HEA 136 - Family and Community Health (2)

Study of the relationship of the home and community in developing optimal health.

Cross-Listed as: LEH HEA 136/WST 136. Requirement Designation: Regular Non-Liberal Arts.

HEA 167 - School and Community Health (3)

Health services, healthful school environment, and health instruction as school and community responsibilities. Relationship between school and community health programs.

Requirement Designation: Regular Non-Liberal Arts.

HEA 211 - Perspectives on AIDS (3)

Examination of HIV/AIDS in the United States and the world, including biomedical aspects of HIV/AIDS, history of the epidemic, epidemiology, prevention, treatment, and policy issues.

Requirement Designation: Regular Non-Liberal Arts.

HEA 249 - Foundations of Health (3)

Critical appraisal of present practices in health. Analysis of historical and philosophical developments as they relate to health services and education.

Requirement Designation: Regular Non-Liberal Arts.

HEA 265 - Contemporary Health Problems (3)

Scientific study of healthful living. Emphasis on identification and analysis of contemporary health issues and problems and review of related research.

Requirement Designation: Regular Non-Liberal Arts.

HEA 266 - Research Techniques in Health Education (3)

Basic concepts of research and evaluation applied to school and community health. Exploration of the tools of measurement and methods of analyzing and interpreting data.

Requirement Designation: Regular Non-Liberal Arts.

HEA 267 - Human Behavior and Health (3)

Psychological, social, and cultural determinants of health behavior, implications for educators in school and community settings, and conditions and phenomena that affect acceptance of health information.

Requirement Designation: Regular Non-Liberal Arts.

HEA 300 - Introduction to Public Health (3)

Science of community health. Prevention and control of disease, vital statistics, and current health problems.

Requirement Designation: Regular Liberal Arts.

HEA 301 - Environmental Health (3)

Description and analysis of causative agents of the major pollutants and their effects on man and society.

Prerequisite: Two courses in the natural sciences.

Requirement Designation: Regular Liberal Arts.

HEA 302 - Women and Health (3)

Physiological, psychological, political, and social determinants of the health and health care of women.

Prerequisite: Two courses in the behavioral sciences. Cross-Listed as: LEH HEA 302/WST 303. Requirement Designation: Regular Non-Liberal Arts.

HEA 303 - Safety Education, Accident Prevention, and First Aid (2)

Principles of safe living; theory and practice of first aid procedures. Upon satisfactory completion of this course, students have the option to apply for the fee-based American Red Cross First Aid Certificate or the American Heart Association Heartsaver Certificate.

Requirement Designation: Regular Non-Liberal Arts.

HEA 304 - CPR/AED Basic Life Support (1)

Instruction in the principles and skills of recognizing cardiac arrest and administering emergency care through CPR/AED. Upon satisfactory completion of this course, students have the option to apply for the fee-based American Red Cross Adult and Pediatric CPR/AED Certificate or the American Heart Association Heartsaver Certificate.

Requirement Designation: Regular Non-Liberal Arts.

HEA 305 - Health Appraisal (3)

Techniques of health appraisal, recording, and interpreting health data, referral, and follow-up procedures, with emphasis on health counseling and peer group consultation.

Prerequisite: Two courses in the behavioral sciences.

Requirement Designation: Regular Non-Liberal Arts.

HEA 307 - Human Sexuality (3)

Physiological, psychological, and social aspects of human sexual development and function.

Prerequisite: Either one course in each of the biological and behavioral sciences or Departmental permission. Cross-Listed as: LEH HEA 307/WST 307. Requirement Designation: Regular Liberal Arts.

HEA 308 - Parenting and Child Health (3)

The development of the child as a growing personality; factors influencing physical, emotional, and social development. Care of the premature baby; infant and maternal mortality; habit formation; parenting skills and training; signs of health, disease, and abuse; boarding out of children; adoption; day care and nursery school.

Prerequisite: HEA 307 or WST 307 or Departmental permission. Cross-Listed as: LEH HEA 308/WST 308. Requirement Designation: Regular Non-Liberal Arts.

HEA 309 - Alcohol, Tobacco, and Other Drugs (3)

The use and abuse of alcohol, tobacco, and drugs. Emphasis on the physiological, psychological, and social effects.

Requirement Designation: Regular Non-Liberal Arts.

HEA 310 - Health and Aging (3)

The middle and later years of life. Physiological, psychological, and social aspects of the aging process. Examination of agencies and programs established to meet the health needs of the aged.

Prerequisite: Two courses in the behavioral sciences.

Requirement Designation: Regular Non-Liberal Arts.

HEA 320 - Health Counseling (3)

Overview of the counseling process, including theoretical approaches, and strategies and techniques for health behavior change. Applications to such health problems as obesity, drug and alcohol use, smoking, STDs, HIV disease, and heart disease.

Prerequisite: Either HEA 267, HEA 300, or Departmental permission. Requirement Designation: Regular Non-Liberal Arts.

HEA 336 - Perspectives on Death and Dying (3)

Study of death, dying, and bereavement from psychological, social, and cultural perspectives. Topics including end of life care, the effects of different types of death on the grief process, children and bereavement, and grief counseling. Implications for health services delivery.

Requirement Designation: Regular Non-Liberal Arts.

HEA 348 - Latino Health (3)

An interdisciplinary perspective on the health of Latinos in the United States. Topics include health disparities, immigrant paradox, chronic disease, and current research on protective factors.

Requirement Designation: Regular Liberal Arts.

HEA 360 - Selected Topics in Health (3)

(maximum 6 credits). Consideration of recent developments in the field of health.

Prerequisite: Satisfactory completion of 60 college credits.

Requirement Designation: Regular Non-Liberal Arts.

HEA 400 - Program Planning and Evaluation (3)

Identification and analysis of the processes of planning and evaluating health education and promotion programs.

Examination of programs in schools, community health agencies, clinical facilities, and worksite/industrial settings.

Prerequisite: HEA 267; HEA 249; HEA 300 or HEA 320; one additional 300-level HEA course; departmental permission.

For students majoring in Public Health: HEA 267; HSD 306; PHE 304 or HEA 300; departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall.

HEA 437 - Strategies in Community Health and Nutrition Education (3)

Assessment of health and nutritional needs within a multicultural context. Identification, selection, and implementation of strategies for dissemination of health and nutrition information into the community, focusing on individuals with special needs.

Prerequisite: HEA 267; HEA 249; two 300-level HEA courses. HEA Option II majors may take DFN 437 instead of HEA 437. Requirement Designation: Regular Non-Liberal Arts.

HEA 440 - Seminar in Community Health (2)

A study of the factors involved in the development, organization, administration, and supervision of health education programs within the various types of community health agencies.

Prerequisite: HEA 400 and HEA 437. Corequisite: HEA 470. Requirement Designation: Regular Non-Liberal Arts. Offered: Spring.

HEA 470 - Internship in Community Health I (4)

Supervised placement and on-the-job community health training in public, private, or voluntary agency setting.

Prerequisite: HEA 400; HEA 437; Departmental permission. Corequisite: HEA 440. Requirement Designation: Regular Non-Liberal Arts. Offered: Spring.

HEA 485 - Honors (3)

(maximum 6 credits). Individual study, under faculty guidance, leading to completion of an honors essay.

Prerequisite: Departmental permission. Requirement Designation: Regular Non-Liberal Arts.

HEA 493 - Special Projects (1-4)

One semester, 1-4 credits (maximum of four credits).

Individual projects or research of a selected topic under the direction of a faculty member.

Prerequisite: PREREQ: Departmental permission.

HEB - Hebrew**HEB 101 - Elementary Hebrew I (4)**

Fundamentals of pronunciation, reading, and grammar.

Practice of conversation and reading of simple texts.

Prerequisite: Department Consent Required

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 102 - Elementary Hebrew II (5)

Continuation of the work in HEB 101.

Prerequisite: HEB 101 or Departmental Placement.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 111 - Elementary Hebrew I (3)

(For beginners.) Fundamentals of pronunciation, reading, and grammar. Practice in conversation and reading of simple texts.

Prerequisite: Department Consent Required.

Requirement Designation: College Option. Offered: Fall-Spring.

HEB 112 - Elementary Hebrew II (3)

Continuation of the work in HEB 111.

Prerequisite: HEB 111. Requirement Designation: College Option. Offered: Fall-Spring.

HEB 202 - Advanced Hebrew (3)

Sections from ancient, medieval, and modern texts; intensive review of grammar; and practice in oral and written composition.

Prerequisite: Either HEB 102, three years of high school Hebrew, or equivalent. Cross-Listed as: LEH HEB 202/MES 202. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 215 - Biblical Literature: Pentateuch (3)

Study of the Pentateuch, with a Hebrew commentary.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 216 - Biblical Literature: Historical Books (3)

Selections from the books of Joshua, Judges, Samuel, and Kings.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 217 - The Modern Hebrew Short Story (3)

Readings from writers such as Mendelev, Peretz, Frishman, J. Steinberg, and Y.D. Berkowitz.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 281 - Intermediate Hebrew Tutorial (3)

Individual readings in prose and poetry, grammar review, oral practice, and written composition under faculty direction.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 285 - Individualized Intermediate Foreign Language Study (1)

Independent study in Hebrew generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 300 - Hebrew Conversation I (2)

Intensive practice in the spoken language. Conversation based on readings in current periodicals and newspapers.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 301 - Hebrew Conversation II (2)

Continuation of HEB 300.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 317 - Biblical Literature: Prophetic Books (3)

Selections from minor and major prophets.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 318 - Biblical Literature: Hagio-Grapha (3)

Selections from Job, Proverbs, and Psalms.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 321 - Talmudic Literature (3)

Selections from Mishnah, Gemara, and Midrash.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 322 - Medieval Literature (3)

Selections from the literature of the golden Age in Spain, with emphasis on the poetry of Judah Halevi and Solomon Ibn Gabirol.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 323 - Poetry of the Modern Hebrew Renaissance Period (3)

The poems of Bialik, Tchernichowsky, Kahan, Shneour, and Shimoni.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 324 - The Modern Hebrew Essay (3)

Study of selected essays of Ahad Ha'am, Berditchevsky, and Frishman.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 325 - History of Modern Hebrew Literature (3)

The evolution of Hebrew literature from Moses Mendelssohn to the present, embracing the periods of enlightenment, romanticism, realism, the national renaissance, and contemporary Hebrew literature.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 327 - The Modern Hebrew Novel (3)

Intensive study of a major novel of Agnon, Barash, Burla, or Hazaz, with collateral readings in other Hebrew novels.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 328 - Contemporary Hebrew Prose (3)

Study of the prose of modern Israel, with emphasis on the works of Y. Shenhar, S. Uozjar. A. Meged, M. Shamir, and N. Shaham.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 331 - Medieval Hebrew Philosophic Texts (3)

Study of selected chapters of Judah Halevi's Kuzari and Maimonides Moreh Nebukim ("Guide to the Perplexed"), with emphasis on the philosophical problems in their historical settings.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 341 - Hebrew Grammar and Composition (3)

Individual study and independent research on Hebrew literature, in consultation with a Hebrew-teaching faculty member.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 381 - Tutorial in Hebrew (3)

Individual study in advanced Hebrew under faculty direction.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 385 - Individualized Advanced Foreign Language Study (1)

Independent study in Hebrew generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 389 - Seminar (2)

(maximum 4 credits).

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HEB 481 - Honors Project (3)

Individual study and independent research on Hebrew literature, in consultation with a Hebrew-teaching faculty member.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIA - History of Ancient and Medieval Civilization

HIA 302 - Biblical History and Archaeology (3)

Study of biblical history in the light of archaeological research. Readings from ancient Hebrew sources in translation in relation to major archaeological discoveries in Israel and the Near East.

Cross-Listed as: LEH HCU 302/HIA 302. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIA 304 - Ancient Jewish History (3)

Survey of the development of the Jewish people, including the origin of the Hebrews, the experience at Sinai, the United and Divided Kingdoms, the Babylonian exile, the Second Commonwealth, Jewish law and thought, and contacts with the Greeks and Romans.

Cross-Listed as: LEH HCU 304/HIA 304. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIA 306 - History of Religions in the Ancient World (3)

A survey of religious beliefs and practices of the Ancient Near Eastern and Mediterranean worlds. Religious customs of the ancient Mesopotamian cultures; Mycenaean, Minoan and Classical Greek myth and ritual; Hellenistic religions and mystery religious cults; private household worship in the Roman Republic; and public religious faith in the Roman Empire.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIA 311 - Women in Antiquity (3)

Examination of the image, role and status of women in both Ancient Greek and Roman society as seen from the important literary works of antiquity.

Cross-Listed as: LEH ACU 311/HIA 311. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIA 314 - Classical Myth and Society (3)

A comparison of the origins and development of classical mythology and heroic legend as religious beliefs, their relation to other mythologies, and their adaptation in literature and art from Hesiod and Homer through the present. A comparative analysis of Near Eastern and Nordic myth will be provided. Not open to students who have taken ACU 266.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIA 316 - Greek Archaeology of the Classical Period (3)

Study of major Greek sites of the fourth and fifth centuries B.C., including the topographies of Athens, Sparta, Corinth, and Thebes. The influence of Greece on surrounding civilizations, such as Persia's, will be investigated, and the effects of the cultural and political life of the period on urban development will be stressed.

Cross-Listed as: LEH ACU 316/HIA 316. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIA 318 - Roman Archaeology and Topography (3)

Study of the major pre-Roman sites of Italy, including the cities of Etruria. The development of the city of Rome during the Republican period, and the investigation of sites such as Pompeii and Herculaneum. The spread of Romano-Hellenistic urban civilization throughout the Mediterranean region during the Empire. A detailed study of the topography of Imperial Rome.

Cross-Listed as: LEH ACU 318/HIA 318. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIA 320 - Greek History (3)

The beginnings of European civilization; its gradual unfolding and culmination in Greece.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIA 321 - History of Rome (3)

Foundation and development of the Roman state, including the rise and decline of the Roman Republic and the establishment and fall of the Empire, with emphasis on its political, economic, social, and cultural achievements.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIA 325 - The Early Christians (3)

Life and thought of the Christian community from its founding to the end of the 5th century. Study of the advent of Jesus in the Graeco-Roman world; the formation of primitive churches; the rise of Christian liturgy and theology; the relations with Judaism, Oriental religions, and the Roman state; missionary advance; the great persecutions; the conversion of Constantine; the maturation of Christian thought; and the emerging division of East and West.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIA 330 - The Jews During the Middle Ages (3)

Study of the expansion of the Diaspora during the Dark Ages; Babylonian Jewry, its institutions, and history; Jews in Moslem Spain; the emergence of Franco-German Jewry; and Jewish life in medieval Christian Europe.

Cross-Listed as: LEH HCU 330/HIA 330. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIA 331 - Life and Society in the Middle Ages (3)

The shaping of the European way of life, from 800 to 1450 A.D.: war and peace, work and play, trade and travel, town and country, religious practices, love and sex, clothing and housing, and diet and health care.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIA 333 - A History of Jews in Spain and the Sephardic Dispersion (3)

The Jewish community in Visigothic, Muslim, and Christian Spain; the social, economic, and religious life of the Jews, with emphasis on the Muslim-Jewish symbiosis in the arts and sciences during the "Golden Age." the decline of Jewish life in Spain, the disputations, the Inquisition, Marrano problems, and expulsion. The Sephardic Diaspora in the Mediterranean world will be studied in some detail.

Cross-Listed as: LEH HCU 333/HIA 333. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIA 336 - England in the Middle Ages (3)

Roman Britain, Anglo-Saxon society, law, and government; the Norman Conquest and the rise of the feudal kingdom; the common law, Magna Carta, and medieval parliaments; the Black Death, the Peasants' Revolt, and the Wycliffe heresy; the Hundred Years' War with France, and the Wars of the Roses.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIA 348 - Introduction to the History of Science, from Ancient Science to the Scientific Revolution (3)

The course focuses on the essential problems science has faced in theory, religion, and philosophy, providing a background to the understanding of science and its historical development. It studies the character of science in ancient Egypt and Babylonia; the content, methodology, and philosophy of science during the age of Plato and Aristotle; the emergence and decline of Islamic science; the contributions of the medieval period; the roots of the scientific revolution of the Renaissance; the significance of the work of Copernicus, Kepler, Galileo, Vesalius, and Harvey; and the methods and values of science that emerged from an age of witchcraft, magic, and alchemy before the time of Isaac Newton.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIA 350 - Topics in Ancient and Medieval History (3)

(maximum 6 credits.) Various sections on specific topics in ancient and medieval history. (For specific topics and sections offered each semester, consult the Department.)

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIA 381 - Individual Tutorial Project in Ancient and Medieval History (3)

(May be repeated for a total of 6 credits.) Individual reading and writing on a specific topic in ancient and medieval history, under faculty direction.

Prerequisite: Satisfactory completion of 60 college credits, including one 300- or 400-level History course, unless exempted, and instructor's permission prior to registration.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIA 450 - Seminar in Ancient and Medieval History (3)

Reading, writing, and discussion on selected topics in ancient and medieval history.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE - History of Modern European**HIE 301 - Introduction to the History of Science, from Descartes and Newton to Darwin and Einstein (3)**

The course examines the nature and significance of scientific thinking in general through the study of the work of Descartes, Leibnitz, and Newton; the conflict between science and religion in the seventeenth century; materialism's penetration of biology from physics; the revolution in chemistry associated with Priestly and Lavoisier; the interface between science and the industrial revolution; the work of the

French biologist Claude Bernard, illustrating the development of biology and experimental medicine; the starting work of Charles Darwin; twentieth-century topics such as field and atomic theory, relativity, and quantum theory; and their important philosophical implications.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 302 - Europe in the Renaissance and Reformation (3)

Major developments in Western Europe in the fifteenth and sixteenth centuries, including Renaissance humanism, the rise of the printed book, reformations of religion, overseas exploration and empire.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 304 - Society and Culture in Renaissance Italy (3)

The history of Italy (ca. 1350-1550) from the origins of the Renaissance in Florence to its decline following the sack of Rome in 1527; the dissemination of Renaissance culture throughout Europe and beyond.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 305 - Golden-Age Spain (3)

The rise and fall of Spain as an imperial power from the Middle Ages to 1700. Topics include the Reconquest, Columbus and the "Columbian Exchange," the Armada, the Inquisition, and Golden-Age painting, theater, and literature.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 307 - Europe in the Age of Enlightenment (3)

Society, politics, and economy in Europe from 1689 through the Napoleonic Wars. Europe in the Age of Enlightenment

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 308 - The French Revolution and Napoleon (3)

Preconditions of discontent in late 18th century France, the origin and unfolding of the French Revolution, the Thermidorean Reaction, the rise of Napoleon and his influence in Europe.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 309 - Europe, 1815-1914 (3)

Political, economic, social and intellectual ideas and developments from the Congress of Vienna to World War I.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 310 - History of European Diplomacy (3)

Survey of European diplomacy, with special emphasis on nineteenth- and twentieth-century developments.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 312 - Fashion and History (3)

The relationship between fashion and history from the fourteenth century to the present—beginning with the “fashion revolution” of the Middle Ages and concluding with current debates over sustainability in the fashion industry.

Requirement Designation: Regular Liberal Arts.

HIE 314 - Europe in the Twentieth Century: Imperialism, Revolution, Fascism, and Total War (3)

World War I, the rise and fall of Communism in Russia and Eastern Europe, fascism, World War II, postwar prosperity, European union, and the impact of immigration.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 316 - The History of Ideas and Ideologies in Nineteenth-Century Europe (3)

The social and intellectual formation of liberalism, conservatism, nationalism, socialism, and anarchism, and their impact on political and social change in modern Europe.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 317 - The History of Ideas and Ideologies in Twentieth-Century Europe (3)

The social movements and ideas that have shaped our modern consciousness, including communism, fascism, existentialism, feminism, revolution, and total war.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 321 - Tudor-Stuart England (3)

The advent of the Tudor dynasty; Henry VIII, the divorce, and the church; Queen Elizabeth's government and the church, and Elizabethan society; poverty and vagrancy in the tudor state; the divine right of kings and mass political attitudes in early Stuart England; the origins of the civil war; the execution of Charles I; Oliver Cromwell on the saints; restoration England; and the Glorious Revolution.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 322 - Britain in the Age of Industrialization and Empire (3)

Modern Britain in the eighteenth and nineteenth centuries. The impact of the industrial revolution on British society, the American Revolution, democratization, depression,

imperialism, and the new liberalism, and the Irish question in English politics, the breakdown of Victorian standards and behavior.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 323 - Britain in the Twentieth Century (3)

World War I and its effect on politics and society, the economic crisis of 1931 and the National Government, Churchill and the war effort, the Labour Party, nationalization and the welfare state after 1945, decolonization, economy and society under Thatcher, the rise of new Labour.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 325 - Italy from Napoleon through Mussolini (3)

The impact of the Napoleonic Wars on the Italian peninsula. The struggle to create a united Italy free from foreign domination. Political and economic crises in late 19th century Italy and the massive emigration of Italians to the United States. The struggle between Left and Right in liberal Italy and the impact of World War I. The rise of Fascism and Mussolini. Italy in World War II and contemporary Italy.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 330 - History of Modern France (3)

French politics, society, economy and culture from the fall of Napoleon to the crisis of 1968. The revolutions of the nineteenth century, colonial policy and decolonization, World Wars and recovery after 1950.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 333 - Modern Ireland (3)

The political, economic, social and cultural history of Ireland from the late 18th century to the present.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 335 - History of Spain (3)

The rise of Spain to world dominance; its decline and the search for political, economic, and social stability in the modern period.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 336 - Early Russian History (3)

Origins of Russian history, Kievan, Muscovite, and early Imperial Russia to 1855.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 337 - Modern Russian History (3)

Russia from 1855 to the present, including the late Imperial and Soviet eras.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 341 - Germany from Bismarck through Hitler (3)

Study of Germany from Bismarck and the unification through Hitler, the Nazi regime, and the Second World War, with a brief survey of postwar developments.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 343 - The Holocaust (3)

Study of the destruction of the Jews of Europe during World War II. Political anti-Semitism in modern Europe; the rise of Hitler and Nazism. The interwar period in Europe and the spread of anti-Semitism. World War II, ghetto, deportation, and liquidation. Problems of rescue and resistance. Selected readings from the literature of the Holocaust.

Cross-Listed as: LEH HCU 343/HIE 343. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 345 - Hitler, the Nazis, Fascism, and Neo-Fascism (3)

Mussolini, Hitler, and European Fascism through the Second World War. Neo-Nazi and Neo-Fascist movements in the contemporary world.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 348 - Europe and the Non-Western World in the 19th and 20th Centuries (3)

European imperialism and colonialism in Africa and Asia. The growth of nationalism, decolonization, revolution, independence, and globalization.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 350 - Topics in Modern European History (3)

(maximum 6 credits). Various sections on topics in modern European history. (For specific topics and sections each semester, consult the Department.)

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIE 381 - Individual Tutorial Project in Modern European History (3)

(May be repeated for a total of 6 credits.) Individual reading and writing on a specific topic in modern European history, under faculty direction.

Prerequisite: Satisfactory completion of 60 college credits, including one 300- or 400-level History course, unless exempted, and instructor's permission prior to registration.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIN - Nursing

HIN 268 - Growth and Development (3)

Physical, cognitive, social, and emotional development from conception to adulthood. Consideration of contributions of major developmental theorists.

Prerequisite: 30 College Credits. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIN 269 - Analysis and Action for Community Health (3)

Health needs of families in the context of their communities. Introduction to epidemiological method and the principles of epidemiological investigation as tools for analyzing health needs. Issues of prevention, environmental health, special risk families, planned change, the concept of health teams and the roles of health workers in the community are addressed.

Prerequisite: 30 College Credits. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS - History

HIS 212 - History of Puerto Rico (3)

Survey of the history of Puerto Rico.

Cross-Listed as: LEH LTS 212 / HIS 212. Requirement Designation: Flexible Core - World Cultures & Global Issues.

HIS 225 - History of the Dominican Republic (3)

Dominican history from pre-history and pre-Colombian times to the Trujillo era. Examination of different socioeconomic trends in the formation of Dominican society, as well as the prominent role played by foreign powers.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 2370 - Pirates: A Global History of Law and Commerce (3)

History of commerce and piracy from the fourteenth century to the present. Topics include Portuguese entry into the Indian Ocean; sea raiders of southeast Asia; pirates and the economy of East Asia; pirates and privateers of the Atlantic and Caribbean; piracy and empire; piracy and the rise of international law; and twenty-first century pirates.

Offered: Fall-Spring.

HIS 239 - The Ascent of Man: An Introduction to the History of Science (3)

Exploration of the events and people who have contributed to the technological and scientific progress of civilization from ancient times to the present. Weekly writing assignments,

formal essays, and Internet research explore the role of science and technology in world history.

Requirement Designation: Flexible Core - Scientific World. Offered: Fall-Spring.

HIS 240 - East Asian Civilization (3)

The literature, art, religions, and changing social life of people in China, Japan, and Korea. Emphasis on both the changing nature of popular culture and the relationship between long-term historical trends and life today.

Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

HIS 241 - Early Modern Europe, 1400-1815 (3)

The making of modern Europe from the Renaissance to the fall of Napoleon.

Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

HIS 242 - Contemporary European History (3)

Major themes in European history from the nineteenth century to the present.

Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

HIS 243 - Foundations of the United States (3)

Major themes in American history from the end of colonization to the Civil War.

Cross-Listed as: LEH HIS 243/HIS 273. Requirement Designation: Flexible Core - US Experience in its Diversity. Offered: Fall-Spring.

HIS 244 - Modern United States History (3)

Major themes in U.S. history from the era of the Civil War and Reconstruction to the present.

Cross-Listed as: LEH HIS 274/HIS 244. Requirement Designation: Flexible Core - US Experience in its Diversity. Offered: Fall-Spring.

HIS 245 - History of African Americans (3)

A study of the major forces shaping the history and culture of African Americans.

Requirement Designation: Flexible Core - US Experience in its Diversity. Offered: Fall-Spring.

HIS 246 - Civilizations of the Ancient World (3)

A survey of the Mediterranean world, beginning with the first humans and tracing the development of civilization from Mesopotamia and Egypt to ancient Greek City-States and the fall of Rome.

Cross-Listed as: LEH HIS 275/HIS 246. Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

HIS 247 - Medieval Civilization (3)

Western Europe from the fall of Rome through the Protestant Reformation.

Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

HIS 248 - African History (3)

Introduction to the history of Africa.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 249 - Islamic Civilization (3)

The formation and diffusion of Islamic civilization during the medieval and early modern period in Anatolia, the Balkans, Africa, and South Asia.

Cross-Listed as: LEH HIS 249/MES 249. Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

HIS 250 - Understanding History (3)

(May be repeated once with change of topic and Departmental approval.) An introduction to the investigation and the interpretation of the past. Strongly recommended for beginning students. Historical subjects vary each semester. (Consult the "Schedule of Classes" for specific topics and sections.)

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 266 - Introduction to Latin America and the Caribbean I (3)

Survey of the peoples and civilizations of Pre-Columbian America and of the institutions, economy, history, and culture of Latin America and the Caribbean from the European conquest to the early nineteenth century (1492-1808).

Cross-Listed as: LEH HIS 266/LAC 266. Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

HIS 267 - Introduction to Latin America and the Caribbean II (3)

Survey of the nations and cultures, history, economy, and politics of Latin America and the Caribbean from the early nineteenth century to the present.

Cross-Listed as: LEH HIS 267/LAC 267. Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

HIS 268 - History of Mexico (3)

Major themes in Mexican history: development of pre-Columbian civilizations; environmental and demographic impact of the Conquest; Spanish colonial period; wars of independence of the 19th century; nation building, the

Mexican Revolution, dictatorship, and one-party democracy; and the political, cultural and economic relationship between Mexico and the United States.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 273 - The Foundation of the United States (3)

The major themes in American history from the era of colonization to the Civil War.

Cross-Listed as: LEH HIS 273/HIS 243. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 274 - Modern United States History (3)

The major themes in U.S. history from the era of the Civil War and Reconstruction to the present.

Cross-Listed as: LEH HIS 274/HIS 244. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 275 - Ancient Civilization (3)

The Mediterranean world from prehistoric times to the fall of Rome.

Cross-Listed as: LEH HIS 275/HIS 246. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 276 - Medieval Civilization (3)

Western Europe from the fall of Rome through the Protestant Reformation.

Cross-Listed as: LEH HIS 276/HIS 247. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 281 - Introductory Tutorial in History (3)

(May not be repeated.) A course offering the beginning student with special interests and aptitudes in history the opportunity to do individual reading and writing under the direction of a faculty member of the Department of History.

Prerequisite: Faculty member's permission prior to registration. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 301 - Introduction to the History of Biology (3)

Aristotle, Galen, medical advances in the Islamic East and Latin West; Renaissance innovations in technique, experimental method, and theory; and Harvey; microscopy; mechanism in biology from Descartes to LaMettrie; the vitalist-reductionist debate over the nature and origins of life; cell theory; Darwin, evolution; Mendel, genetics; T.H. Morgan and the emergence of the Phage Group; Lysenko and biology in the Soviet Union; and the discovery of DNA.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 302 - Science and Society (3)

Social aspects of the growth of modern science from the 17th century to the present. Religion and science in Galileo's Italy, science and technology during the industrial revolution, scientific institutions during the French Enlightenment Darwin and Social Darwinism, eugenics and racial hygiene, ?big science,? and the human genome project.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 304 - History of Science in the Twentieth Century (3)

A multidisciplinary survey of scientific and technological developments in the twentieth century, emphasizing the ethical issues and new social implications arising from them. Topics may include recent work in microbiology, DNA, and genetic "engineering"; technological innovations in synthetic materials, chemical warfare, and consumer concerns; theories of relativity, quantum physics, atomic weapons, and nuclear energy; anthropological discoveries and human evolution; Freudian psychology and psychoanalysis; man in space; medical science and portents for the future of civilization. There are no prerequisites for this course; students need have no previous background in the sciences.

HIS 307 - The Course of Modern Jewish History (3)

Survey of the Jewish people in the Western world during the past 300 years; their struggle for political and social equality, their search for new homes, and new forms of life. The new Jewish centers, Messianic hopes, and the struggle for emancipation; the Enlightenment movement; religious, national, and social trends; migration of Jews to America; World Wars I and II; and the emergence of the State of Israel.

Cross-Listed as: LEH HCU 307/HIS 307. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 315 - The Literature of History (3)

Selected works of historical representation and interpretation from antiquity to the modern era.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 321 - Contemporary History: The Crises of Our Time (3)

Since World War II, Western Civilization has generated a series of crises: the population explosion, the irreversible depletion of fossil energy resources, the revolution of rising expectations, the threat of nuclear holocaust. All of these challenge the economic, political, ideological, and moral foundations of our civilization. The origin and nature of these crises will be examined, and attempts will be made to examine the prospects for Western man and his civilization.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 327 - World Revolutions (3)

The nature, causes, and results of revolutionary change, including the French, the American, the Haitian, the Russian, and the Chinese revolutions, and the depiction of revolutionary change in art, theater, and literature.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 328 - The Military History of World War I (3)

Study of the First World War, emphasizing military issues while also considering political, social, cultural, and economic questions. Topics include: new technologies; the role of centralized governments; pre-war strategizing; global conflict; use of land, sea, and air; and the interrelationship of World Wars I and II.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 329 - The Military History of World War II (3)

Study of the Second World War, emphasizing military issues while also considering political, social, cultural, and economic questions. Topics include: new technologies of mass destruction; the deployment of tanks, aircraft, radar, submarines, and aircraft carriers; the use of weapons to destroy nations' civil morale and industry; the impact of total war on the Home Front; and the interrelationship of World War II and the Cold War.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 334 - The Irish Diaspora (3)

A survey of the circumstances and consequences of Irish immigration from the eighteenth century to the present, including the patterns of settlement and assimilation of Irish immigrants in the West Indies, the United States, Canada, England, Scotland, Wales, Australia, New Zealand, and South Africa.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 342 - Anti-Semitism from Early Christianity to Hitler (3)

The origins of conflict between Christianity and Judaism, and the fate of the Jews in Medieval Europe. The gradual liberation and assimilation of the Jews of the Western Europe, 1789-1870. The rise of modern racism and anti-Semitism in Europe, 1889-1939. Hitler, the Nazis, and the destruction of European Jewry during World War II. Anti-Semitism in the contemporary world. Social-psychological and cultural theories of anti-Semitism will be considered.

Cross-Listed as: LEH HCU 342/HIS 342. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 350 - Topics in Comparative History (3)

(maximum 6 credits). Various sections on topics in comparative history. (For specific topics and sections each semester, consult the Department.)

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 351 - Topics in African History, Politics, and Society (3)

Selected aspects of African history, politics, and society.

Cross-Listed as: LEH HIS 351/AAS 351/HIW 351.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 353 - Topics in Caribbean History, Politics, and Society (3)

Selected aspects of Caribbean history, politics, and society. Topics to be announced each semester.

Cross-Listed as: LEH AAS 353/HIW 353. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 381 - Individual Tutorial Project in Comparative History (3)

(May be repeated for a total of 6 credits.) Individual reading and writing on a specific topic in comparative history, under faculty direction.

Prerequisite: Satisfactory completion of 60 college credits, including one 300-level history course, unless exempted, and instructor's permission prior to registration. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 450 - Seminar in Comparative History (3)

(maximum 6 credits). Reading, writing, and discussion on selected topics in comparative history.

Prerequisite: Either satisfactory completion of 12 credits in History and a History major or instructor's permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIS 481 - Advanced Tutorial Project in Comparative History (3)

Advanced individual reading and research paper on a specific topic in comparative history, under faculty direction.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU - History of the United States**HIU 301 - Colonial British America, 1586-1763 (3)**

The British colonies in North America from the "lost" English settlement at Roanoke to the treaty ending the French and Indian War. The collision of Europeans and Native Americans, conflicts between the European colonial powers,

the establishment of slavery in North America, and political, social, and religious development.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 304 - The Era of the American Revolution, 1763-1789 (3)

American development from the mid-eighteenth century through the framing of the Constitution, with emphasis upon the American Revolution, the interrelation of Europe and American affairs, and the growth of American institutions and ideals.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 305 - The Early Republic, 1789-1824 (3)

The founding and development of a republican form of government: the evolution of political parties, the economic growth of the nation and its impact on politics, and the transition from a republic to a democracy engendered by economic growth and the search for political power.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 308 - Democracy, Sectionalism and Slavery in the U.S., 1825-1861 (3)

The age of the "common man" in politics, increasing sectional tensions and the prominence of the slavery issue in American life. Abolitionism, Workingmen's agitation, women's rights, westward expansion, states' rights, the defense of slavery and the coming of the Civil War.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 309 - The Civil War and Reconstruction, 1861-1877 (3)

Key events of the Civil War and its aftermath, including emancipation and the status and role of newly freed Black Americans.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 310 - The Gilded Age and the Progressive Era, 1877-1914 (3)

Industrialization and the rise of the corporation, the importance of the transcontinental railroads, immigration, urbanization, black disenfranchisement, "Jim Crow" and the emergence of the "New South," Populism, the integration of the Far West, Progressivism and "trust busting".

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 311 - Black Nationalism (3)

Analysis of the social, political, and cultural ideology and practices of Black Nationalist movements.

Cross-Listed as: LEH BLS 314/AAS 311. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 314 - The United States from World War I through World War II, 1914-1945 (3)

Domestic and foreign affairs, including two World Wars, the "Roaring Twenties," the Great Depression, and Franklin Roosevelt and the New Deal.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 315 - Recent United States History, 1945 to the Present (3)

Domestic and foreign affairs since the end of World War II. The Cold War and anti-Communism at home and abroad, and changes in American social, economic, and political values and institutions.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 316 - The American Constitution in Historical Perspective (3)

The American constitutional system from the American Revolution to the present. The evolution of legal structures, the growth of rights and remedies, the changing content of justice, organization of government, the balance of freedom and order.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 317 - History of American Foreign Relations, 1750-1912 (3)

A history of American foreign relations from colonial times to the early twentieth century, with the emphasis on the diplomacy of the American Revolution; foreign affairs and the Constitution; the War of 1812; the Monroe Doctrine; expansion, sectionalism, and the coming of the Civil War; and America's emergence as a world power.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 318 - History of American Foreign Relations, 1912-Present (3)

American foreign relations from the early 20th century to the present. The US role in World Wars I and II, the Cold War; and the growth of presidential power in foreign affairs.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 319 - The United States and the Vietnam War (3)

The reasons why the United States became involved in the Vietnam War, the methods employed, and the consequences of U.S. involvement.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 320 - Early American Cultural and Intellectual History (3)

The major ideas, institutions and individuals in American cultural and intellectual life from the mid-17th through the late 19th centuries. Puritanism; the Enlightenment in America, republicanism and romanticism, and the professionalization of letters and learning.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 322 - Modern American Cultural and Intellectual History (3)

Major trends in American cultural and intellectual life from late-19th century to the present. The commercialization of culture, the secularization of the public sphere, the development of research universities, and the role of intellectuals as cultural critics.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 323 - Protest in America (3)

Discussion of nineteenth- and twentieth-century movements for substantive social change in America, emphasizing race and gender.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 324 - The History of Italian-Americans (3)

The social, economic and cultural history of Italian-Americans from the age of exploration and colonization to the present, with special emphasis upon the history of the transformation from Italian to Italian-American and upon the historical development and relationships between Italian-Americans and other ethnic groups in the United States.

Cross-Listed as: LEH HIU 324/IAS 303. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 328 - The Family in American History (3)

Historical study of the family in America, including its European roots, its relationship to the frontier, to slavery, to immigration, and to current development in industrialism, urbanization, and technology.

Cross-Listed as: LEH HIU 328/WST 328. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 329 - History of Sexuality and Sex Roles in America (3)

The history of sexual roles as they have developed and changed in America from colonial times to the present.

Cross-Listed as: LEH HIU 329/WST 329. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 330 - The Civil Rights Movement (3)

Study of the modern Civil Rights movement.

Cross-Listed as: LEH AAS 330 / HIU 330. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 331 - History of Women in America (3)

Historical study of women's conditions, statuses, and roles in American society from colonial times to the present.

Cross-Listed as: LEH HIU 331/WST 331. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 332 - History of Health Care in the United States (3)

Examination of health care in America from colonial times to the present. Topics include the development of the medical profession, the rise of the health movement, the growth of hospitals, and popular attitudes toward health and disease.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 333 - American Urban History (3)

The formation, growth, and transformation of American cities from the wilderness village to the megalopolis. Emphasis on the changing political and economic roles of cities, patterns of social stratification, power, and mobility; and trends in recent urban social and cultural life.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 335 - Immigration in America (3)

The motives and aspirations of immigrants, their contributions to and effects upon American social structure, and the tensions between assimilation and ethnicity.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 336 - American Religious History (3)

Religious belief and behaviors of Americans from the seventeenth century to the present. Encounters among European, African, and indigenous religions; Christianization, evangelicalism, and revivalism; church and state relations; and religiously based movements for social reform.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 340 - History of African American Women (3)

The social, political, and cultural history of African American women in the United States from an interdisciplinary perspective.

Cross-Listed as: LEH AAS 340/HIU 340/WST 340.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 341 - American Business History (3)

The rise of business enterprise in America from its earliest commercial origins to giant corporations and conglomerates. Themes include the rise of early commerce, emergence of consolidated industry, prominent businessmen and business techniques, analysis of business philosophy and entrepreneurial attitudes, reactions to corporate power by labor and government, evolution of business forms and structures, and the impact of business enterprise on political, legal, and cultural development.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 342 - History of American Labor (3)

The American worker from colonial times to the present, with emphasis on the period since the Civil War. Themes include the origins and character of the American labor movement, the effect of industrialization upon the worker, slavery, and wage labor, the growth and development of the major American labor unions, the impact of social reformers and radicals upon the labor movement and the American worker, public employees and collective bargaining, the changing attitudes of the American worker.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 344 - American Jewish History (3)

Survey of American Jewish history from colonial times until the present: migrations, socioeconomic changes, and cultural developments. Special emphasis on the history of American Jewry since 1880. Jewish socialism, Zionism in America, Jewish reactions to anti-Semitism, and Judaic religious life.

Cross-Listed as: LEH HCU 344/HIU 344. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 345 - American Economic History (3)

(Closed to those who have completed ECO 321.) Studies in American economic development from the agricultural and commercial economy of the Colonies to contemporary U.S. preeminence as an industrial nation. Attention will be given to the economic institutions and policy with regard to political and social developments.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 346 - History of the American Presidency (3)

America's presidents and how the presidency has developed from George Washington to the present.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 347 - The Mainland Borough: The Bronx as a City in History (3)

The urban history of the Bronx from the seventeenth century to the present. Major emphasis on 1874-1945, the period of the borough's most rapid growth, and experience with modern urban problems. Topics include ethnic immigration and mobility, the effects of mass transit development, Prohibition, and the ways various external events, such as wars and depressions, have influenced the borough and its people.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 348 - History of New York: City and State (3)

Examination of the interaction between the urban center and the state from their respective origins as New Amsterdam and New Netherland to the twentieth century. Special emphasis is placed on the socioeconomic reasons for the cosmopolitan nature of the metropolis and its uniqueness as a major urban entity.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 349 - The Harlem Renaissance (3)

Examination of poetry, prose, folklore, history, politics, art, and music of the Harlem Renaissance.

Cross-Listed as: LEH BLS 349/AAS 349. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 350 - Topics in American History (3)

(maximum 6 credits.) Various sections on topics in American history. (For specific topics and sections each semester, consult the Department.)

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 352 - Topics in African American History and Culture (3)

Selected aspects of African American history and culture. Topics to be announced each semester.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIU 354 - Black Panther Women and Gender Politics (3)

Analysis of the history, political development, praxis, platform, and decline of the Black Panther Party for Self-Defense from 1966 to 1982.

Cross-Listed as: LEH AAS 354/WST 354/HIU 354.

Requirement Designation: Regular Liberal Arts.

HIU 381 - Individual Tutorial Project in American History (3)

(May be repeated for a total of 6 credits.) Individual reading and writing on a specific topic in American History, under faculty direction.

Prerequisite: Satisfactory completion of 60 college credits, including one 300-level History course, unless exempted, and instructor's permission prior to registration. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW - Asian, African, and Latin-American History

HIW 300 - Social and Economic History of Puerto Rico from the Industrial Revolution to the Present (3)

Intensive survey of the socioeconomic formations of Puerto Rico from the Industrial Revolution to the present.

Prerequisite: Departmental permission for History majors. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 301 - Ottoman History (3)

Political, socio-economic, and cultural history of the Ottoman Empire from its fourteenth-century beginnings to its demise at the end of World War I.

Cross-Listed as: LEH MES 301/HIW 301. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 302 - Modern Middle Eastern History (3)

Societies and politics of the Middle East in the nineteenth and twentieth centuries. The Islamic and Ottoman legacies, reforms and reforming elites, changing roles of religion, nationalist ideologies, Great Power intervention, regional politics, and the Arab-Israeli conflict.

Cross-Listed as: LEH MES 302/HIW 302. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 303 - Contemporary Islamic Movements (3)

Contemporary movements of Islamic resurgence and activism in the Middle East, North Africa, Central and South Asia, and beyond.

Cross-Listed as: LEH MES 303/HIW 303. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 304 - History of Women and Society in the Islamic Middle East (3)

Women in the Middle East from the advent of Islam to the present. Legal and cultural constructions and social dynamics of marriage, sexual morality, women's access to property, participation in production, and use of space.

Cross-Listed as: LEH HIW 304/WST 304/MES 304.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 305 - The Arab-Israeli Conflict (3)

The Arab-Israeli conflict from the late nineteenth century to the present; political, military, diplomatic, economic, cultural, and psychological dimensions.

Cross-Listed as: LEH HIW 305/MES 305. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 308 - The Jews of Tsarist and Soviet Russia (3)

Russian Jewry from the nineteenth century until the present, with special emphasis on Jewish life in Russia since 1917; Tsarist oppression and ideological developments; World War I and the era of revolutions; interwar consolidation and socioeconomic construction; World War II and the Nazi occupation; the Stalin era; and de-Stalinization and recent developments in Soviet Jewry.

Cross-Listed as: LEH HCU 308/HIW 308. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 313 - Religion in Hispaniola: From Catholicism to African Religions (3)

Socio-cultural significance and history of religions in the Dominican Republic and the Republic of Haiti.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

HIW 315 - Comparative History of the Hispanic Caribbean (3)

Comparative history of Cuba, the Dominican Republic, and Puerto Rico in the nineteenth and twentieth centuries.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 316 - East Asia in the Modern World (3)

The modernization of China and Japan in response to the intrusion from the West and to the erosion of traditional patterns of civilization. Covers the period from 1800 on.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 317 - History of Modern China (3)

Chinese history from 1800 to present, concentrating on transformations of the Chinese economy, relations with the rest of the world, and changing views of reform and revolution in the modern era.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 322 - History of Chinese Civilization (3)

Chinese civilization from ancient times to the present; emphasis on major patterns in government and society, culture, and the arts. Includes readings in poetry and fiction.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 323 - History of Africa to 1800 (3)

Events and forces shaping African history before 1800.

Cross-Listed as: LEH AAS 323/HIW 323. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 324 - History of Cuba (3)

History of Cuba, from colonial times to the present. Focus on Cuban independence and United States intervention; race, gender, and construction of the nation; the path toward a socialist revolution; efforts at reform; and Cuba's role in Latin America and the world.

Cross-Listed as: LEH LAC 324/HIW 324. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 325 - The History of Modern Japan (3)

The gradual emergence of a distinctive Japanese civilization within the East Asian family of nations; the modernization of Japan during the last century.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 327 - History of Africa 1800 to the Present (3)

Events and forces shaping the history of Africa after 1800.

Cross-Listed as: LEH AAS 327/HIW 327. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 330 - Latin America in the Nineteenth Century (3)

Changes and continuities in Latin America over the course of the "long nineteenth century," from political independence in the 1820s to the rise of nationalist challenges to liberalism in the 1930s.

Cross-Listed as: LEH HIW 330/LAC 330. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 331 - Modern Latin America (3)

The nations of Latin America from the beginning of the twentieth century to the present, with a focus on political reform and revolution, economic development, and social movements.

Cross-Listed as: LEH HIW 331/LAC 331. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 337 - Latin America and the United States from 1823 to the Present (3)

Relations between the United States and Latin American countries since their creation as independent republics.

Cross-Listed as: LEH HIW 337/LAC 337. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 338 - Colonial Latin America (3)

Examination of the development of colonial societies in Latin America from the "encounter" of the 16th century to the crisis of the Iberian empires in the late-eighteenth century.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 340 - Slavery in Latin America and the Caribbean (3)

Comparative examination of slavery in Latin America and the Caribbean. Emphasis on the Portuguese (Brazil) and Spanish (Cuba) systems, with reference to the British, North American, and French systems.

Cross-Listed as: LEH HIW 340/LAC 340. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 345 - History of South America (3)

Pre-Columbian and colonial foundations of the nation-state and the construction of modern nations in South America in the post-independence period.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 350 - Topics in Non-Western History (3)

(maximum 6 credits). Various sections on topics in non-Western history. (For specific topics and sections each semester, consult the Department.)

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 351 - Topics in African History, Politics, and Society (3)

Selected aspects of African history, politics, and society. Topics to be announced each semester.

Cross-Listed as: LEH HIS 351/AAS 351/HIW 351.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 352 - The Mexican Revolution (3)

Examination of the Mexican Revolution of 1910, including nineteenth-century preconditions, overthrow of the old regime, the civil war phase, and postrevolutionary reconstruction of modern Mexico.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 353 - Topics in Caribbean History, Politics, and Society (3)

Selected aspects of Caribbean history, politics, and society. Topics to be announced each semester.

Cross-Listed as: LEH AAS 353/HIW 353. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HIW 354 - Global Connections: Conflict and Interdependence from 1500 to the Present (3)

Survey of the emergence and development of an interconnected world, with historical perspectives on how differing groups have benefited or lost from globalization, how people and societies have balanced global connectedness with local needs, and how primary sources can reveal conflicted attitudes about these changes.

Prerequisite: 200-level history course.

HIW 381 - Individual Tutorial Project in Non-Western History (3)

(May be repeated for a total of 6 credits.) Individual reading and writing on a specific topic in non-Western history, under faculty direction.

Prerequisite: Satisfactory completion of 60 college credits, including one 300-level History course, unless exempted, and instructor's permission prior to registration. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HPI - Health Professions Institute

HPI 101 - US Healthcare: Careers in a Unique System (3)

Study of practice and interprofessional relationships of various healthcare professions, such as clinical (MD, DO, PA, TR, PharmD), nursing (LPN, RN, BSN, NP), rehabilitation (PT, OT, Speech), other (lab tech, social work) non-clinical (public health, health administration, health education) and Vet/tech. Impact of historical and current trends such as health care reform and reimbursements on the various healthcare professions.

Requirement Designation: Regular Liberal Arts.

HRP - Human Rights and Peace Studies

HRP 218 - Fundamentals of Human Rights and Peace (3)

Basic concepts and perspectives in the study of peace and human rights. The history and development of theoretical and practical approaches to human security. Topics may include terrorism, war and nonviolence, conflict resolution, genocide, class-, gender-, and race-based violence, notions of justice, and universal rights versus local cultural practices.

Cross-Listed as: LEH PHI 218 / POL 218 / HRP 218.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HRP 3500 - Anthropology and Human Rights (3)

History, development, and application of concepts and theories of anthropology to current issues in human rights. Examination of cross-cultural research on "What are rights?"

Cultural relativism, the right to cultural difference, and the quest for universal human rights. Anthropological contributions to human rights theory and the dilemmas of practice in a globalized world.

Cross-Listed as: LEH ANT 3500 / HRP 3500. Offered: Fall-Spring.

HRP 3520 - Special Topics in Human Rights and Peace Studies (3)

Various topics in human rights and security protections.

Cross-Listed as: LEH ANT 3520 / POL 3520 / HRP 3520. Requirement Designation: Regular Liberal Arts.

HRP 4730 - Internship in Human Rights and Peace Studies ((Minimum of 8 field hours/week and one hour weekly meeting with a faculty member), 1 semester, 3 credits.)

A supervised internship enabling students to acquire professional experience in areas related to Human Rights or Peace Studies.

Prerequisite: Permission from the CfHRPS Executive Director. Cross-Listed as: LEH ANT 4730 / POL 4730 / HRP 4730. Requirement Designation: Regular Liberal Arts.

HSA - Health Services Administration

HSA 250 - ICD-9-CM Coding I (2)

Introduction to the ICD-9-CM medical records coding system, focusing on the coding of uncomplicated diseases and surgical procedures within hospitals and other inpatient health service organization.

Prerequisite: Prerequisites: BIO 181 or BIO 183, HSD 200, and CIS 106. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

HSA 251 - ICD-9-CM Coding II (2)

Continuation of HSA 250, covering advanced areas of medical records coding. Emphasis on sequencing of multiple diagnoses and procedures to assure correct reimbursement. Review of data collection systems used by hospitals and other inpatient health services organizations.

Prerequisite: HSA 250. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

HSA 252 - Coding for Ambulatory Care (2)

Coding of medical procedures performed in outpatient settings, including physicians' offices, ambulatory surgery centers, and hospital outpatient departments. Overview of the requirements for reporting professional services for the government and for insurance companies and other third-party payers.

Prerequisite: Prerequisites: BIO 181 or BIO 183, HSD 200, and CIS 106. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

HSA 267 - Management of Health Organizations (3)

Fundamental concepts of management theory. Examination of the structure of health organizations and administrative processes such as planning, problem solving and decision making, and quality and productivity improvement. Emphasis on the major issues and problem areas confronting health administrators.

Cross-Listed as: LEH BBA 267 / HSA 267. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

HSA 301 - Human Resources Management and Labor Relations in Health Services (3)

Analysis of the challenges and conflicts inherent in managing human resources in health services organizations.

Examination of policy formulation, recruitment, selection, training and development, wage and salary administration, motivation, and labor relations.

Cross-Listed as: LEH HSA 301 / BBA 301. Requirement Designation: Regular Non-Liberal Arts.

HSA 302 - Computer Applications in Health Services Administration (3)

An introduction to the use of the computer by health care administrators. An overview of software programs useful for administrative tasks, including medical information management, medical records processing, budget preparation, and report writing.

Prerequisite: Prerequisites: 267, HSD 269, and CIS 106. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

HSA 303 - Operations Analysis of the Health Delivery System (3)

Study of decision-making in health systems. Focus on the dimensions, components, constraints and varied responses of problem solving in the health care system.

Prerequisite: Prerequisites: HSA 267, HSA 268, ECO 166 or ECO 167. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

HSA 304 - Financial Aspects of Health Care Administration (3)

Examination of the major issues related to the financing of health services, including budgeting, cost containment, reimbursement policies, and financial strategies. Overview of the major trends affecting financial management of health institutions.

Prerequisite: Prerequisites: HSA 267/BBA 267; HSA 268 or HSA 312/BBA 312; ACC 171 or ACC 185. Cross-Listed as:

LEH BBA 306 / HSA 304. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

HSA 312 - Managed Health Care (3)

Comprehensive overview of basic concepts of managed health care, including types of managed care organizations, use of data and reports in utilization and quality management, Medicaid and Medicare managed care, and other critical issues.

Prerequisite: Prerequisites: HSD 266 and HSA 267/BBA 267. Cross-Listed as: LEH BBA 312 / HSA 312. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HSA 320 - Long-Term Care Administration (3)

An examination of the structure and operations of long term care organizations and institutions, focusing on issues affecting the management, financing, and implementation of long term care. Topics covered include policies and regulations related to the administration of long-term care facilities; human resources management in long-term care; marketing long term care; and the multidisciplinary team approach in the delivery of services to the elderly, mentally ill, chronically ill, and disabled.

Prerequisite: HSA 267. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

HSA 325 - Nursing Home Administration (3)

Management of nursing homes, covering the six Domains of Practice established by the American College of Health Care Administrators: organizational management of nursing homes, resident care, personnel, financial, environmental and regulatory management.

Prerequisite: HSA 267 or permission of faculty member. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

HSA 350 - Contemporary Health Issues (3)

(maximum 6 credits.) Recent topics of interest pertinent to the management and delivery of health care. Emphasis will be given to administrative, political, legislative, and legal dimensions of current health issues.

Prerequisite: Prerequisites: HSD 266 and HSA 267. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

HSA 385 - Independent Study in Health Services Administration (2-3)

One semester, 2-3 credits (maximum 6 credits). Individual study and research of a selected topic, under direction of a faculty member.

Prerequisite: Departmental permission. Offered: Fall-Spring.

HSA 401 - Quality Improvement in Health Services Organizations (3)

Evolution of quality problem solving approaches from Quality Assurance to Total Quality Management/Continuous Quality Improvement to Six Sigma. Examines key Quality Improvement concepts and the analytical tools used to identify and solve critical quality problems. Addresses the development and use of NCQA/HEDIS and other pertinent quality measures.

Prerequisite: Prerequisites: HSD 266, HSA 267, and HSA 312. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

HSA 402 - Research and Program Evaluation in Health Services Administration (3)

Analysis of research techniques and their applications in health care administration. Principles of research design and program evaluation. Emphasis on student involvement in empirical research and evaluation.

Prerequisite: Prerequisites: HSD 269, HSD 306, and a minimum of 9 credits in HSD or HSA courses. Cross-Listed as: LEH BBA 402 / HSA 402. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

HSA 403 - Strategic Management: Health Planning in a Competitive Environment (3)

Examination of the issues and techniques relevant to the planning of health delivery systems, with emphasis on marketing approaches in a competitive health care environment.

Prerequisite: A minimum of 18 credits in HSD or HSA courses. Cross-Listed as: LEH BBA 404 / HSA 403. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

HSA 469 - Health Services Administration Pre-Internship Seminar (3)

Weekly seminar focused on the development of specific, role-related technical and professional skills necessary for effective health administration careers. The course will also prepare students for the HSA 470 internship including internship site selection, application preparation, interviewing skills, and other professional issues such as advocating for diversity in the workplace and evolving public health initiatives.

Prerequisite: Departmental Permission Requirement Designation: Regular Non-Liberal Arts.

HSA 470 - Health Services Administration Internship (3)

Onsite administrative practice with a preceptor, focusing on the development and application of specific, role-related technical and professional skills necessary for effective health care services management.

Prerequisite: HSA 469 Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

HSA 471 - Health Services Administration Internship (3)

Onsite administrative practice with a preceptor, focusing on the development and application of specific, role-related technical and professional skills necessary for effective health care services management.

Prerequisite: HSA 470 Requirement Designation: Regular Non-Liberal Arts.

HSA 490 - Honors in Health Services Administration (3)

Independent research or project under faculty guidance. Written report required.

Prerequisite: Departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

HSD - Health Sciences Core Courses

HSD 200 - Applied Medical and Health Care Terminology (3)

Concepts and vocabulary of health, disease, disability, causation, prevention, diagnosis, treatment, and classification.

Prerequisite: Completion of 30 college credits. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

HSD 240 - Nutrition and Health (3)

Fundamental principles of normal nutrition with an emphasis on health maintenance and disease prevention. Discussion of nutritional concerns through the life cycle and nutrition programs in health services.

Prerequisite: No credit will be given for DFN 140 if it is taken after HSD 240. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

HSD 266 - The U.S. Health Care Delivery System (3)

Examination of the major issues in the organization and delivery of health and nutrition services. An overview of health care institutions, financing, management, and human resources.

Requirement Designation: Flexible Core - U.S. Experience in Its Diversity. Offered: Fall-Spring.

HSD 269 - Fundamentals of Biostatistics for Health Professionals (3)

An introduction to biostatistics as used in health research. Emphasis on the application and interpretation of statistics in the context of health services, health education, and nutrition studies.

Prerequisite: MAT 132 or its equivalent, or demonstrated competence in database manipulation, spreadsheet calculations, and word processing. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

HSD 306 - Epidemiology (3)

Basic principles and methods in epidemiology and their use in prevention and control of health problems in populations at risk. Impact of community health activities on individual and community responses to health and nutrition problems. Epidemiological approaches to health and nutritional care and their relationship to multicultural community health activities.

Prerequisite: HSD 266 and HSD 269. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HSD 308 - Legal Issues in Health Care (3)

An examination of the legal issues related to providers and consumers of health services. Application of legal doctrines to health care settings. Some topics include: negligence liability, malpractice, risk management, abortion, and other contemporary legal issues.

Cross-Listed as: LEH BBA 302 / HSD 308. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

HSD 416 - Mental Health in America: Issues and Services (3)

Current mental health issues and their relevance to health promotion and the management and delivery of health care services. Examination of mental health care services within the public and private sectors; identification of emerging service needs, particularly within a multicultural context.

Prerequisite: PSY 166 and a minimum of 12 credits in the major field. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HUM - Humanities

HUM 135 - Introduction to the Performing Arts (3)

Appreciation of the performing arts by attending theatre, music, dance, and opera at Lehman Center for the Performing Arts, as well as lectures, demonstrations, and a weekly two-hour seminar devoted to research of art forms and backgrounds, evaluation of performances, and development of critical standards that will lead to life enrichment through continuing enjoyment of the performing arts.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HUM 150 - The City and the Humanities I (1)

A series of lectures, films, and live performances of music, theatre, and dance, designed to introduce students to the role of the arts in an urban setting. The lectures present a chronological study of the city and the humanities from classical Athens to New York City today.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HUM 155 - The City and the Humanities II (3)

(May be repeated for a total of 6 credits.) A city and its culture as seen through literature, theatre, music, history, art, and architecture. An interdepartmental team-taught course. Intended primarily for students who have completed fewer than 60 credits.

Prerequisite: HUM 150 Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HUM 211 - The Humanities: An Introduction (3)

The study of a small number of important works of literature, philosophy, and the arts that have contributed to the development of civilization.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HUM 235 - Opera as Literature (3)

Analysis of the different components of opera and the relationship between literary themes and their operatic versions.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HUM 250 - The City and the Theatre (3)

Drama as theatre and as a mirror of the city from the Greeks to the present. Readings of classical, Renaissance, and modern plays in the context of the history of the development of Western theatre, with special emphasis on critical vocabulary and dramatic techniques. Students will attend live performances at Lehman as well as at Broadway and Off-Broadway theatres.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HUM 255 - Foundations in the City and the Humanities (3)

(May be repeated for a total of 6 credits.) An intensive study of selected subjects in the humanities and performing arts that will draw on the cultural resources of New York City, including the arts complex on Lehman's campus.

Prerequisite: HUM 150. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HUM 355 - Selected Topics in The City and the Humanities (3)

(May be repeated for a total of 6 credits.) Selected topics in the city and the humanities.

Prerequisite: Permission of the instructor. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HUM 356 - Interdisciplinary Topics in The City and the Humanities (5 or 6 credits. May be repeated for a total of 12 credits.)

Interdisciplinary Topics in The City and the Humanities.

Prerequisite: Permission of the instructor. Offered: Fall-Spring.

HUM 450 - Selected Problems in the Humanities (3)

(maximum 6 credits). Selected problems in the humanities.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HUM 470 - Humanities Internship (5)

Supervised work in both public agencies and private businesses that requires the skills derived from the fine and liberal arts. The program offers students practical experience in a wide range of business and non-profit sector careers to which a humanities and liberal arts education may lead. It may be repeated once under special circumstances and with approval of the Internships Screening and Evaluation Committee.

Prerequisite: Satisfactory completion of 75 college credits and approval of the Internships Screening and Evaluation Committee. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

HUM 481 - Advanced Individual Tutorial Project in the City and the Humanities (3)

(May be repeated for a total of 6 credits.) Advanced research culminating in a research paper or in a visual or performing arts project in The City and the Humanities Program, under faculty direction.

Prerequisite: Satisfactory completion of a 300-level course in The City and the Humanities or permission of the Program Director. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IAS - Italian American Studies**IAS 245 - Italy Today (3)**

A panoramic view of contemporary Italy and an analysis of her role in industry, fashion, folklore, film making, and theatre as seen through leading journals and other sources.

Cross-Listed as: LEH IAS 245/ITA 245. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IAS 250 - The Italian-American Community (3)

The immigration to America from the 1880s to the present, and the emergence of the Italian-American community, with particular emphasis on the social structure of the community and its changing cultural values.

Cross-Listed as: LEH ANT 250/IAS 250/SOC 250.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IAS 303 - The History of Italian-Americans (3)

The social, economic and cultural history of Italian-Americans from the age of exploration and colonization to the present, with special emphasis upon the history of the transformation from Italian to Italian-American and upon the historical development and relationships between Italian-Americans and other ethnic groups in the United States.

Cross-Listed as: LEH HIU 324/IAS 303.

IAS 304 - The Italian-American Community (3)

The immigration to America from the 1880s to the present, and the emergence of the Italian-American community, with particular emphasis on the social structure of the community and its changing cultural values.

Cross-Listed as: LEH ANT 250/IAS 250. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IAS 450 - Topics in Italian-American Studies (3)

(May be extended or repeated for an additional 3 credits with permission from the Director.) Special topics to be arranged between student and instructor.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IAS 481 - Tutorial in Italian-American Studies (3)

IAS 495 - Special Project in Italian-American Studies (3)

(May be extended or repeated for an additional 3 credits with permission from the Director.) Selection of, and research into, a significant problem in the Italian-American community. Field research will be required. Readings on topics to be arranged between student and instructor. Note: No more than a total of 6 credits may come from IAS 481 and 495.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IBA - Individual BA Program

IBA 135 - Learning About Learning: Returning Adult Student Seminar (3)

The nature of a liberal arts education, information literacy, critical thinking, and other skills needed for success at Lehman College.

Requirement Designation: Regular Liberal Arts.

IBA 155 - Colloquium (3)

Colloquium

Prerequisite: Department Consent Required Requirement
Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

IBA 156 - Colloquium (3)

Colloquium

Prerequisite: Department Consent Required Requirement
Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

IBA 157 - Colloquium (3)

Colloquium

Prerequisite: Department Consent Required Requirement
Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

IBA 158 - Colloquium (3)

Colloquium

Prerequisite: Department Consent Required Requirement
Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

IBA 159 - Colloquium (3)

Colloquium

Prerequisite: Department Consent Required Requirement
Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

IBA 161 - Colloquium (3)

Colloquium

Prerequisite: Department Consent Required Requirement
Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

IBA 162 - Colloquium (3)

Colloquium

Prerequisite: Department Consent Required Requirement
Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

IBA 163 - Colloquium (3)

Colloquium

Prerequisite: Department Consent Required Requirement
Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

IBA 164 - Colloquium (3)

Colloquium

Prerequisite: Department Consent Required Requirement
Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

IBA 250 - Interdisciplinary Studies of People and Culture (3 (may be repeated for credit with a different topic))

Introduction to peoples and cultures and factors that influence them across a broad range of domains.

Requirement Designation: Regular Liberal Arts.

IBA 251 - Interdisciplinary Studies of Global and Local Issues (3 (may be repeated for credit with a different topic))

Introduction to diverse issues that shape people's lives on both global and local levels.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IBA 252 - Interdisciplinary Studies in Power, Politics and Change (3 (may be repeated for credit with a different topic))

Introduction to theories and dynamics relating to power structures, political movements and change processes.

Requirement Designation: Regular Liberal Arts.

IBA 253 - Interdisciplinary Studies in Artistic and Literary Expression (3 (may be repeated for credit with a different topic))

Introduction to various forms of artistic and literary expression.

Requirement Designation: Regular Liberal Arts.

IBA 254 - Interdisciplinary Studies in Science Literacy (3 (may be repeated for credit with a different topic))

Introduction to issues related to science literacy.

Requirement Designation: Regular Liberal Arts.

IBA 301 - Liberal and Interdisciplinary Studies (3)

Reading, writing, and research methods for asking questions and finding answers across multiple academic disciplines.

Prerequisite: Completion of 24 credits. Requirement Designation: Regular Liberal Arts.

IBA 360 - Prior Learning Assessment: Portfolio Development (3)

An exploration of how to create a detailed autobiography that documents the knowledge, skills, and abilities gained outside the classroom which may be eligible for academic credit.

Requirement Designation: Regular Liberal Arts.

IBA 482 - Capstone Seminar (3)

Production of a capstone project that serves as a reflection and integration of learning in the Liberal and Interdisciplinary major.

Prerequisite: Department permission and completion of 27 credits in Liberal and Interdisciplinary Studies major.

Requirement Designation: Regular Liberal Arts.

IDW - World Classics

IDW 211 - Classics of the Western World: Ancient and Medieval (3)

A study of masterworks in ancient and medieval literature and legend that have exerted particular influence on the Western world.

Cross-Listed as: LEH CLT 211/IDW 211. Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

IDW 212 - Classics of the Western World II: Renaissance and Modern (3)

A study of masterworks in Western literature from the Renaissance to modern times.

Cross-Listed as: LEH CLT 212/IDW 212. Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

IDW 213 - Classics of the Asian World (3)

A study of masterworks in literature and thought of the Asian world, with emphasis on the traditions of India, China, and Japan.

Cross-Listed as: LEH CLT 213/IDW 213. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI - Irish

IRI 101 - Elementary Irish I (3)

(For students with no prior knowledge of Irish.)

Pronunciation and elements of Irish grammar, reading of simple texts, and oral practice.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 102 - Elementary Irish II (3)

Pronunciation and elements of Irish grammar, reading of simple texts, and oral practice.

Prerequisite: IRI 101. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 103 - Elementary Irish I (3)

Study of the pronunciation and elements of Irish grammar, reading of simple texts, and oral practice.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 104 - Elementary Irish II (3)

Study of the pronunciation and elements of Irish grammar, reading of simple texts, and oral practice.

Prerequisite: IRI 103 or Departmental Placement.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 105 - Elementary Irish III (3)

Study of the pronunciation and elements of Irish grammar, reading of simple texts, and oral practice.

Prerequisite: IRI 104 or Departmental Placement.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 106 - Elementary Irish IV (3)

Elements of Irish grammar and pronunciation; reading of simple texts; and oral practice.

Prerequisite: IRI 105 or Departmental Placement Requirement
Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 111 - Elementary Irish I (3)

(For students with no prior knowledge of Irish.) Study of the pronunciation and elements of Irish grammar, reading of simple texts, and oral practice.

Prerequisite: Department Consent Required. Requirement Designation: College Option. Offered: Fall-Spring.

IRI 112 - Elementary Irish II (3)

Study of the pronunciation and elements of Irish grammar, reading of simple texts, and oral practice.

Prerequisite: IRI 111. Requirement Designation: College Option. Offered: Fall-Spring.

IRI 1170 - Elementary Irish: Intensive Course (6)

Study of pronunciation and the elements of Irish grammar, reading of simple texts, and oral practice.

Prerequisite: Placement by the Department. Requirement Designation: Regular Liberal Arts.

IRI 201 - Intermediate Irish Grammar (3)

Grammar review, extensive reading, composition, and oral practice.

Prerequisite: IRI 105 or Departmental Placement.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 202 - Intermediate Irish Reading and Composition (3)

Grammar review, reading, composition, and practice conversation.

Prerequisite: IRI 201 or Department Permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 205 - Irish for Reading Knowledge (3)

Reading in various Irish texts, including newspapers, journals, correspondence, and contemporary literature, to enable students to read texts of average difficulty. Particularly suited to prospective graduate students planning to sit for a reading-comprehension exam in Irish. The course does not satisfy the foreign-language requirement for undergraduates.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 207 - Conversational Irish (3)

Designed to develop fluency in the conversational use of the Irish language. Topics from current events will serve as a basis for discussions and oral reports.

Prerequisite: IRI 105 with B or better or Department Permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 230 - Irish-Language Cinema (3)

Major Irish-language filmmakers and their themes, styles, and social significance through the viewing and discussion of selected major films (with English subtitles). Complementary readings of selected works of Irish-language literature (in English translation) that have influenced the aesthetics and evolution of Irish-language films.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 281 - Tutorial in Irish Language and Literature (3)

Individual research and reading on a specific topic under faculty supervision.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 285 - Individualized Intermediate Foreign Language Study (1)

Independent study in Irish generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 300 - Introduction to Literary Studies (3)

Literary genres and principles of literary analysis through readings of representative texts of Irish language literature.

Prerequisite: IRI 202 or Department Permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 303 - Advanced Grammar and Composition (3)

(Required of IRI majors.) Study of techniques of presentation and development of ideas. Emphasis on creative writing.

Prerequisite: IRI 202 or Departmental permission.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 305 - Advanced Conversation (3)

Intensive oral practice to increase and improve the fluency of students. Topics of conversation based on subjects of literature, civilization, and problems of interest to the Irish community.

Prerequisite: IRI 207 or Departmental Permission.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 3100 - Comparative Grammar (3)

Comparative analysis of English and Irish morphology, basic phonology, and syntax.

Prerequisite: IRI 201 or Departmental permission.

IRI 320 - Introduction to the Irish Short Story (3)

Survey of the short story genre in the Irish language, extensive reading, and composition.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 323 - Irish-Language Poetry of the Twentieth Century (3)

Readings of Louis de Paor, Nuala Ní Dhomhnaill, Joe Steve Ó Neachtain, and Biddy Jenkinson, among other poets. P

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 340 - The Contemporary Irish-Language Novel (3)

Irish-language fiction from the late nineteenth century to the present.

Prerequisite: Department Consent Required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 341 - Irish-Language Theatre (3)

Readings of Dubhghlas de hÍde, Máiréad Ní Ghráda, agus Antoine Ó Flatharta, among other dramatists.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 350 - Folklore in the Irish Language (3)

Oral and written accounts of folklore in Irish-speaking districts of Ireland. Analysis of materials collected by Douglas Hyde, the Gaelic League, the Irish Folklore Commission, and the Department of Education. Prerequisite: IRI 202.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 357 - Special Topics in Irish-Language Literature (3)

Irish-language literature of particular times, places, and themes, with attention to elements of style, rhetorical structures, and levels of discourse.

Prerequisite: IRI 202 or Departmental Permission.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 385 - Individualized Advanced Foreign Language Study (1)

Independent study in Irish generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

IRI 447 - Máirtín Ó Cadhain's Cré na Cille (3)

An in-depth study of the Irish-language masterpiece, *Cré na Cille*.

Prerequisite: Two 300-level IRI literature courses.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA - Italian

ITA 101 - Elementary Italian I (4)

Elements of grammar, reading of simple texts, and practice in speaking.

Prerequisite: Department Consent Required. Cross-Listed as: LEH IA 111/ITA 105/ITA 101. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 102 - Elementary Italian II (5)

Elements of grammar, reading of ordinary Italian prose, and training in oral and written expression.

Prerequisite: ITA 101 or Departmental Placement. Cross-Listed as: LEH ITA 112/ITA 108/ITA 106/ITA 102.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 105 - Elementary Italian I (3)

Study of pronunciation and the elements of Italian grammar, reading of simple texts, and oral practice.

Cross-Listed as: LEH ITA 105/ITA 101. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 106 - Elementary Italian II (3)

Study of pronunciation and the elements of Italian grammar, reading of simple modern texts, and oral practice.

Cross-Listed as: LEH ITA 112/ITA 108/ITA 106/ITA 102.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 108 - Elementary Italian III (3)

Study of pronunciation and the elements of Italian grammar, reading of simple modern texts, and oral practice.

Cross-Listed as: LEH ITA 102/ITA 106/ITA 108.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 111 - Elementary Italian I (3)

(For students with limited or no prior knowledge of Italian, as determined by Department placement procedures.) Elements of communication, grammar and culture. Reading of simple texts, and practice in speaking. Oral practice in the Language Laboratory. Course taught in Italian.

Prerequisite: Department permission required. Cross-Listed as: LEH ITA 111/ITA 105/ITA 101. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 112 - Elementary Italian II (3)

Elements of communication, grammar and culture. Development of oral and written expression and comprehension. Oral/aural practice in the Language Laboratory. Course taught in Italian.

Prerequisite: ITA 111 or Department placement exam. Cross-Listed as: LEH ITA 106/ITA 102. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 201 - Intermediate Italian Grammar (3)

Grammar review, extensive readings, composition, and oral practice.

Prerequisite: ITA 102 or ITA 108 or Departmental Placement. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 202 - Intermediate Italian Reading and Composition (3)

Grammar review, reading, composition, and practice conversation.

Prerequisite: ITA 201, or ITA 102 with B+ or better, or ITA 108 with B+ or better. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 205 - Italian for General Reading Purposes (3)

Extensive reading of varied Italian texts of graded difficulty. This concentrated one-semester course is for students outside the ITA major who wish to gain the first elements of a general reading knowledge of the language.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 207 - Conversational Italian (3)

Designed to develop fluency in the conversational use of Italian. Topics around current events to serve as a basis for discussion and oral reports.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 230 - Italian Cinema (3)

A study of major Italian film makers: their themes, styles, and social significance, through the showing and discussion of selected, outstanding films (with English subtitles). Complementary readings of selected works of Italian literature (in English translation) that have significantly influenced the aesthetics and the evolution of Italian films.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 231 - Dante's Divina Commedia in Translation (3)

The theme of man and his search for identity. Readings and discussion in English.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 232 - Boccaccio in Translation (3)

Elements of classicism, bawdiness, farce, and social behavior in Boccaccio and other short story writers of the Renaissance. Readings and discussion in English.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 233 - Italo-American Contributions (3)

Contributions of Italo-Americans in the fields of literature, art, music, theatre, etc. Readings and discussion in English.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 234 - Machiavelli in Translation (3)

Machiavelli and his influence on the literature of political dissent and nonconformity. Readings and discussion in English.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 236 - Pirandello in Translation (3)

Pirandello and his influence on the contemporary theatre. Readings and discussion in English.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 237 - Masterpieces of Italian Literature (3)

Great works of Italian literature, from Dante to the high Renaissance, with emphasis on their importance as a basis for other European literatures.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 245 - Italy Today (3)

A panoramic view of contemporary Italy and an analysis of her role in industry, fashion, folklore, film making, and theatre as seen through leading journals and other sources.

Cross-Listed as: LEH IAS 245/ITA 245. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 265 - Intermediate Studies in Italian (3)

Readings from contemporary sources and modern literature. Designed for students not specializing in Italian. Topics may vary from semester to semester.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 281 - Tutorial (3)

Language work as directed by a faculty member to meet the student's specific needs (aspects of Italian grammar, social work, health professions, etc.).

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 285 - Individualized Intermediate Foreign Language Study (1)

Independent study in Italian generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 300 - Introduction to Literary Studies (3)

This course will introduce students to literary genres and principles of literary analysis through readings of representative texts of Italian literature.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 303 - Advanced Grammar and Composition (3)

Study of techniques of presentation and development of ideas. Emphasis on creative writing on a variety of literary and contemporary themes.

Prerequisite: ITA 202. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 305 - Advanced Conversation (3)

Intensive oral practice to greatly increase and improve the fluency of students in the ITA Concentration. Topics of conversation based on subjects of literature, civilization, and problems of interest to the Italian community.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 307 - Advanced Translation (3)

Translation of contemporary standard English into Italian (and vice versa). Emphasis on problems and techniques of translation.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 308 - Theory and Practice of Italian Phonetics (3)

Descriptive study of the Italian sound system. Practice in phonetic perception, transcription, and articulation will include individual recordings and listening exercises.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 310 - Comparative Grammar (3)

Comparative analysis of English and Italian morphology, basic phonology, and syntax.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 314 - Italian Civilization I (3)

Study of the development of Italian institutions and cultural contributions to the fine arts, music, science, and philosophy up to the 17th century.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 315 - Italian Civilization II (3)

Study of the development of Italian institutions and cultural contributions to the fine arts, music, science, and philosophy from the 17th century to the present.

Prerequisite: ITA 201, or ITA 102 with B+ or better, or ITA 108 with B+ or better. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 3180 - Italian Dialectology and Sociolinguistics (3)

Major theoretical and practical foundations of sociolinguistic variation (dialectal, social, dialect/language contact) in primarily Italian-speaking communities and principal methods of sociolinguistic research and discourse analysis.

Implications for teaching Italian.

Prerequisite: ITA 202.

ITA 3190 - Italian Culture (3)

The interdisciplinary study of a variety of practices and products (film, popular festivals, literary texts, music, art) of the Italian-Speaking World.

Prerequisite: ITA 202.

ITA 320 - Italian Short Story from Its Origins to the Sixteenth Century (3)

The short story as a narrative form. Readings of texts from Boccaccio to Bandello.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 322 - Disguises and Revelations: The Italian Comedy as a Genre (3)

The origin and development of the Italian comedy as a genre. Readings of texts from Machiavelli's *Mandragola* to Goldoni's *La Locandiera*.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 326 - Main Romantic and Post-Romantic Italian Novelists (3)

Readings of texts from Manzoni's *I promessi sposi* to Verga's *I Malavoglia*.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 327 - Petrarca's Love Poetry (3)

This course will examine the Petrarchan sonnet and its influence in Europe.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 329 - Renaissance Prose Writers (3)

The study of Machiavelli, Guicciardini, and other representative prose writers.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 330 - Love as Escape in Renaissance Chivalric Poetry (3)

Readings from Ariosto's *Orlando furioso* and Tasso's *Gerusalemme liberata*.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 335 - Italian Poetry of the Nineteenth Century (3)

Study of the major Italian Romantic poets: Foscolo, Leopardi, and Manzoni.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 337 - Literature of the Seventeenth and Eighteenth Centuries, from the Baroque through the Enlightenment (3)

An overview of the main literary and philosophical trends of the seventeenth and eighteenth centuries.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 338 - In Search of One's Identity: The Modern Italian Novel (3)

A study of the modern Italian novel from 1900 to World War II, with readings from Svevo to Pirandello.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 340 - The Contemporary Italian Novel (3)

A study of Italian fiction from World War II to the present, based on readings and discussions of works from Vittorini to Eco.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 341 - The Contemporary Italian Theatre (3)

A study of major works from Pirandello and Betti through the experimental theatre of today.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 343 - Italian Poetry of the Twentieth Century (3)

The "Decadents" (D'Annunzio, etc.), the "Twilight Poets" (Gozzano, etc.), and Futurism and the "Hermetic School" (Ungaretti, Montale, Quasimodo, etc.).

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 357 - Special Topics in Italian Literature (3)

Study of selected topics dealing with language and literature, such as elements of style, rhetorical structure, levels of discourse.

Prerequisite: ITA 201, or ITA 102 with B+ or better, or ITA 108 with B+ or better. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 370 - Internship (3)

Supervised field placements in translation agencies, tutoring centers, and other environments needing foreign language expertise.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 381 - Tutorial (3)

Opportunity for a student to pursue individual research and reading on a specific topic under close faculty supervision.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 385 - Individualized Advanced Foreign Language Study (1)

Independent study in Italian generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 447 - Dante's Divina Commedia: Inferno (3)

An in-depth study of *Inferno*.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 448 - Dante's Divina Commedia: Purgatorio and Paradiso (3)

Study in depth of *Purgatorio* and *Paradiso*.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 450 - Advanced Seminar (3)

Historical study of major literary artists, trends, and movements through the centuries. Each student will concentrate on a particular theme or author. Individual conferences.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

ITA 481 - Honors Course in Italian (3)

Individual research under the direction of an Italian-teaching member of the department. The student reports in weekly conferences to the research adviser and presents such papers as may be prescribed.

Prerequisite: Department Consent Required Requirement
Designation: Regular Liberal Arts. Offered: Fall-Spring.

JAL - Japanese

JAL 101 - Elementary Japanese I (4)

Elements of grammar, reading simple texts, practice in speaking, and audiolingual work in the Language Laboratory.

Prerequisite: Department Consent Required Requirement
Designation: Regular Liberal Arts. Offered: Fall-Spring.

JAL 102 - Elementary Japanese II (5)

Elements of grammar, reading simple texts, practice in speaking, and audiolingual work in the Language Laboratory.

Prerequisite: JAL 101 or Departmental Placement.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

JAL 111 - Elementary Japanese I (3)

Elements of grammar, reading simple texts, practice in speaking, and audiolingual work in the Language Laboratory.

Prerequisite: Department permission required. Requirement Designation: College Option. Offered: Fall-Spring.

JAL 112 - Elementary Japanese II (3)

Elements of grammar, reading simple texts, practice in speaking, and audio-lingual work in the Language Laboratory.

Prerequisite: JAL 111. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

JAL 1170 - Elementary Japanese: Intensive Course (6)

Study of pronunciation and the elements of Japanese grammar, reading of simple texts, and oral practice.

Prerequisite: Placement by the Department. Requirement Designation: Regular Liberal Arts.

JAL 200 - Workshop in Japanese (1)

(May be repeated for a maximum of 2 credits). Practice in oral and written Japanese on the intermediate level.

Prerequisite: JAL 102 or permission of the instructor.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

JAL 201 - Intermediate Japanese I (3)

Development of vocabulary, and practice in speaking, reading, and writing; study of Kanji (Chinese characters).

Prerequisite: JAL 102 or Department Placement. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

JAL 202 - Intermediate Japanese II (3)

Emphasis on facilitating communication in speaking and writing; reading and further study of grammar and Kanji.

Prerequisite: JAL 201 or Departmental Placement.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

JAL 285 - Individualized Intermediate Foreign Language Study (1)

Independent study in Japanese generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

JAL 300 - Advanced Workshop in Japanese (2)

(May be repeated for a maximum of 4 credits). Practice in oral and written Japanese on an advanced level.

Prerequisite: JAL 202 or permission of the instructor.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

JAL 301 - Advanced Japanese I (3)

Review and extension of grammar and syntax through the discussion of magazine and newspaper articles. Study of the appropriate use of kana and kanji.

Prerequisite: Department Consent Required Requirement
Designation: Regular Liberal Arts. Offered: Fall-Spring.

JAL 302 - Advanced Japanese II (3)

Review and extension of grammar and syntax through the discussion of literary texts and contemporary articles. Continued study of the appropriate use of kana and kanji.

Prerequisite: JAL 301 or Departmental Placement.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

JAL 310 - Comparative Grammar (3)

Comparative analysis of English and Japanese morphology, basic phonology, and syntax.

Prerequisite: JAL 201 or Departmental Placement.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

JAL 350 - Topics in Japanese Literature (3)

Selected topics on Japanese literature.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

JAL 352 - Special Topics in Japanese Literature (3)

Study of various themes or aspects of Japanese literature.

Prerequisite: JAL 301 or Departmental Placement.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

JAL 381 - Tutorial (3)

Opportunity for a student to pursue individual research and reading on a specific topic under close faculty supervision.

Prerequisite: Departmental permission.

JAL 385 - Individualized Advanced Foreign Language Study (1)

Independent study in Japanese generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

JCU - Japanese Culture

JCU 211 - Japanese Literature and Culture (3)

Study in English translation of selected literature and dramatic works explored both as works of art and as manifestations of Japanese culture.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

JCU 212 - Classics of Japanese Literature (3)

Study in English translation of selected classics of Japanese literature representative of the major genres from the early to the modern period.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

JRN - Journalism

JRN 211 - Introduction to Multilingual Media (3)

Introduction to print and electronic multilingual media in the United States. Focus on the growth and diversity of ethnic media, the role they play in the lives of those who use them, and how they compare to mainstream media.

Requirement Designation: Flexible Core - US Experience in its Diversity. Offered: Fall-Spring.

JRN 217 - Journalism in the Movies (3)

Survey of journalism in films. Historical and contemporary aspects of news media as depicted in films about journalists.

Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

JRN 221 - Reporting I (3)

Fundamentals of news reporting and writing in a multimedia context. News-gathering and storytelling styles and approaches to writing for newspapers, magazines, radio, television, and the Internet. Emphasis on grammar, syntax, punctuation, and spelling.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

JRN 222 - New Media (3)

Evolution of new communication technologies. Introduction to blogging and other social networking tools used by journalists.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

JRN 223 - Journalism Ethics (3)

Basic legal protections and restrictions applied to media as well as First Amendment rights and ethical responsibilities. Topics include libel, invasion of privacy, newsgathering, and objectivity in reporting.

JRN 300 - The Bronx Journal Online Advanced Workshop (3)

Reporting and writing for Lehman's online multilingual news site, including hands-on reporting experience, proofreading, photography, and Web publishing, with an emphasis on writing and editing.

Prerequisite: JRN 221. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

JRN 302 - Covering Race, Gender, and Ethnicity (3)

Reporting and writing on minority and women's issues; covering minorities and women fairly as a beat reporter by providing balanced reporting; developing and writing stories that make mainstream news coverage more diverse and inclusive.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

JRN 307 - Multimedia Editing and Proofreading (3)

Reading multimedia copy and producing texts that are grammatically correct, following the rules of journalistic writing established by the Associated Press Stylebook. The art of writing headlines and editing copy for all media platforms, and production of copy that is written in meaningful and readable language, and that insures accuracy.

Prerequisite: JRN 221 or department permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

JRN 320 - Interviewing for Mainstream and Ethnic Media (3)

Theory and practice of preparing for, arranging, and conducting the journalistic interview for both mainstream and ethnic media.

JRN 321 - Reporting II (3)

Practical experience in multimedia storytelling through reporting and writing across platforms; covering a beat, checking government records, practicing police and court reporting, and in-depth feature writing, including human interest stories, profiles, and obituaries.

Prerequisite: JRN 221. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

JRN 322 - Online News Page Design and Editing (3)

Layout, usability, and navigational challenges of designing news websites and managing their huge amount of content. Review of the world's best news websites, and the latest methods and tools used to build them, from HTML and Photoshop to Dreamweaver, WordPress, and beyond.

Prerequisite: JRN 222. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

JRN 323 - Feature Writing (3)

Feature journalism in print and online, with an emphasis on reporting and writing entertainment, fashion, sports, arts, and business stories, including profiles, theme pieces, and reviews.

Prerequisite: JRN 221. Corequisite: JRN 321. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

JRN 350 - Topics in Journalism (3)

Topics vary from semester to semester, including comparison of ethnic and mainstream media, evolution of media, multiculturalism.

Prerequisite: JRN 211 and Department permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

JRN 356 - Digital Photojournalism (3)

Multimedia storytelling through images using concepts and techniques in digital photography, including shooting, editing, and displaying news photos.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

JRN 370 - Internship I (3)

Individual field experience with various media, public relations, publishing, advertising, and marketing firms. The course will include a one-hour weekly meeting with the program director and other internship students. A final report is required.

Prerequisite: Department permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

JRN 470 - Internship II (3)

Individual field experience with various media, coordinated by the Program Director. The course will include working 8 hours a week with a chosen media outlet, plus one-hour weekly seminar meetings with the Director and other internship students. A journal and a final research paper will be required.

Prerequisite: 18 credits from the program major and department permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

JRN 481 - Independent Project in Journalism (3)

Individual capstone project under the direction of a faculty member.

Prerequisite: Department permission.

JRN 486 - Independent Study in Journalism (3)

Independent study and/or research in journalism.

Prerequisite: Departmental Permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

JRN 491 - Honors Tutorial in Journalism (3)

The senior honors capstone project, consisting of individual research, reading, and writing supervised by a faculty mentor.

Prerequisite: 90 college credits, 3.5 GPA in the major, and departmental permission. Corequisite: JRN 492.

JRN 492 - Honors Colloquium in Journalism (1)

Weekly gathering of seniors doing independent honors capstone projects with a faculty mentor. Discussion of critical and creative ideas, modes of research, deadlines and progress, editing and revision.

Prerequisite: 90 college credits, 3.5 GPA, and department permission. Corequisite: JRN 491.

LAC - Latin American and The Caribbean

LAC 143 - Introduction to the History of Latin American Art (3)

A study of the principles of art applied to visual forms with emphasis on modern art of the nineteenth and twentieth centuries in Central America, South America, and the Caribbean.

Cross-Listed as: LEH ARH 143/LAC 143. Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

LAC 189 - Regional Geography of Selected Areas (3)

The geography of continents of major areas outside Anglo-American and Western Europe. Special emphasis on the basic principles of economic and cultural geography of regionalization as illustrated in the area under consideration.

Cross-Listed as: LEH GEH 189/LAC 189. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 210 - Women in Latin America (3)

The impact of social and cultural differences among women on gender relations, women's sexualities and identities in Latin America.

Cross-Listed as: LEH ANT 210/LAC 210/WST 210.
Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

LAC 214 - Literature of the Caribbean and the Caribbean Diaspora (3)

Comparative survey of literature of the Caribbean as well as Caribbean Diasporic populations, including common themes, structures, and approaches to literary texts. Examples are chosen from works in Spanish, French, English, and Papiamentu, read in translation if necessary.

Cross-Listed as: LEH LTS 214/AAS 214/LAC 214.
Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

LAC 216 - Latin American Cinema (3)

An overview of film in Latin America from the silent period to the present.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 224 - Dominicans in the United States (3)

Migration, settlement, incorporation, labor market, culture, and identity of the Dominican community in the United States.

Cross-Listed as: LEH LPR 224/LAC 224. Offered: Fall-Spring.

LAC 225 - History of the Dominican Republic (3)

Dominican history from pre-Colombian times to the present. The different socio-economic trends involved in the formation of Dominican society, as well as the prominent role played by foreign powers.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 226 - Contemporary Dominican Politics and Society (3)

Dominican politics, economy, and society from the Trujillo Era to the present. The course will focus on the authoritarian legacy of the Trujillo dictatorship, electoral politics in the post-Trujillo period, and recurring trends of caudillismo, praetorianism, and personalism.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 231 - Latinos in the United States (3)

A comparative study of the social, political, economic processes affecting Latino groups in the United States. Discussion will focus on the variable adaptations made by Puerto Ricans, Chicanos, Dominicans, Cubans, Colombians, and other Latinos in their migration and settlement within American society.

Cross-Listed as: LEH LTS 242 / LAC 231. Requirement Designation: Flexible Core - US Experience in its Diversity. Offered: Fall-Spring.

LAC 232 - Family and Gender Relations Among Latinos (3)

Comparative study of gender relations and the family among Latinos in the U.S.

Cross-Listed as: LEH LAC 312/LAC 232. Requirement Designation: Flexible Core - US Experience in its Diversity. Offered: Fall-Spring.

LAC 233 - Latin American Literature in Translation (3)

The poetry, novel, and essay of the nineteenth and twentieth centuries.

Cross-Listed as: LEH LAC 233/SPA 233. Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

LAC 234 - Latino Politics (3)

Latino social and political movements within the U.S political system. Topics include Latino social movements; political incorporation; electoral processes; immigration politics; foreign policy; and identity movements.

Cross-Listed as: LEH LTS 234/POL 234/LAC 234.
Requirement Designation: Flexible Core - US Experience in its Diversity. Offered: Fall-Spring.

LAC 235 - Caribbean Societies (3)

A comparative study of Caribbean societies and cultures, with emphasis on the commonality and diversity in their historical, social, political, and economic development

Cross-Listed as: LEH AAS 235/LAC 235. Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

LAC 237 - The Visual Arts in Puerto Rico (3)

A comprehensive study of the visual arts in Puerto Rico, with emphasis on painting, architecture, sculpture, and graphic arts from precolonial times to present. Discussion will focus on the origins, influences, and projections of the Puerto Rican art movement within a historical and aesthetic context.

Prerequisite: PRS 213 or Departmental Consent. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 238 - Selected Studies in Societies and Cultures (Latin America) (3)

Description and analysis of these areas' distinctive ecological, economic, sociopolitical, and ideological systems.

Cross-Listed as: LEH LAC 238/ANT 238. Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

LAC 241 - Literature of the English & Francophone Caribbean (3)

Analysis of the literary works of Caribbean writers. Poetry, the novel, drama, and other literary forms of major authors.

Cross-Listed as: LEH AAS 241/LAC 341. Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

LAC 247 - Brazilian Literature from the Colonial Period to the Twentieth Century (3)

Survey of Brazilian Literature from the Colonial Period to the 20th Century.

Cross-Listed as: LEH LAC 247/POR 247. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 250 - Contemporary Problems in the Hispanic World (3)

Reading and discussion in Spanish of selected texts dealing with problems such as the search for identity, nationalism, and the conflict between tradition and change.

Cross-Listed as: LEH LAC 250/SPA 250. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 265 - Contemporary Literature of Spain and Spanish America (3)

Contemporary trends in fiction, drama, and poetry as represented in the works of distinguished authors of Spain and Spanish America.

Cross-Listed as: LEH LAC 265/SPA 265. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 266 - Introduction to Latin America and the Caribbean I (3)

Survey of the peoples and civilizations of Pre-Columbian America, and of the institutions, economy, history, and culture of Latin America and the Caribbean from the European conquest to the early nineteenth century (1492-1808).

Cross-Listed as: LEH HIS 266/LAC 266. Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

LAC 267 - Introduction to Latin America and the Caribbean II (3)

Survey of the nations and cultures, history, economy, and politics of Latin America and the Caribbean from the early nineteenth century to the present.

Cross-Listed as: LEH HIS 267/LAC 267. Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

LAC 268 - History of Mexico (3)

Major themes in Mexican history: development of pre-Columbian civilizations; environmental and demographic impact of the Conquest; Spanish colonial period; wars of

independence of the 19th century; nation building, the Mexican Revolution, dictatorship, and one-party democracy; and the political, cultural and economic relationship between Mexico and the United States.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 270 - Global Citizenship, Community Engagement, and Service in Latin America, the Caribbean or in Latino Communities (3)

This cross-listed course is designed for Latin American (LAC) and Latino Studies (LTS) majors, as well as for other students preparing to participate in a service learning or volunteer experience for academic credit in any country in Latin America or the Caribbean.

Cross-Listed as: LEH LTS 270 / LAC 270. Requirement Designation: Regular Liberal Arts.

LAC 289 - Latin America (3)

The geography of continents or major areas outside Anglo-American and Western Europe. Special emphasis on the basic principles of economic and cultural geography of regionalization as illustrated in the area under consideration.

Cross-Listed as: LEH GEH 289/LAC 289. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 300 - Literatures of the African Diaspora in Latin America (3)

Analysis of literature by Latin American writers of African descent. Poetry, the novel, drama, and other literary forms. Works studied translated to English.

Cross-Listed as: LEH AAS 300/LAC 300. Offered: Fall-Spring.

LAC 301 - Puerto Rican Literature (3)

Chronological survey of Puerto Rican literature, especially in the twentieth century, in cultural, social, and political context, with attention to the major genres of Spanish and English-language works.

Prerequisite: Proficiency in Spanish and Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 304 - The Social History of Hispaniola (3)

History and social developments of the island of Hispaniola from colonial times to the present. Focus on the formation of the Spanish colony, the division of the island, the French and Haitian Revolutions, the creation of two nations (the Republic of Haiti and the Dominican Republic), conflicts over the border and race relations, the massacre of 1937, and the present social conditions in both nations.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 306 - The Haitian-Dominican Border: Nation, State and Race (3)

Major issues in the socio-historical development and dynamics of the Haitian-Dominican border, including physical and psychological divisions, social formations, state formation, migration, bi-national relations, and human rights.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 307 - Black Brazil (3)

Analysis of the social, political, and cultural ideology and practices of Black Brazilians.

Cross-Listed as: LEH AAS 307/LAC 307. Offered: Fall-Spring.

LAC 310 - Black Feminisms (3)

Contemporary Black feminist thought.

Cross-Listed as: LEH AAS 310/WSL 310/LTS 310/LAC 310. Offered: Fall-Spring.

LAC 312 - Latino Migrations (3)

Examination of a hemisphere on the move, with particular attention to mass migrations within Latin America as well as to and from the United States.

Cross-Listed as: LEH LAC 312/LAC 232. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 313 - Religion in Hispaniola: from Catholicism to African Religions (3)

Comparative history of Cuba, the Dominican Republic, and Puerto Rico in the nineteenth and twentieth centuries.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 314 - Religions in Latin America, the Caribbean, and Latino U.S. (3)

Religion as a revealing lens through which to study the history and contemporary cultures of Latin America and the Caribbean. The central role of religion from before Columbus to the present day, with emphasis on contemporary ethnographies of religion in the Americas (including Latin America, the Caribbean, and Latino U.S.).

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 315 - Comparative History of the Hispanic Caribbean (3)

Comparative history of Cuba, the Dominican Republic, and Puerto Rico in the nineteenth and twentieth centuries.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 316 - Visual Culture of Latin America, the Caribbean and the Diaspora (3)

Visual culture across Latin America, the Caribbean and the Diaspora, including visual arts, photography, film, video, and television and new media.

Cross-Listed as: LEH LAC 316/LTS 316. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 317 - Early Civilization of South America and the Caribbean (3)

The Incas and their ancestors the Arawaks and the Caribs. A region by region treatment of the prehistory of South America and the Caribbean, the course examines the diversity of ancient life in this area. Special emphasis on the native civilizations of the Andes. Additional material from all other parts of Central America, the Caribbean, and South America.

Cross-Listed as: LEH ANT 317/LAC 317. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 318 - Early Civilizations of Mexico and Central America (3)

The Aztec and Mayan civilizations of Mexico and northern Central America from the earliest peopling of the new world to the civilizations encountered by Cortes and the Spanish. Topics include the origins of agriculture and settled life, the earliest civilizations, Olmec art, Maya astronomy, and Aztec sacrifice.

Cross-Listed as: LEH ANT 318/LAC 318. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 319 - Latinos in Film (3)

Latino ethnicities have been constructed in Hollywood films from the silent era to the present.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 320 - Spanish American Literature of the 19th Century (3)

Readings of the representative authors.

Prerequisite: SPA 300. Cross-Listed as: LEH LAC 320/SPA 320. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 321 - Latino New York (3)

A multidisciplinary investigation of the presence and impact of Latino populations in New York City from 1800s to the present.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 323 - Economic Development in Latin America (3)

Examination of major economic trends in Latin American economic development and the impact of North American

policy. Special emphasis is placed on Latin American views of economic growth and on foreign intervention in particular areas such as Brazil, Mexico, Puerto Rico, Cuba, and Chile.

Cross-Listed as: LEH ECO 323/LAC 323. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 324 - History of Cuba (3)

History of Cuba, from colonial times to the present. Focus on Cuban independence and United States intervention; race, gender, and construction of the nation; the path toward a socialist revolution; efforts at reform; and Cuba's role in Latin America and the world.

Cross-Listed as: LEH HIW 324/LAC 324. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 329 - Literature of the Dominican Republic (3)

Study of the literary figures and literary works instrumental in the development of a national literature in the Dominican Republic during the twentieth century.

Prerequisite: SPA 300 or Departmental Placement. Cross-Listed as: LEH LAC 329/SPA 329. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 328 - Spanish-American Fiction of the Twentieth Century (3)

Critical readings of twentieth-century narrative texts.

Cross-Listed as: LEH SPA 332/LAC 328. Offered: Fall-Spring.

LAC 330 - Latin America in the Nineteenth Century (3)

Examination of the Spanish and Portuguese colonial systems in America; the wars of independence; and the emerging Latin American nations of the nineteenth century.

Cross-Listed as: LEH HIW 330/LAC 330. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 331 - Modern Latin America (3)

Examination of how the strategies of "reform" and "revolution" are applied to the process of development in twentieth-century Latin America and the Caribbean.

Cross-Listed as: LEH HIW 331/LAC 331. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 332 - Political Systems in Latin America (3)

Domestic institutions and foreign policies of selected Latin American republics.

Cross-Listed as: LEH LAC 332/POL 332. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 333 - Spanish American Literature of the Conquest (3)

A study of texts from the period of the Spanish Discovery and conquest of the New World through the period of

colonization. Letters, diaries, chronicles, poems, histories, and travel narratives will be read.

Prerequisite: SPA 300. Cross-Listed as: LEH LAC 333/SPA 333. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 334 - The Musical Experience of Caribbean Cultures and Societies (3)

Analysis of music and performance in Caribbean cultures with respect to national identity, ethnicity, gender, race, and social class.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 335 - The Afro-Caribbean in World Politics (3)

The problems and prospects for the independent Caribbean states in contemporary world politics. The course will emphasize such topics as neocolonialism, economic development, regionalism, federation, emigration, nonalignment, and the present and prospective policy choices for the small Caribbean states.

Cross-Listed as: LEH AAS 335/LAC 335. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 336 - Political Systems of Central America and the Caribbean (3)

Domestic institutions and foreign policies of the Latin American and Caribbean states. The causes, circumstances, and effects of revolution and counterrevolution.

Cross-Listed as: LEH LAC 336/POL 336. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 337 - Latin America and the United States from 1823 to the Present (3)

Relations between the United States and Latin American countries since their creation as independent republics.

Cross-Listed as: LEH HIW 337/LAC 337. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 338 - Colonial Latin America (3)

Examination of the development of colonial societies in Latin America from the "encounter" of the 16th century to the crisis of the Iberian empires in the late-eighteenth century.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 339 - Latino Literature (3)

English-language literature developed by Puerto Ricans, Chicanos, Cubans, Dominicans, and other Latino groups in the U.S. Emphasis on the similarities in the development of themes, structures, and genres, and relationships with mainstream American literature.

Cross-Listed as: LEH ENG 339/LAC 339/SPA 339.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 340 - Slavery in Latin America and the Caribbean (3)

Comparative examination of slavery in Latin America and the Caribbean. Emphasis on the Portuguese (Brazil) and Spanish (Cuba) systems, with reference to the British, North American, and French systems.

Cross-Listed as: LEH HIW 340/LAC 340. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 341 - Puerto Rican Music (3)

Analysis of musical performance with respect to identity, gender, race, and class. Emphasis will be placed on the hybrid nature of the music and on the role played by the Puerto Rican Diaspora in the creation of the music.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 342 - Latin American Popular Music (3)

Latin American popular music as cultural product. Important continental genres and their emergence in particular historical and geographical contexts. Local examples of how social and political experiences become manifest through creative expression.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 343 - Pre-Columbian Art (3)

The art and architecture of Mexico, Central America, and South America prior to the Spanish conquest in the 16th century.

Cross-Listed as: LEH ARH 343/LAC 343. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 344 - Twentieth-Century Latin American Poetry (3)

Study of the major trends in Latin-American poetry from el modernismo to the present. Among the major poets to be studied are Dario, Lugones, Huidobro, Borges, Vallejo, Neruda, Parra, Paz, and others.

Prerequisite: SPA 300 Cross-Listed as: LEH LAC 344/SPA 343. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 345 - History of South America (3)

Pre-Columbian and colonial foundations of the nation-state and the construction of modern nations in South America in the post-independence period.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 346 - Introduction to Mexican and Chicano/a Literatures (3)

Major themes in Mexican and Chicano/a literatures within their specific historical and sociopolitical contexts.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 347 - Race and Ethnicity in Latin America and the Caribbean (3)

Comparative study of racial and ethnic relations in Latin America.

Cross-Listed as: LEH ANT 347/LAC 347. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 349 - Latino Political Economy (3)

The role of Hispanics/Latinos in the U.S. political economy. How market and political forces shape Latino employment, income, wealth, immigration, and economic development.

Cross-Listed as: LEH LAC 349. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 350 - Latino Studies Research Seminar (3)

Selected aspects of Latino history, politics, arts, and society. Topics to be announced each semester.

Cross-Listed as: LEH LTS 350/LAC 350. Offered: Fall-Spring.

LAC 351 - The Mexican Revolution (3)

Examination of the Mexican Revolution of 1910, including nineteenth-century preconditions, overthrow of the old regime, the civil war phase, and postrevolutionary reconstruction of modern Mexico.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 352 - Special Topics in Hispanic Literature (3)

Study of selected themes (e.g., women) or modes (e.g., parody) or literary forms and strategies (e.g., first person narrative) in Peninsular and/or Spanish American literatures.

Cross-Listed as: LEH LAC 352/SPA 352. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 359 - Spanish American Civilization (3)

Topics in the study of the culture and civilization of Spanish America as seen in its literature.

Cross-Listed as: LEH LAC 359/SPA 359. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 360 - Special Topics in Latin American and Latino Studies (3 (maximum 6 credits))

Various topics in Latin American and Latino Studies. Course may be repeated once with a different topic.

Cross-Listed as: LEH LTS 360 / LAC 360. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 363 - Mexican Migration to the U.S.: History, Culture, and Civil Rights (3)

An assessment of the history of Mexican migration to the U.S., as well as Mexico's past and present impact on culture, public policy, and civil rights.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 364 - Through Foreign Eyes: Outsiders look at Mexico (3)

A critical and analytical view of the dominant images of Mexico's national identity as Mestizo and Catholic.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 400 - Seminar: Slavery in the New World (3)

Intensive study of the institution of slavery in the New World. Emphasis will be on specific themes: slave-master relationships, industrial and plantation slavery, the economics and politics of slavery, and the impact of slavery on Black culture.

Prerequisite: Department Consent Required Cross-Listed as: LEH AAS 400/LAC 400. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 420 - Latin American and Latino Studies Seminar: Interdisciplinary Research Methods in Latino/a and Latin American Studies (3)

Interdisciplinary approach to research methodologies on topics related to Latin American and Latino studies.

Prerequisite: 12 credits in LAC or LTS courses or Department permission. Cross-Listed as: LEH LAC 420/LTS 420. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAC 490 - Directed Independent Study (3)

Directed independent study affords an opportunity for the student who wishes to undertake a well-defined research project. While the student conducts work under the guidance of a faculty member chosen by the student, the project is carried out in an independent manner, without regular class meetings.

Prerequisite: Department Consent Required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT - Latin

LAT 101 - Introduction to Latin I (4)

LAT 101 and 102 constitute a two semester sequential unit of instruction designed for the student who has had no previous training in Latin. The objective of this sequence is to train the

student to read graded passages of Latin literature chosen from ancient authors.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 102 - Introduction to Latin II (5)

Concludes the study of syntax and vocabulary started in LAT 101 and begins the reading of continuous Latin texts.

Prerequisite: Pre-requisite LAT 101 or Departmental Placement Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 103 - Introduction to Latin I (3)

See Department for Description.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 104 - Introduction to Latin II (3)

See Department for Description.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 105 - Introduction to Latin III (3)

See Department for Description.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 228 - Prose and Poetry of the Roman Republic (3)

A survey of Roman literature from its beginning in 240 B.C. to the end of the Republic through the reading of selections from such major authors as Plautus, Terence, Lucretius, Cicero, Catullus, Sallust, and Livy, with supplementary readings in English in the history of Latin literature.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 281 - Intermediate Latin Tutorial (3)

Individual readings in Latin prose and poetry under faculty direction.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 285 - Individualized Intermediate Foreign Language Study (1)

Independent study in Latin generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 301 - Roman Comedy (3)

Selections from the plays of Plautus and Terence.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 302 - The Works of Horace (3)

Selections from the Epodes and Odes, the Satires, the Epistles, and the Ars Poetica.

Prerequisite: Department Consent Required Requirement
Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 303 - Vergil's Eclogues and Georgics (3)

Selections from the Eclogues and Georgics.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 304 - The Works of Cicero (3)

Selections from either his Orations or Essays.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 305 - Lucretius's "On the Nature of Things" (3)

Selections from De Rerum Natura.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 306 - Vergil's Aeneid (3)

Study of the Aeneid as a whole, with extensive readings of selections in the original.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 307 - Personal Correspondence (3)

Selections from the letters of Cicero, Seneca, and Pliny.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 308 - The Roman Novel (3)

Selections from the Satyricon of Petronius and the Metamorphoses of Apuleius.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 310 - Livy's History of Rome (3)

Selections from either the early period of Rome or the Hannibalic War.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 314 - The Works of Ovid (3)

Selections from the Metamorphoses, Fasti, Heroides, or the amatory or personal elegies.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 315 - Catullus and the Elegiac Poets (3)

Selections from Catullus and from the elegies of Tibullus, Propertius, and Ovid.

Prerequisite: Department Consent Required Requirement
Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 316 - Caesar's Commentaries (3)

Selections from DeBello Civili and the Corpus Belli Civilis.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 317 - The Works of Tacitus (3)

The Agricola, Germania, Dialogus, or selections from the Annales and Historiae.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 318 - Roman Writers of the First and Second Centuries, A.D. (3)

Selections from the works of Seneca, Lucan, Persius, Martial, Juvenal, Quintilian, and Suetonius.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 319 - Comparative Grammar (3)

Comparative analysis of English and Latin morphology, basic phonology, and syntax.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 381 - Tutorial (3)

Individual study of a special field or author

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 385 - Individualized Advanced Foreign Language Study (1)

Independent study in Latin generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 400 - Latin Prose Composition and Stylistics (2)

A review of Latin grammar and syntax, in conjunction with analysis and imitation of standard Latin Prose stylists.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LAT 491 - Honors Research (3)

Individual study of a special field or author.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LEH - General Studies

LEH 100 - The Liberal Arts: Freshman Seminar (3)

The nature of the liberal arts, the goals and objectives of General Education at Lehman, and issues of career vs. liberal education. Information literacy, critical thinking, and intellectual integrity.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LEH 101 - The Liberal Arts (3)

The nature of the liberal arts, the goals and objectives of General Education at Lehman, and issues of vocational vs. liberal education. Information literacy, critical thinking, and intellectual integrity. Long Range Academic Planning (LRAP). Students who successfully complete LEH 101 will be required, upon completion of 60 credits, to take only one section of LEH 300 or LEH 301.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LEH 110 - The Liberal Arts (3)

The nature of the liberal arts, the goals and objectives of General Education at Lehman, and issues of vocational vs. liberal education. Information literacy, critical thinking, and intellectual integrity. Long Range Academic Planning (LRAP). Students who successfully complete LEH 110 will be required, upon completion of 60 credits, to take only one section of LEH 300 or LEH 301.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LEH 300 - Studies in the Humanities and the Social Sciences (3)

(may be repeated for credit with a different topic.) Selected topics in the humanities and the social sciences studied from different disciplinary perspectives.

Prerequisite: Completion of at least 60 college credits. Cross-Listed as: LEH LEH 300W/LEH 300. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LEH 301 - Studies in the Humanities and the Social Sciences (3)

(may be repeated for credit with a different topic.) An in-depth and interdisciplinary analysis of American society and culture with an emphasis on what it means to be called an American.

Prerequisite: Completion of at least 60 college credits. Cross-Listed as: LEH LEH 301W/LEH 301. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LEH 351 - Studies in Scientific and Applied Perspectives (3)

Selected topics in the social sciences, life and physical sciences and applied perspectives.

Prerequisite: Declared major and either completion of 60 credits or an Associate's Degree. Requirement Designation: College Option. Offered: Fall-Spring.

LEH 352 - Studies in Literature (3)

Selected topics in literature.

Prerequisite: Declared major and either completion of 60 credits or an Associate's Degree. Requirement Designation: College Option. Offered: Fall-Spring.

LEH 353 - Studies in the Arts (3)

Selected topics in the arts.

Prerequisite: Declared major and either completion of 60 credits or an Associate's Degree. Requirement Designation: College Option. Offered: Fall-Spring.

LEH 354 - Studies in Historical Studies (3)

Selected topics in historical studies.

Prerequisite: Declared major and either completion of 60 credits or an Associate's Degree. Requirement Designation: College Option. Offered: Fall-Spring.

LEH 355 - Studies in Philosophy, Theory and Abstract Thinking (3)

Selected topics in philosophy, theory and abstract thinking.

Prerequisite: Declared major and either completion of 60 credits or an Associate's Degree. Requirement Designation: College Option. Offered: Fall-Spring.

LNG - Linguistics

LNG 150 - The Phenomena of Language (3)

The nature of language -its forms and uses. A survey of linguistic analysis. Language as data in psychology, anthropology, sociology, and other social sciences.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LNG 228 - Language and Culture (3)

Cultural meanings of language in use and the interrelations between linguistic behaviors and cultural practices.

Cross-Listed as: LEH ANT 228/LNG 228. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LNG 240 - Language and Communication (3)

The use of language, its influence on thought and behavior.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LNG 245 - Articulatory Phonetics (3)

Fundamentals of articulatory phonetics; descriptive analysis of spoken forms of American English and other languages.

Cross-Listed as: LEH SPV 245. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LNG 246 - Introduction to Linguistics (3)

Descriptive linguistics and analysis of phonology, morphology, syntax, semantics, and pragmatics.

Cross-Listed as: LEH SPV 246 / LNG 246. Requirement Designation: Flexible Core - Scientific World.

LNG 247 - Anatomy and Physiology of the Speech Mechanism (3)

Anatomy, physiology, and neurophysiology of the speech and vocal mechanism; physiological studies of speech.

Cross-Listed as: LEH LNG 247/SPV 247. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LNG 248 - Acoustic Phonetics (3)

Acoustic Phonetics

Prerequisite: PREREQ: SPV 245 or LNG 245 Cross-Listed as: LEH LNG 248/SPV 248. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LNG 266 - Intermediate Logic (3)

Introduction to the techniques and applications of modern deductive logic; a development of formal systems of propositional and quantificational logic.

Prerequisite: PHI 170. Cross-Listed as: LEH LNG 266 / PHI 230. Requirement Designation: Regular Liberal Arts.

LNG 3080 - Phonetics and Diction (3)

Descriptive study of a language's sound system. Practice in phonetic perception, transcription, and articulation. Attention to sentence phonetics: juncture, stress, pitch.

Prerequisite: Relevant Languages and Literature course in Intermediate Reading and Composition or Departmental permission. Offered: Fall-Spring.

LNG 3100 - Comparative Grammar (3)

Comparative analysis of the morphology, basic phonology, and syntax of English and one other language.

Prerequisite: Relevant Languages and Literatures course in Intermediate Grammar or Departmental permission. Offered: Fall-Spring.

LNG 312 - Bilingualism (3)

The nature of bilingualism as a societal and individual human phenomenon; linguistic and applied linguistic issues; second language acquisition, psycholinguistic, sociolinguistic, neurolinguistic, educational aspects of bilingualism, and language policy.

Prerequisite: LNG 321 / SPV 321. Cross-Listed as: LEH SPV 312/LNG 312. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LNG 3150 - Comparative Grammar (3)

Comparative analysis of the morphology, basic phonology, and syntax of English and one other language.

Prerequisite: Relevant Languages and Literatures course in Intermediate Grammar or Departmental permission. Offered: Fall-Spring.

LNG 318 - Struct Modern English (3)

Struct Modern English

Cross-Listed as: LEH ENG 304/LNG 318. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LNG 321 - Introduction to Syntax (3)

Government Binding (GB) syntax for the study of linguistics minimalism and post-minimalism; structure of an uncommonly taught language; other syntactic theories.

Prerequisite: LNG 246 or SPV 246 or LNG 160. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LNG 323 - Introduction To Phonology (3)

The sound system of languages and underlying representation of the sound structure and lexicon. Analysis of data from different languages; investigation of the differences and similarities in the sound systems of different languages. Exploration of language universals.

Prerequisite: LNG 245 or SPV 245 and LNG 246 or SPV 246 or LNG 160. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LNG 324 - Semantics (3)

Linguistic meaning, including word and sentence meaning, reference, and truth; connections among language, thought, and the world; speech act theory and formal semantic theory; metaphor and meaning in practice.

Prerequisite: LNG 246 or SPV 246 or LNG 160. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LNG 326 - Anthropological Linguistics (3)

Speech and language within the context of anthropology. Language as a cultural resource.

Cross-Listed as: LEH ANT 326/LNG 326. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LNG 330 - Language Acquisition (3)

Study of speech, language, and communication skills in typically developing children. Exploration of gender, multicultural, multilingual, and socioeconomic variations in language development. Analysis of the processes involved in language learning and use and the foundations of language

and literacy from infancy through the school-age years to complex language development over the lifespan.

Prerequisite: SPV 245 (LNG 245); SPV 246 (LNG 160); SPV 228; SPV 247 (LNG 247); a 2.7 average across the four prerequisite courses; departmental permission. Cross-Listed as: LEH SPV 321/LNG 330. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LNG 334 - Historical Linguistics (3)

Principles of historical linguistics. The nature of language change, types and causes of change, variation and diffusion of changes through populations, differentiation of dialects and languages, determination and classification of historical relationships among languages, the reconstruction of ancestral languages and intermediate changes.

Prerequisite: LNG 246 or SPV 246 or LNG 160. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LNG 335 - Sociolinguistics: The Sociology of Language (3)

The interaction among language, culture, and society; issues of language diversity; the development of dialects, pidgins, and creoles.

Prerequisite: LNG 246 or SPV 246 or LNG 160. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LNG 337 - Conversational and Discourse Analysis (3)

Spoken and written conversational and discourse analysis with an overview of various psycholinguistic and sociolinguistic approaches. Application to language teaching and research.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LNG 338 - Women, Men and Language (3)

Review of major theoretical approaches to the field of language and gender, from diverse cultural perspectives. Analysis of ways in which gender ideologies shape and are shaped by language use.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LNG 339 - African languages (3)

African languages and language families, their characteristics and development, including pidgin and Creole languages. Analysis of relations of language to ethnicity and identity. The contributions of African languages to general linguistic theory.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LNG 340 - Pragmatics (3)

Language use relative to structure and context. Theoretical perspectives on speech acts and their application to human communication and language instruction.

Prerequisite: SPV 246 or LNG 160. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LNG 341 - The Evolution of Language (3)

Evaluates proposals and research on the evolution of the uniquely human capacity to learn and use language. Samples literature in a broad range of fields, from anthropology and animal behavior to evolutionary and developmental biology, psychology, and linguistics.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LNG 342 - The Psychology of Literacy Development (3)

Psychological processes involved in reading and literacy development, including the relations between oral language and reading/literacy development, as well as the several stages of reading development.

Cross-Listed as: LEH LNG 342/PSY 342. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LNG 3430 - Internet Linguistics (3)

Formal properties of language on the internet. Standards of communication across mediums, and implications for language acquisition. Methods of digital data collection and analysis. Connection between digitally mediated communication and literacy skills.

Prerequisite: LNG 160. Offered: Fall-Spring.

LNG 3440 - Logical Theory (3)

General introduction to the theory of formal axiomatic systems, proof of the soundness, completeness, and consistency of some axiomatic systems of logic; decision problems and independence; some topics in the semantics of formalized languages; and many-valued and modal logics.

Cross-Listed as: LEH PHI 3440/LNG 3440. Offered: Fall-Spring.

LNG 3450 - History of the Spanish Language (3)

The life of languages. Special emphasis on semantic change; how new words are created, how their meanings change through time, as well as in the wide and varied geographical areas where Spanish is spoken.

Prerequisite: SPA 202 or SPA 204 or Departmental permission. Cross-Listed as: LEH SPA 3450/LNG 3450. Offered: Fall-Spring.

LNG 3500 - History of a Language (3)

The life of languages. Special emphasis on semantic change; how new words are created, how their meanings change through time, as well as in the wide and varied geographical areas where a particular language is spoken.

Prerequisite: Relevant Languages and Literature course in Intermediate Reading and Composition or Departmental permission. Offered: Fall-Spring.

LNG 444 - Readings in Linguistics (3)

Special topics, varying from semester to semester, of particular interest to related disciplines.

Prerequisite: LNG 246 or SPV 246 or LNG 160. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LNG 481 - Honors Tutorial (3)

(maximum 6 credits.) Individual study under faculty guidance leading to completion of an honors paper.

Prerequisite: Program Director's permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LSP - Lehman Scholars Program

LSP 150 - Honors Seminar (3)

See Department for Description.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LSP 151 - English Composition and Stylistics (3)

Study of the grammar and syntax of selected important authors and their application to composition.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LSP 152 - Honors Seminar (3)

See Department for Description.

Prerequisite: Enrollment in the LSP Program. Department Consent Required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LSP 153 - Honors Seminar (3)

See Department for Description.

Prerequisite: Enrollment in the LSP Program. Department Consent Required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LSP 285 - Independent Study (1)

See Department for Description.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LSP 350 - Honors Seminar in the Fine and Performing Arts (3)

Interdisciplinary seminar in the fine and performing arts. Permission of Director.

Prerequisite: Honors Students (LSP or MHC) Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

LSP 351 - Honors Seminar in the Humanities (3)

See Department for Description.

Prerequisite: Honors Students (LSP or MHC) Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

LSP 352 - Honors Seminar in the Natural Sciences (3)

May be taken for a maximum of nine credits (three different topics). Interdisciplinary seminar in the natural sciences. Permission of Director.

Prerequisite: Honors Students (LSP or MHC) Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LSP 353 - Honors Seminar in the Social Sciences (3)

May be taken for a maximum of nine credits (three different topics). Interdisciplinary seminar in the social sciences. Permission of Director

Prerequisite: Honors Students (LSP or MHC) Requirement Designation: Flexible Core - Individual and Society. Offered: Fall-Spring.

LSP 354 - Honors Seminar in Mathematical Reasoning (3)

May be taken for a maximum of nine credits (three different topics). Interdisciplinary seminar in mathematical reasoning. Permission of Director.

Prerequisite: Honors Students (LSP or MHC) Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LSP 357 - Honors Seminar in Mathematical Reasoning: The Shape of Space (3)

Use of evidence in mathematical reasoning, and the history and philosophical foundations of mathematics. Emphasis will be on the mathematics of two-dimensional space.

Prerequisite: MAT 104 or equivalent, or instructor's permission. Enrollment in Lehman Scholars Program or Macaulay Honors College, or by instructor's permission Offered: Fall-Spring.

LSP 358 - Honors Seminar in Mathematical Reasoning: Understanding Mathematics (3)

In-depth understanding of mathematics. Topics to include the axiomatic method, ancient history of mathematics, and the philosophical foundations of mathematics.

Prerequisite: MAT 104 or equivalent, or instructor's permission. Enrollment in Lehman Scholars Program or Macaulay Honors College, or by instructor's permission. Offered: Fall-Spring.

LSP 359 - The Scientific Revolution: From Copernicus to Newton and the Enlightenment (3)

Survey of the rise of modern science from Copernicus to Newton, the period of intellectual ferment in the 16th and 17th centuries generally referred to as the Scientific Revolution.

Prerequisite: Enrollment in Lehman Scholars Program or Macaulay Honors College, or by special permission Offered: Fall-Spring.

LSP 481 - Honors Tutorial (3)

(maximum 6 credits). Individual research and reading on a specific topic, under faculty supervision.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LTS - Latino Studies

LTS 212 - History of Puerto Rico (3)

Survey of the history of Puerto Rico.

Cross-Listed as: LEH HIS 212 / LTS 212. Requirement Designation: Flexible Core - World Cultures & Global Issues.

LTS 213 - Puerto Rican Culture: Global Identities (3)

Culture as seen from the comparative perspectives of Hispanic Caribbean, Latin American, and U.S. experience. Particular attention on identity formation, hybridity, and change among island and mainland Puerto Ricans.

Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

LTS 214 - Literature of the Caribbean and the Caribbean Diaspora (3)

Comparative survey of literature of the Caribbean as well as Caribbean Diasporic populations, including common themes, structures, and approaches to literary texts. Examples are chosen from works in Spanish, French, English, and Papiamentu, read in translation if necessary.

Cross-Listed as: LEH LAC 214/AAS 214/LTS 214. Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

LTS 224 - Dominicans in the United States (3)

The study of the migration, settlement, incorporation, labor market, culture, and identity of the Dominican community in the United States.

Cross-Listed as: LEH LAC 224/LPR 224. Offered: Fall-Spring.

LTS 232 - Family and Gender Relations among Latinos (3)

Comparative study of gender relations and the family among Latinos in the U.S.

Requirement Designation: Flexible Core - US Experience in its Diversity. Offered: Fall-Spring.

LTS 234 - Latino Politics (3)

Latino social and political movements within the U.S. political system. Topics include Latino social movements;

political incorporation; electoral processes; immigration politics; foreign policy; and identity movements.

Cross-Listed as: LEH LAC 234/POL 234/LTS 234.

Requirement Designation: Flexible Core - US Experience in its Diversity. Offered: Fall-Spring.

LTS 242 - Latinos in the United States (3)

A comparative study of the social, political, and economic processes affecting Latino groups in the United States. Discussion will focus on the variable adaptations made by Puerto Ricans, Chicanos, Dominicans, Cubans, Colombians, and other Latinos in their migration and settlement within American society.

Cross-Listed as: LEH LAC 231 / LTS 242. Requirement Designation: Flexible Core - US Experience in its Diversity. Offered: Fall-Spring.

LTS 269 - History of U.S. Latinos (3)

The history of Latinos in the United States from their seventeenth- century beginnings to the present.

Requirement Designation: Flexible Core - US Experience in its Diversity. Offered: Fall-Spring.

LTS 270 - Global Citizenship, Community Engagement, and Service in Latin America, the Caribbean or in Latino Communities (3)

This cross-listed course is designed for Latin American (LAC) and Latino Studies (LTS) majors, as well as for other students preparing to participate in a service learning or volunteer experience for academic credit in any country in Latin America or the Caribbean.

Cross-Listed as: LEH LAC 270 / LTS 270. Requirement Designation: Regular Liberal Arts.

LTS 300 - Social and Economic History of Puerto Rico from the Industrial Revolution to the Present (3)

Intensive survey of the socioeconomic formations of Puerto Rico from the Industrial Revolution to the present.

Prerequisite: Departmental permission for History majors. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LTS 301 - Puerto Rican Literature (3)

Chronological survey of Puerto Rican literature, especially in the twentieth century, in cultural, social, and political context, with attention to the major genres of Spanish and English-language works.

Prerequisite: Proficiency in Spanish and Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LTS 302 - Dominican American Literature (3)

Analysis of the literary production by Dominicans in the United States.

Offered: Fall-Spring.

LTS 307 - Contemporary Puerto Rican Politics and Society (3)

Intensive study of current socioeconomic and political contexts in Puerto Rico.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LTS 308 - The Economy of Puerto Rico (3)

The impact of the United States on the economy of Puerto Rico, with emphasis on unemployment, prices, wage rates, industrialization, trade, commerce, and migration. Analysis of the consequences of the economic status of the island for the Puerto Rican people.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LTS 309 - Latino Social Movements and Civil Rights (3)

Social and political movements among Latinos in the US and Puerto Rico from the nineteenth century to the present.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LTS 310 - Black Feminisms (3)

Contemporary Black feminist thought.

Cross-Listed as: LEH AAS 310/WST 310/LAC 310/LTS 310. Offered: Fall-Spring.

LTS 311 - Migration and the Puerto Rican Community in the United States (3)

History and development of the Puerto Rican community in the United States: migration, community establishment, institutions, regional patterns of settlement, and issues of class, race, ethnicity, and gender.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LTS 312 - Latino Migrations (3)

Examination of a hemisphere on the move, with particular attention to mass migrations within Latin America as well as to and from the United States.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LTS 313 - Latino Popular Culture (3)

Study of Latino popular culture including various genres, such as visual art, music, film, and dance.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LTS 314 - Religions in Latin America, the Caribbean, and Latino U.S. (3)

Religion as a revealing lens through which to study the history and contemporary cultures of Latin America and the Caribbean. The central role of religion from before Columbus to the present day, with emphasis on contemporary ethnographies of religion in the Americas (including Latin America, the Caribbean, and Latino U.S.).

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LTS 316 - Visual Culture of Latin America, the Caribbean and the Diaspora (3)

Visual culture across Latin America, the Caribbean and the Diaspora, including visual arts, photography, film, video, and television and new media.

Cross-Listed as: LEH LTS 316/LAC 316. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LTS 319 - Latinos in Film (3)

Latino ethnicities have been constructed in Hollywood films from the silent era to the present.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LTS 320 - Puerto Rican Literature in English (3)

Puerto Rican literature originally written in English in the Diaspora, as well as seminal works translated into English from Spanish.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LTS 321 - Latino New York (3)

A multidisciplinary investigation of the presence and impact of Latino populations in New York City from 1800s to the present.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LTS 339 - Latino Literature (3)

English-language literature developed by Puerto Ricans, Chicanos, Cubans, Dominicans, and other Latino groups in the U.S. Emphasis on the similarities in the development of themes, structures, genres, and relationships with mainstream American literature.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LTS 341 - Puerto Rican Music (3)

Analysis of musical performance with respect to identity, gender, race, and class. Emphasis will be placed on the hybrid nature of the music and on the role played by the Puerto Rican Diaspora in the creation of the music.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LTS 346 - Introduction to Mexican and Chicano/a Literature (3)

Major themes in Mexican and Chicano/a literatures within their specific historical and sociopolitical contexts.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LTS 348 - Latino Health (3)

An interdisciplinary perspective on the health of Latinos in the United States. Topics include health disparities, immigrant paradox, chronic disease, and current research on protective factors.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LTS 349 - Latino Political Economy (3)

The role of Hispanics/Latinos in the U.S. political economy. Emphasis on experiences and challenges involving jobs, income, poverty, wealth, and business administration. Attention to the economic status of the Hispanic/Latino population compared to other ethnic populations; the nature, variety, and relations among various Latino groups; the role of political economy in contemporary public-policy debates; and economic prospects for Hispanics/Latinos.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LTS 350 - Latino Studies Research Seminar (3)

Selected aspects of Latino/Puerto Rican history, politics, arts, and society. Topics to be announced each semester.

Cross-Listed as: LEH LAC 350/LTS 350. Offered: Fall-Spring.

LTS 353 - Latino Media (3)

The production, representations, and cultural meanings of Latino media in the U.S., including television, radio, film, advertising, newspapers, and magazines.

Offered: Fall-Spring.

LTS 360 - Special Topics in Latin American and Latino Studies (3 (maximum 6 credits))

Various topics in Latin American and Latino Studies. Course may be repeated once with a different topic.

Cross-Listed as: LEH LAC 360 / LTS 360. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LTS 363 - Mexican Migration to the U.S.: History, Culture, and Civil Rights (3)

An assessment of the history of Mexican migration to the U.S., as well as Mexico's past and present impact on culture, public policy, and civil rights.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LTS 420 - Latin American and Latino Studies Seminar: Interdisciplinary Research Methods in Latino/a and Latin American Studies (3)

Interdisciplinary approach to research methodologies on topics related to Latin American and Latino studies.

Prerequisite: 12 credits in LAC or LTS courses or Department permission. Cross-Listed as: LEH LTS 420/LAC 420.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

LTS 490 - Directed Independent Study (3 (may be repeated for a maximum of 6 credits))

Directed independent study affords an opportunity for the student who wishes to undertake a well-defined research project. While the student conducts work under the guidance of a faculty member chosen by the student, the project is carried out in an independent manner, without regular class meetings.

Prerequisite: Department permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT - Mathematics

MAT 031 - Arithmetic (0)

Arithmetic

Prerequisite: Department Consent Required Requirement Designation: Message Liberal Arts. Offered: Fall-Spring.

MAT 104 - College Algebra (3)

Rational expressions, integer and rational exponents, quadratic formula, complex numbers, exponential and logarithmic functions, conic sections, trigonometry. Mathematics laboratory attendance may be assigned at the discretion of the instructor.

Prerequisite: A grade of C (or better) in MAT 090 or placement by the Department of Mathematics and Computer Science. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 105 - Immersive Algebra. Intensive algebraic problem solving in preparation for successful precalculus (1)

Immersive Algebra. Intensive algebraic problem solving in preparation for successful precalculus, passing with a B or better allows student to take MAT 171 or MAT 172.

Prerequisite: MAT 104. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 108 - Trigonometry (2)

Unit Circle Trigonometry, Radians, Graphing Trigonometric Functions, Inverse Trigonometric functions, Trigonometric Identities, Laws of Sines and Cosines, and Applications.

Prerequisite: Placement by the Department of Mathematics.
Requirement Designation: Liberal Arts.

MAT 123 - A Problem-Solving Approach to Mathematics (4)

A problem-solving approach to fundamental ideas in mathematics: properties of counting numbers, integers, rationals and reals; elementary number theory; probability and statistics; geometry.

Prerequisite: MAT 104 or placement by the Department of Mathematics and Computer Science. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 126 - Quantitative Reasoning (3)

Survey of modern quantitative techniques in a variety of disciplines. Critical thinking and mathematical/quantitative literacy are emphasized.

Requirement Designation: Required Core - Mathematical&QuantitativeReasoning. Offered: Fall-Spring.

MAT 128 - Foundations of Data Science (3)

Statistical and computational tools for analyzing data. Acquiring data from multiple sources, techniques for efficiently traversing, storing, and manipulating data. Emphasis on statistical analysis and visualization of real data.

Prerequisite: Score of 65 or higher on College Math section of Accuplacer exam or department permission. Requirement Designation: Required Core - Mathematics and Quantitative Reasoning. Offered: Fall-Spring.

MAT 132 - Introduction to Statistics (4)

Collection, plotting, and comparison of data sets, histograms, descriptive statistics, the frequency definition of probability, random experiments, random sampling, binomial and normal variables, confidence intervals and tests of hypotheses for binomial and normal parameters. Additional topics chosen from tests for the difference of proportions or population means, the Chi Square test, and regression analysis. Introduction to a computer statistical package.

Prerequisite: MAT 104 or placement by the Department of Mathematics and Computer Science. Requirement Designation: Required Core - Mathematical&QuantitativeReasoning. Offered: Fall-Spring.

MAT 135 - Concepts and Uses of Mathematics (3)

A survey course for liberal arts students. Topics chosen from a wide range of concepts in mathematics such as: probability, statistics, game theory, number theory, set theory, linear programming, geometry and logic.

Prerequisite: MAT 104 or placement by the Department of Mathematics and Computer Science. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 139 - The Mathematics of Games of Chance (3)

Mathematics applied to the study of games, gambling, sporting events and other decision making situation. Topics to include permutations, combinations, probability, expected value, binomial distribution and game theory.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 155 - Calculus I Laboratory (1)

Calculus computer software will be used to illustrate the ideas introduced in MAT 175. Students will be asked to solve problems using the software and to submit lab reports.

Corequisite: MAT 175. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 156 - Calculus II Laboratory (1)

Calculus computer software will be used to illustrate the ideas introduced in MAT 176. Students will be asked to solve problems using the software and to submit lab reports.

Corequisite: MAT 176. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 161 - Computer/Calculator Usage (1)

(May be repeated, with change in topic and Departmental approval, up to a maximum of 3 credits.) An introduction to the use of computers or scientific calculators to solve problems arising in science, business, and mathematics.

Prerequisite: Departmental approval. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 171 - Elements of Precalculus (4)

The use of functions, graphs, and matrices to solve various applied problems. Geometry of linear, quadratic, logarithmic, and exponential functions.

Prerequisite: A grade of C (or better) in MAT 104 or placement by the Department of Mathematics. Requirement Designation: Required Core - Mathematical & Quantitative Reasoning.

MAT 172 - Precalculus (4)

Polynomial, rational, logarithmic, and trigonometric functions, with applications to problems in mathematics and the sciences.

Prerequisite: A grade of C (or better) in MAT 104 or placement by the Department of Mathematics and Computer Science. Requirement Designation: Required Core - Mathematical&QuantitativeReasoning. Offered: Fall-Spring.

MAT 173 - Intensive algebraic problem solving in preparation for successful calculus (1)

Intensive algebraic problem solving in preparation for successful calculus passing with a B or better allows student to take Mat 175.

Prerequisite: MAT 172. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 174 - Elements of Calculus (4)

(Not open to students majoring in MAT.) Differentiation and integration of elementary functions with applications to business, to social sciences, and to life sciences.

Prerequisite: A grade of C (or better) in MAT 171 or placement by the Department of Mathematics and Computer Science. Requirement Designation: Required Core - Mathematical&QuantitativeReasoning. Offered: Fall-Spring.

MAT 175 - Calculus I (4)

Differentiation of functions of one variable; applications to motion problems, maximum-minimum problems, curve sketching, and mean-value theorems.

Prerequisite: A grade of C (or better) in MAT 172 or a grade of C (or better) in both MAT 108 and MAT 171 or placement by the Department of Mathematics. Corequisite: MAT 155. Requirement Designation: Required Core - Mathematical&QuantitativeReasoning. Offered: Fall-Spring.

MAT 176 - Calculus II (4)

Riemann sums, logarithmic and exponential functions, integration of functions, applications of the definite integral, including area, volume, and arc length, infinite series and power series in one variable.

Prerequisite: A grade of C or better in MAT 175. Corequisite: MAT 156.. Requirement Designation: Required Core - Mathematical&QuantitativeReasoning. Offered: Fall-Spring.

MAT 180 - Voting and Polling Problems (1)

Different kinds of voting schemes in elections. Different kinds of "fairness" in voting. Sampling techniques in polling.

Prerequisite: Three years of Regents-level high school mathematics or MAT 104. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 181 - Number Systems (1)

Different types of numbers and different schemes for representing them. The base in a number system. Computer representation.

Prerequisite: Three years of Regents-level high school mathematics or MAT 104. Offered: Fall-Spring.

MAT 184 - Codes and Number Patterns (1)

Prime and composite numbers. Different kinds of codes, code breaking. Security and error detection.

Prerequisite: Three years of Regents-level high school mathematics or MAT 104. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 186 - Geometry and the Real World (1)

Geometric forms in the real world. Topics: symmetry, geometric solids, crystals and fractals.

Prerequisite: Three years of Regents-level high school mathematics or MAT 104. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 189 - Sets and Infinity (1)

Finite and infinite sets. Different orders of infinity. Paradoxes.

Prerequisite: Three years of Regents-level high school mathematics or MAT 104. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 192 - Statistical Inference (1)

Understanding statistics and judging the accuracy and relevance of statistical results.

Prerequisite: Three years of Regents-level high school mathematics or MAT 104. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 194 - Games and Puzzles (1)

The mathematical principles behind many games and puzzles.

Prerequisite: Three years of Regents-level high school mathematics or MAT 104. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 195 - Gambling and Games of Chance (1)

A study of gambling situations. Casino games. Probability and expected value.

Prerequisite: Three years of Regents-level high school mathematics or MAT 104. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 197 - Trees, Networks, Paths, and Flows (1)

Cycles, connectedness, the Koenigsberg bridge problem, minimum paths, and minimum spanning trees.

Prerequisite: Three years of Regents-level high school mathematics or MAT 104. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 199 - Topics in Elementary Mathematics (1)

Various mathematical topics of current interest.

Prerequisite: Three years of Regents-level high school mathematics or MAT 104. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 226 - Vector Calculus (4)

Vectors in two and three dimensions, equations of lines and planes, functions of several variables, partial differentiation, directional derivatives, gradients, optimization with Lagrange multipliers, multiple integration, line integrals, and vector fields.

Prerequisite: A grade of C or better in MAT 176. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 227 - Intermediate Vector Calculus (4)

A continuation of MAT 226. Taylor expansion in several variables, maximum and minimum problems, line integrals, Green's theorem, and introduction to differential equations.

Prerequisite: MAT 226. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 231 - Statistics for Biologists (4)

(Limited to BIO concentrators.) Basic probability theory, randomization, conditional probability and independence, binomial Poisson and normal distributions, testing statistical hypotheses, confidence and fiducial intervals, analysis of variance, Chi-square test of fit, correlation and linear regression, and selected topics in bioassay.

Prerequisite: MAT 175 and BIO 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 237 - Applications of Discrete Mathematics (4)

Concepts and applications of graph theory, recurrence relations, linear programming, game theory, difference equations, matrices, combinatorics, statistical inference, probability. Problem solving using mathematical modeling.

Prerequisite: MAT 176. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 300 - Mathematical Models in the Social Sciences (3)

This course is designed for students interested in the social sciences. Topics covered will be selected from elementary probability, theory of gambling, random walks, game theory and linear programming. Emphasis is placed on a descriptive treatment of mathematical material and its application to the social sciences.

Prerequisite: Either three years of high school math or MAT 172. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 301 - Applied Statistics and Computer Analysis for Social Scientists (3)

An elementary treatment of statistical concepts. Data analysis using standard statistical methods available in the Statistical Package for Social Scientists. Computations will be run on a computer. Interpretation and misinterpretation of computer output.

Prerequisite: MAT 132 and MAT 171. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 305 - Introduction to Topology (3)

Intuitive discussion of topological concepts and problems such as networks, map-coloring problems, one sided surfaces, topological transformations, Jordan curve theorem, winding numbers and zeros of polynomials, fixed point theorems, and dimension.

Prerequisite: MAT 226. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 313 - Elements of Linear Algebra (4)

Vector spaces, systems of linear equations, determinants, linear transformations, and matrices.

Prerequisite: MAT 176. Corequisite: With Departmental permission, MAT 176 may be taken as a COREQ. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 314 - Algebra and Number Systems I (4)

The syllabus of this course is continued in MAT 315. Algebraic structures such as groups, rings, and fields; their relations and applications to school and college mathematics, including the number systems of arithmetic and analysis.

Prerequisite: MAT 313. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 315 - Algebra and Number Systems- II (4)

Continuation of MAT 314. Further study of algebraic structures; polynomials; topics chosen from theory of equations; fields; field extensions; Galois theory; and ruler and compass constructions.

Prerequisite: MAT 314. Requirement Designation: Regular Liberal Arts.

MAT 316 - Theory of Numbers (4)

Study of problems concerning numbers and the properties of numbers such as divisibility, continued fractions, and congruences. Fermat's and Euler's theorems, quadratic residues and reciprocity law, elementary diophantine analysis, and introduction to algebraic numbers. Computer applications involving testing for primality and topics from coding theory.

Prerequisite: MAT 226 or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 320 - Analysis I (4)

The syllabus of this course is continued in MAT 321. Introduction to real analysis, the real number system, limits, continuity, differentiation, the mean value, and Taylor's theorems and applications. Riemann integration and improper integrals.

Prerequisite: MAT 226. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 321 - Analysis II (4)

Continuation of MAT 320. Infinite series and power series, pointwise and uniform convergence, n -dimensional Euclidean space, metric spaces, functions from \mathbb{R}^n to \mathbb{R}^m , continuity, and the differential as a linear map: inverse and implicit function theorems.

Prerequisite: MAT 320. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 323 - Ordinary Differential Equations (4)

Exact and approximate solutions of ordinary differential equations, existence theorems, and applications to problems in the physical sciences. Series solutions, Laplace transforms and Fourier analysis. Computer applications.

Prerequisite: MAT 226. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 327 - Statistical Inference (4)

Introduction to the ideas and methods of probability and statistical inference for students in mathematics and the sciences. Topics include confidence intervals, tests of significance, chi-square tests of goodness-of-fit and independence, regression analysis, and analysis of variance. Students will be introduced to a standard computer statistical package.

Prerequisite: MAT 176. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 328 - Techniques in Data Science (4)

Analyzing data sets to extract new insights. Acquisition, data mining, storage, and visualization of real world data using scripting and statistical programming languages. Application of standard statistical tools including hypothesis testing, Bayesian analysis, bootstrapping and regression. Classifying and clustering multidimensional data sets via dimensionality reduction and machine learning techniques.

Prerequisite: MAT 128 or departmental permission. Offered: Fall-Spring.

MAT 330 - Probability and Statistics (4)

Basic probability theory. Combinatorial problems, distributions, expectation, law of large numbers and central limit theorem, Bernoulli processes and Markov chains. Other topics from probability and statistics.

Prerequisite: MAT 176. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 335 - Applied Mathematics I (3)

The syllabus of this course is continued in MAT 336. Calculus of variations, Lagrange's and Hamilton's formulations for mechanics, wave and heat equations,

boundary-value problems, and solutions by separation of variables and special functions. Fourier series and integrals.

Prerequisite: MAT 226. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 336 - Applied Mathematics II (3)

Continuation of MAT 335. Existence and uniqueness theorems for initial value problems in ordinary differential equations. Green's function, and eigenvalue problems; control theory.

Prerequisite: MAT 335. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 340 - Foundations of Mathematics (3)

The nature of mathematical proof, basic logic, and set theory. A rigorous construction of the natural numbers within set theory, of the rational numbers, and of the real numbers via Dedekind cuts or their equivalent.

Prerequisite: MAT 226 or MAT 314. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 341 - Mathematical Logic I (3)

Propositional logic, logic with quantifiers, and with equality. Proof techniques such as Hilbert systems, tableaux, and others. Models, and the extent to which the notion of model embodies and generalizes the various structures studied by mathematicians. Godel's Completeness Theorem, and consequences such as Compactness and Lowenheim-Skolem Theorems. The incompleteness results of Tarski, Godel, and others.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 343 - History of Mathematics (4)

Study of the historical development of mathematics from ancient to modern times, including the contributions of underrepresented groups and diverse cultures.

Prerequisite: MAT 313. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 345 - Axiomatic Geometry (4)

Geometric theory from an axiomatic viewpoint motivated by Euclidean geometries and additional non-Euclidean examples. Emphasis on the relationship between proof and intuition.

Prerequisite: MAT 313. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 346 - Geometry (4)

Euclidean and non-Euclidean geometries approached from the points of view of axiomatics and transformation groups.

Prerequisite: MAT 314. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 347 - Game Theory and Linear Programming (3)

An introduction to the mathematical theory of games of strategy. Matrix games. Optimal strategies for zero-sum two-person games. Convex sets in Euclidean n -space, systems of linear inequalities, linear programming, and the simplex method. N person games and non-zero-sum games.

Prerequisite: One course in linear algebra. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 348 - Mathematical Methods for Management (4)

Conditions for optimization, classical inventory problems. Linear programming and its applications, including the transportation problem. Use of software packages for linear programming calculations. Probability, expectation, and risk. Portfolio selection. Stochastic processes and queues. Computer simulation of stochastic processes.

Prerequisite: MAT 174 or MAT 175, MAT 301 and CIS 211. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 349 - Operations Research (4)

Inventory theory, queuing theory, linear programming, integer linear programming, nonlinear programming, the transportation problem, network analysis, and applications to industrial models. Software packages for linear programming.

Prerequisite: MAT 313 and CMP 167. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 364 - Financial Mathematics (4)

Simple interest, compound interest, force of interest, time value of money, present and future values, level annuities, increasing and decreasing annuities, arithmetic and geometric progressions, loans and amortization, outstanding balance at any time, interest and principal payments at any time, price of a bond, immunization, interest rate swaps, stocks.

Prerequisite: MAT 176 Requirement Designation: Regular Liberal Arts.

MAT 413 - Advanced Linear Algebra (4)

Vector spaces, linear transformations, bilinear quadratic forms, tensors, forms and wedge products, finite and infinite dimensional linear algebra, eigenvalues, eigenvectors, introduction to Hilbert Spaces and eigenfunctions, all studied from an abstract, proof-oriented approach.

Prerequisite: MAT 313. Requirement Designation: Regular Liberal Arts.

MAT 417 - Cryptography (4)

Methods for transforming information into cryptic messages and for deciphering secret code. Review of selected topics in elementary number theory. Construction of linear, quadratic, and exponential ciphers, as well as key exchange protocols.

Prerequisite: MAT 313. Cross-Listed as: LEH CMP 417/MAT 417. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 422 - Theory of Functions of a Real Variable (4)

Real number system, measurable sets and functions, the Lebesgue integral, applications.

Prerequisite: MAT 320. Offered: Fall-Spring.

MAT 423 - Theory of Functions of a Complex Variable (4)

Algebra and geometry of complex numbers, analytic functions, elementary functions and conformal mapping. Cauchy integral theorem and applications. Taylor and Laurent series, calculus of residues, and classification of functions by singularities. Computer applications, including conformal mapping.

Prerequisite: MAT 320. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 424 - Partial Differential Equations and Applications (4)

Study of the wave equation, heat equation, and Laplace's equation with an emphasis on problems in one and two dimensions. Topics to include: harmonic functions and the Dirichlet problem, mixed boundary conditions and Fourier series, Fourier transform and convolution. Computer based projects.

Prerequisite: MAT 226. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 430 - Advanced Probability and Applications (4)

Continuation of MAT 330. Conditional probability, applications of Bayes' theorem; prominent examples of probability mass and density functions; moments and central moments, moment generating function, probability generating functions, joint and marginal distributions, linear combination of linearly independent random variables, and applications of the central limit theorem. A strong emphasis on applying theory to problem-solving.

Prerequisite: MAT 330 Requirement Designation: Regular Liberal Arts.

MAT 432 - Differential Geometry (4)

Metric spaces, Curves in Euclidian 3 space (E3): Curvature, torsion, fundamental theorem of ordinary differential equations, fundamental existence theorem for space curves. Surfaces in E3: geometry on a surface, Inverse Function Theorem, Implicit Function Theorem, and Gauss curvature. Coordinate charts, Fubini's Theorem, orientation and an introduction to Riemannian Geometry.

Prerequisite: MAT 313 and MAT 320. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 433 - Topology (4)

Sets, functions, metric spaces, topological spaces, neighborhoods, Hausdorff spaces, discrete spaces, continuity, connectedness, path connectedness, compactness, homeomorphisms, homotopy, simply connected spaces, locally simply connected spaces, fundamental groups and universal covers.

Prerequisite: MAT 314 and MAT 320. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 434 - Calculus on Manifolds (4)

Inverse and implicit function theorems, manifolds, differential forms, Fubini's theorem, partition of unity, integration on Chains, Stokes and Green's theorems, and an introduction to Riemannian geometry.

Prerequisite: One course each in linear algebra and advanced calculus. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 441 - Set Theory (4)

Axiomatic approach to the theory of sets. Relations, the axiom of choice, ordinal numbers, well-ordering, Zorn cardinal numbers and transfinite arithmetic, transfinite induction.

Prerequisite: Any two courses chosen from linear algebra, modern algebra, or advanced calculus. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 442 - Mathematical Logic (4)

Propositional logic, logic with quantifiers, and with equality. Proof techniques such as Hilbert systems, tableaux, and others. Models, and the extent to which the notion of model embodies and generalizes the various structures studied by mathematicians. Gödel's Completeness Theorem, and consequences such as Compactness and Löwenheim-Skolem Theorems. The incompleteness results of Tarski, Gödel, and others.

Prerequisite: Any two courses chosen from linear algebra, modern algebra, or advanced calculus. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 450 - Seminar in Algebra (3)

Selected topics from algebra and number theory. Students will be expected to make oral presentations and work with periodical literature.

Prerequisite: MAT 314. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 451 - Seminar in Geometry (3)

Selected advanced topics from Euclidean geometry. Students will be expected to make oral presentations and work with periodical literature.

Prerequisite: Either MAT 345 or MAT 346. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 456 - Topics in Mathematics (4)

(maximum 8 credits.) Various sections on topics in mathematics. (For specific topics and sections, consult the Department.)

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 464 - Advanced Financial Mathematics and Applications (4)

Continuation of MAT 364. Further study of cash flows and rates, arithmetic and geometric annuities, loans, retrospective and prospective methods, bonds, callable bonds, dollar and time-weighted rates of return, duration and convexity of a set of cash flows, spot rates, Redington immunization, interest rate swaps. A strong emphasis on applying theory to problem-solving.

Prerequisite: MAT 364 Requirement Designation: Regular Liberal Arts.

MAT 485 - Independent Study (3)

(maximum 6 credits.) Independent reading under faculty supervision.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MAT 486 - Independent Study (1)

(maximum 3 credits.) Not allowed as an elective for Mathematics or Computer Science concentrations.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MCS - Media Communications Studies**MCS 200 - Oral Communication (3)**

Principles of effective verbal and nonverbal communication as applied to personal and professional settings' whether in person or through the mass media of digital technologies.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MCS 210 - Global Cinema (3)

Introduction to international cinema focusing on traditional artistic influences, directors, cinematic constructs of national identity, historical context, culture, genres and interrelationships with global cinema.

MCS 214 - Introduction to Media and Digital Culture (3)

The history of media, technology theory, digital environments, print, images, photography, Film, HD, TV, radio, advertising, Internet and Web media.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MCS 220 - Introduction to Public Relations (3)

The history and practices of public relations and marketing; emphasis on domestic and international strategies, theories, the influence of media on public relations in crisis situations and damage control.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MCS 223 - Digital Marketing Strategies (3)

Theoretical and strategic perspectives on how new media technologies have fundamentally transformed marketing. The shift from one-way to two-way communication, and the online techniques-viral campaigns, social media, search engine optimization, web analytics-used to manage consumer interactions.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MCS 241 - Asian Cinema (3)

Narrative films from various Asian nations and cultures. Traditional artistic influences; cinematic constructs of national identity, historical context, and culture; role in global cinema.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MCS 244 - Communication in Society (3)

Role of media in the formation of identity, political opinion, subjectivity (racial, gender and sexual), celebrity, and ethics. Distinctions between interpersonal and mediated communication

Cross-Listed as: LEH SPE 160/COM 240. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MCS 300 - Corporate Communication (3)

Elements of communication in the current corporate environment, including public, community, employee, and government relations.

Prerequisite: MCS 220. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MCS 305 - Persuasion (3)

The direct and indirect influence of mass media (advertising, television, the web, and social networks) on thoughts, attitudes, and behavior. Principles of persuasion such as attraction, authority, celebrity, social influence, and their uses and misuses in society.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MCS 307 - Media Industries I (3)

Contemporary media industries, including print, broadcast, and new media. Particular attention to the economic and social conditions influencing industrial configurations and outputs, and vice versa.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MCS 308 - Media Industries II (3)

Evolution of the media industry as practiced by media technologists, theorists, artists, authors, and programmers. Topics include interactivity, virtual reality, censorship, net neutrality, and emerging publishing platforms.

Prerequisite: MCS 307. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MCS 319 - Evolution of Television (3)

The evolution of TV from its American origins to its current status as a global phenomenon. Areas of study include genres, studio structures, fictional vs. non-fictional TV, multicultural and global TV, and comparative study of international television programming.

Prerequisite: FTS 212. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MCS 332 - African American Media (3)

Analysis of the African American media's role in U.S. history and culture.

Cross-Listed as: LEH AAS 332/MCS 332. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MCS 333 - Public Relations and Marketing (3)

Mastering the appropriate formats needed to write the releases, reports, and advertising media generated by for- and non-profit organizations.

Prerequisite: Department permission. Cross-Listed as: LEH ENW 333/MCS 333. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MCS 334 - The Documentary (3)

History of documentary film and the various types of film within the genre, e.g., propaganda, autobiographical, informational, industrials and rockumentary.

Prerequisite: Either FTS 212 or FTS 213. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MCS 335 - Media Relations (3)

Media relations as an industry, business, and career, focusing on how news is created and disseminated and on what role public relations plays in the American media. Creation of

professional press releases and promotion of newsworthy stories across print, broadcast, and multimedia outlets.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MCS 347 - Advertising (3)

Basic elements of advertising copywriting for various media formats. Introduction to advertising research, including the development of message structure and advertising strategies.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring-Summer.

MCS 350 - Topics in Media Communications Studies (3)

Topics include contemporary issues such as new trends in public relations, advertising, evolution of media industries, global issues in international agreements.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MCS 351 - The Anthropology of Media (3)

Anthropological approaches to media production and consumption. The uses of media in the construction of local, national, and transnational identities.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MCS 353 - Latino Media (3)

Topics vary from semester to semester.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MCS 359 - The Thought Persuaders (3)

The sensory and cognitive influence of popular culture, the entertainment industry, fashion, style, popular culture, graphics, and fads on media consumers.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MCS 366 - Technology and Communications (3)

Influence and impact of advances in technology on interpersonal and mass communications. Historical development of language and writing from the printing press to the Internet and beyond.

Prerequisite: MCS 244. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MCS 417 - Broadcast Programming (3)

The roles of the public, government, advertisers, stations, and networks in influencing radio, and TV content.

Prerequisite: MCS 214. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MCS 418 - Mass Media and Public Policy (3)

Intensive study of selected problems of public policy in mass communication.

Prerequisite: MCS 214. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MCS 481 - Independent Project in Media Communications Studies (3)

Individual capstone project under the direction of a faculty member.

Prerequisite: Department permission.

MCS 491 - Honors Tutorial in Media Communications Studies (3)

The senior honors capstone project, consisting of individual research, reading, and writing supervised by a faculty mentor.

Prerequisite: 90 college credits, 3.5 GPA in the major, and department permission. Corequisite: COREQ: MCS 492.

MCS 492 - Honors Colloquium for Media Communications Studies (1)

Weekly gathering of seniors doing independent honors capstone projects with a faculty mentor. Discussion of critical and creative ideas, modes of research, deadlines and progress, editing and revising.

Prerequisite: 90 college credits, 3.5 GPA, and department permission. Corequisite: COREQ: MCS 491.

MES - Middle Eastern Studies

MES 202 - Advanced Hebrew (3)

Sections from ancient, medieval, and modern texts; intensive review of grammar; and practice in oral and written composition.

Prerequisite: Either HEB 102, three years of high school Hebrew, or equivalent. Cross-Listed as: LEH HEB 202/MES 202. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MES 231 - Selected Studies in Societies and Cultures: Middle East (3)

Description and analysis of the area's distinctive ecological, economic, socio-political, and ideological systems.

Cross-Listed as: LEH ANT 231/MES 231. Offered: Fall-Spring.

MES 245 - Introduction to Middle Eastern Studies (3)

An introduction to the Middle East viewed through a variety of lenses and disciplinary tools, including history, anthropology, sociology, political science, and literature.

Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

MES 249 - Islamic Civilization (3)

The formation and diffusion of Islamic civilization during the medieval and early modern period in Anatolia, the Balkans, Africa, and South Asia.

Cross-Listed as: LEH HIS 249/MES 249. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MES 295 - Middle East: A Regional Geographic Perspective (3)

Physical, cultural, and human geography and environmental issues of the Middle East from antiquity to present.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MES 301 - Ottoman History (3)

Political, socio-economic, and cultural history of the Ottoman Empire from its fourteenth-century beginnings to its demise at the end of World War I.

Cross-Listed as: LEH HIW 301/MES 301. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MES 302 - Modern Middle Eastern History (3)

Societies and politics of the Middle East in the nineteenth and twentieth centuries. Topics include the Islamic and Ottoman legacies; reforms and reforming elites; changing roles of religion; nationalist ideologies; Great Power intervention; regional politics; and the Arab-Israeli conflict.

Cross-Listed as: LEH HIW 302/MES 302. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MES 303 - Contemporary Islamic Movements (3)

Contemporary movements of Islamic resurgence and activism in the Middle East, North Africa, Central and South Asia, and beyond.

Cross-Listed as: LEH HIW 303/MES 303. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MES 304 - History of Women and Society in the Islamic Middle East (3)

Women in the Middle East from the advent of Islam to the present. Legal and cultural constructions and social dynamics of marriage, sexual morality, women's access to property, participation in production, and use of space.

Cross-Listed as: LEH HIW 304/WST 304/MES 304. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MES 305 - The Arab-Israeli Conflict (3)

The Arab-Israeli conflict from the late nineteenth century to the present; political, military, diplomatic, economic, cultural, and psychological dimensions.

Cross-Listed as: LEH HIW 305/MES 305. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MES 325 - Society, Economy, and Polity in the Middle East (3)

Analysis and evaluation of the interactions among these three spheres of human activity as they pertain to the Middle East.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MES 326 - Cultural Foundations of Modern Israel (3)

Study in depth of the ethos of modern Israel; extensive readings from related literary, philosophical, and publicistic writings that have shaped the new social and spiritual forms in the State of Israel.

Cross-Listed as: LEH HCU 326/MES 326. Offered: Fall-Spring.

MES 327 - The Modern Hebrew Novel (3)

Intensive study of a major novel of Agnon, Barash, Burla, or Hazaz, with collateral readings in other Hebrew novels.

Cross-Listed as: LEH HEB 327/MES 327. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MES 328 - Politics of Gender and Sexuality in the Middle East (3)

Political and social institutions that shape the dynamics of gender and sexuality in the Middle East & North Africa (MENA).

Cross-Listed as: LEH MES 328/POL 328/SOC 328.

MES 334 - Political Systems in the Middle East (3)

Domestic institutions and foreign policies of selected nations in the Middle East.

Cross-Listed as: LEH MES 334/POL 334. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MES 338 - Islamic Art (3)

The art of Islamic peoples from Spain and North Africa to India and Central Asia; its sources and extensions.

Cross-Listed as: LEH ARH 338/MES 338. Offered: Fall-Spring.

MES 350 - Topics in Middle Eastern History, Society, Politics, and Culture (3)

Intensive study of selected aspects of Middle Eastern history, society, politics, and culture. Topic to be announced each semester.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MHC - Macaulay Honors College

MHC 350 - The Arts in New York City (3)

Interdisciplinary study based on performances and exhibitions in the arts, using New York City's cultural institutions as resources for aesthetic experiences and opportunities for research, interpretation, and creative work. Intersections among cultural events in the city and academic readings and writings. The nature of narrative as it is expressed in literature as well as in various other media: opera, popular music, dance, theater, and pictorial art; high as well as folk art, classical as well as contemporary forms.

Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

MHC 351 - The Peopling of New York City (3)

Students investigate the role of immigration and migration in shaping the city's identity past, present, and future. Topics include the factors that have driven and drawn people to New York since the seventeenth century; the different ways that religion, race, gender, and ethnicity have shaped immigrant encounters with the city; the formation and social organization of well-known immigrant communities such as the Five Points, the Lower East Side, Little Italy, Harlem, Chinatown, Astoria, Flushing, and East Flatbush; the impact of newcomers on urban culture and politics; and the continuing debates over assimilation and Americanization.

Prerequisite: Department Consent Required Requirement Designation: Flexible Core - US Experience in its Diversity. Offered: Fall-Spring.

MHC 352 - Science and Technology in New York City (3)

Scientific and technological topics that have had an impact on contemporary New York; environmental issues in New York City and communication techniques required to present these issues; the scientific method, energy, spatial and temporal localization of environmental issues, epidemiology, Internet, visualization and mapping.

Requirement Designation: Flexible Core - Scientific World. Offered: Fall-Spring.

MHC 353 - Shaping the Future of New York City (3)

Interdisciplinary seminar on planning for the future of New York City.

Prerequisite: Department Consent Required Requirement Designation: Flexible Core - Individual and Society. Offered: Fall-Spring.

MHC 354 - Honors English: Composition and Style (3)

Interdisciplinary seminar on the study of grammar and syntax of selected important authors and their application to composition.

Requirement Designation: Required Core - English Composition. Offered: Fall-Spring.

MHC 355 - Research Seminar (3)

(maximum 6 credits). Interdisciplinary capstone project seminar in research methods.

Prerequisite: Permission of director or instructor. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MHC 356 - Special Topics in Culture and Society (3)

May be taken for a maximum of 9 credits (3 different topics). Interdisciplinary seminar in cultural studies.

Prerequisite: Permission of Director or instructor.

Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

MHC 357 - Special Topics in Politics, Philosophy and Economics (3)

May be taken for a maximum of 9 credits (3 different topics). Interdisciplinary seminar in politics, philosophy, and economics. Permission of Director or instructor.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MIX - Mixtec

MIX 111 - Elementary Mixtec I (3)

Elements of grammar, reading of simple texts, and practice in speaking. Note: For students with no prior knowledge of Mixtec.

MIX 112 - Elementary Mixtec II (3)

Elements of grammar, reading of simple texts, and practice in speaking. Note: For students with no prior knowledge of Mixtec.

MSH - Music History

MSH 114 - Introduction to Music (3)

History of Western music through the study of various complete works. Focus on the skills and perspectives needed for informed listening.

Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

MSH 115 - World Music (3)

Ethnomusicology as the intersections of music and culture, with focus on non-Western music.

Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

MSH 200 - Introduction to Music History and Culture (3)

A multidisciplinary introduction to music as an academic discipline exploring the place of music in human culture and

in particular societies, past and present, Western and global. Students examine musical concepts across time and space, including meter, harmony, melody, and form. Emphasis on critical writing about music.

Prerequisite: MST 100 or its equivalent; ability to read music. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MSH 228 - The Literature of Music: Orchestral Music (3)

Orchestral Music.

Prerequisite: MSH 114. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MSH 229 - The Literature of Music: The Concerto (3)

The Concerto.

Prerequisite: MSH 114. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MSH 230 - The Literature of Music: Choral Literature (3)

Choral Music.

Prerequisite: MSH 114. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MSH 231 - The Literature of Music: Chamber Music (3)

Chamber Music.

Prerequisite: MSH 114. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MSH 232 - The Literature of Music: The Art Song (3)

The Art Song.

Prerequisite: MSH 114. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MSH 233 - The Literature of Music: Piano Music (3)

Piano Music.

Prerequisite: MSH 114. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MSH 234 - Opera: 1600 to 1830 (3)

Opera: 1600-1830.

Prerequisite: MSH 114. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MSH 235 - Opera: 1830 to Twentieth Century (3)

Opera: 1830 to Twentieth Century.

Prerequisite: MSH 114. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MSH 236 - The Operas of Mozart (3)

Operas of Mozart.

Prerequisite: MSH 114. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MSH 237 - The Operas of Wagner (3)

Operas of Wagner.

Prerequisite: MSH 114. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MSH 238 - Twentieth-Century Opera (3)

Twentieth Century Opera.

Prerequisite: MSH 114. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MSH 239 - Italian Opera (3)

Italian Opera.

Prerequisite: MSH 114. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MSH 245 - The American Musical Experience (3)

History of music in America, with focus on popular, jazz, folk, and religious music, as well as contemporary compositions and musical theater.

Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

MSH 250 - Master Composers (3 (maximum 6 credits))

The work of a single major composer.

Prerequisite: MSH 114. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MSH 266 - Folk and Traditional Music (2)

The traditional music of Europe, Africa, and the Orient. Special emphasis will be placed on the folk literature of the Americas.

Prerequisite: MSH 114. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MSH 269 - Jazz: Literature and Evolution (3)

The origins and development of jazz before 1950; cross influence with concert music. Contemporary trends, such as "soul" and rock.

Prerequisite: MSH 114 or MST 236 (or equivalent).

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MSH 270 - Jazz: Literature and Evolution since 1950 (3)

Development and literature of jazz since 1950 and its cross-influence with popular trends such as rock.

Prerequisite: MSH 114 or MST 236, or equivalent.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MSH 280 - Entrepreneurship in the Music Industry (3)

Examination of current issues and practices in the music and entertainment industries. Topics will include copyright, intellectual property rights, business, and marketing practices.

Requirement Designation: Regular Liberal Arts.

MSH 331 - Music of the Middle Ages and Renaissance (3)

Western music from 900 to 1600. Topics include the history of notation, the emergence of polyphony, and issues of performance practice.

Prerequisite: MSH 200; MST 100 or its equivalent; ability to read music. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MSH 332 - Music of the Baroque and Classical Eras (3)

Western music from 1600 to 1810. Topics include the development of opera and other major genres including the cantata, oratorio, concerto, sonata, and symphony. Attention to issues of performance practice.

Prerequisite: MSH 200; MST 100 or its equivalent; ability to read music. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MSH 333 - Music of the Romantic and Early Modernist Eras (3)

Western music from 1810 to 1945. Topics include the influence of Romanticism on musical forms and styles; the continued development of such genres as the Lied, opera, and symphonic music; the rise of nationalistic schools; late Romantic disintegration of the Classical-Romantic tradition; the emergence of musical Modernism, atonality, and dodecaphony.

Prerequisite: MSH 200; MST 100 or its equivalent; ability to read music. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MSH 334 - Music Since 1945 (3)

Western music from 1945 to the present. Topics include such major artistic movements of the period as Modernism, Serialism, and Minimalism. Attention to issues of notation and performance. Various topics in American music, including Jazz, "Third Stream," and musical theatre.

Prerequisite: MSH 200; MST 100 or its equivalent; ability to read music. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MSH 335 - Defining Moments in Film Scoring History (3)

A survey of film music composition from 1900 to the present.

Prerequisite: MSH 200 or department permission (ability to read music is required for department permission). Requirement Designation: Regular Liberal Arts.

MSH 350 - Topics in Ethnomusicology (3 (maximum 6 credits))

Selected musical cultures of the world. Emphasis on the musical forms, instruments, tonal material, and the role of music in particular societies. Critical attention to the principal concepts and methods used in ethnomusicology.

Prerequisite: MSH 200; MST 100 or its equivalent; ability to read music. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MSH 369 - History of Jazz (3)

A survey of the history of Jazz and Latin music from its beginnings to the present.

Prerequisite: MSH 200. Offered: Fall-Spring.

MSH 370 - American Popular Music (3)

A study of the major styles of American popular music of the 20th and 21st centuries, including, but not limited to, Blues, Gospel, Soul, Rock, R&B, Hip Hop, and Musical Theater.

Prerequisite: MSH 200. Offered: Fall-Spring.

MSP - Music Performance

MSP 100 - Chorus (1 (can be repeated to a maximum 8 credits))

(Open to any student with the ability to participate in group singing.) The study and public performance of selected works. Emphasis on basic choral techniques.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 166 - Strings I (1 (can be repeated to a maximum of 4 credits))

Bowing and the positions, practice in reading simple compositions, and care of instruments. No previous knowledge of a string instrument required.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 167 - Strings II (1 (can be repeated to a maximum of 4 credits))

Continued study to provide elementary facility on string instruments.

Prerequisite: MSP 166 (or equivalent). Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 168 - Woodwinds I (1 (can be repeated to a maximum of 4 credits))

Breathing, tone production, and fingering. Principles underlying construction of woodwind instruments. Practice in simple ensemble music. Care of instruments. No previous knowledge of a woodwind instrument required.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 169 - Woodwinds II (1 (can be repeated to a maximum of 4 credits))

Continued study to provide elementary facility on woodwind instruments.

Prerequisite: MSP 168 (or equivalent) Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 170 - Brass I (1 (can be repeated to a maximum of 4 credits))

Breathing, tone production, and fingering. Acoustic principles governing techniques of brass instruments. Practice in simple ensemble music. Care of instruments. No previous knowledge of a brass instrument required.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 171 - Brass II (1 (can be repeated to a maximum of 4 credits))

Continued study to provide elementary facility on brass instruments.

Prerequisite: MSP 170 (or equivalent). Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 172 - Percussion (1 (can be repeated to a maximum of 4 credits))

The performance techniques of tuned and untuned percussion instruments. Group exercises in rhythm and work in percussion ensemble.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 185 - Guitar 1 (1 (can be repeated to a maximum of 4 credits))

Basic accompaniment patterns, chords, melody playing, simple songs, etudes, beginning to read music, understanding of rudimentary harmony.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 186 - Guitar 2 (1 (can be repeated to a maximum of 4 credits))

Continued study and practice of guitar with focus on reading, technique, and ensemble playing.

Prerequisite: MSP 185 or permission from the instructor. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 190 - Group Piano 1 (1 (maximum 4 credits))

A piano course for beginners. No previous piano knowledge required.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 191 - Group Piano 2 (1 (maximum 4 credits))

A piano course for intermediate players. This course is a continuation of MSP 190 (Group Piano 1).

Prerequisite: MSP 190 and Department permission. Offered: Fall-Spring.

MSP 192 - Group Piano 3 (1 (maximum 4 credits).)

A piano course for advanced players. This course is a continuation of MSP 1910/191 (Group Piano 2).

Prerequisite: MSP 1910 or MSP 191 or permission of the instructor. Offered: Fall-Spring.

MSP 200 - Guitar Ensemble (1)

Development of skills in ensemble playing in a setting that exposes the student to the various roles guitar players are expected to master. Musical literacy is stressed.

Prerequisite: Departmental permission. Requirement Designation: Regular Non-Liberal Arts.

MSP 201 - The College Choir (1 (maximum 8 credits).)

(Open to all qualified students, faculty, staff, and members of the community.) The study and performance of major choral works.

Prerequisite: Instructor's permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 202 - The Chamber Choir (1 (maximum 8 credits).)

(Open to all qualified students, faculty, staff, and members of the community.) Study and performance of choral works in the smaller forms.

Prerequisite: Instructor's permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 203 - Concert Band (1 (maximum 8 credits).)

(Open to all qualified students, faculty, staff, and members of the community.) The study and performance of Concert Band repertoire.

Prerequisite: Instructor's permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 204 - Orchestra (1 (maximum 8 credits).)

The study and performance of orchestral works.

Prerequisite: Instructor's permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 205 - Ensemble for Voices and/or Instruments (1 (maximum 8 credits).)

A study of chamber music through rehearsals and performance of representative works in various styles.

Prerequisite: Instructor's permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 207 - Jazz Band (1 (can be repeated to a maximum 8 credits))

Study and performance of Jazz Band repertoire.

Prerequisite: Instructor's permission. Requirement Designation: Regular Non-Liberal Arts.

MSP 208 - Percussion Ensemble (1 (maximum 8 credits).)

The study and performance of ensemble music for percussion instruments, including contemporary classical and global repertoires.

Prerequisite: The ability to read music and mastery of basic percussion techniques. Offered: Fall-Spring.

MSP 209 - Latin Band (1 credit (maximum 8 credits).)

(Open to all qualified students, faculty, staff, and members of the community.) The study and performance of Latin Band repertoire.

Prerequisite: Instructor's permission. Requirement Designation: Regular Non-Liberal Arts.

MSP 210 - Instruction in Principal Instrument or Voice Private Instruction (1 (maximum 8 credits))

Intensive study of one instrument or voice. Instruction with a member of the Music faculty.

Prerequisite: Department Permission. Student must be a declared music major Co-requisites depend on the area of study: Voice: minimum of 2 semesters of either MSP 100, MSP 201, or MSP 202. Violin, viola, cello, acoustic bass: minimum of 2 semesters of MSP 204. Woodwinds or brass: minimum of 2 semesters of either MSP 203 or MSP 204. Piano: minimum of 2 semesters from either MSP 100, MSP 201, MSP 202, MSP 205, MSP 207, or MSP 209. Percussion: minimum of 2 semesters of either MSP 203, MSP 204, MSP 207, MSP 208, or MSP 209. Guitar: minimum of 2 semesters of either MSP 100, MSP 200, MSP 201, MSP 202, MSP 205, MSP 207, or MSP 209. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 225 - Singing for the Stage (1)

Fundamentals of singing, lyric text interpretation, musicianship, style, and their application in the performance of selected vocal repertoire for stage performance.

Requirement Designation: Regular Non-Liberal Arts.

MSP 226 - Voice and Diction 1 (1)

Fundamentals of diction in Italian, Latin and German, text interpretation, style, and its application in the performance of selected vocal repertoire.

Prerequisite: Departmental permission; ability to read music. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 227 - Voice and Diction 2 (1)

Fundamentals of diction in French, Spanish and English, text interpretation, style, and its application in the performance of selected vocal repertoire.

Prerequisite: Departmental permission; ability to read music. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 230 - Piano for Music Teachers (2)

Development of piano skills for K-12 music teachers, including keyboard harmony, transposition, and sight-reading.

Prerequisite: MSP 190 or demonstration of basic keyboard skills; departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 246 - Instrumental Laboratory Ensemble (1)

The study and performance of a wide variety of ensemble music without preparation for public concerts. A systematic survey, through performance, of elementary and intermediate music for band and orchestra.

Prerequisite: PREREQ: Either instructor's permission or completion of at least one of the following: MSP 166, MSP 168, or MSP 170. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 340 - Instrumental Music Methods (3)

Techniques and tone production of instruments. Designed to prepare the student for the development and direction of school ensembles and instrumental classes.

Prerequisite: MSP 166, MSP 168, and MSP 170. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 445 - Conducting (3)

Principles of conducting; techniques of the baton, interpretation, repertoire, and score reading.

Prerequisite: MST 239 or Department permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MSP 446 - Conducting (3)

Advanced principles of conducting; techniques of the baton, interpretation, repertoire, and score reading.

Prerequisite: MSP 445. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

MST - Music Theory**MST 100 - Fundamentals of Music Theory (3)**

Elements of music notation, the structure of scales and chords and the study of melodic, rhythmic, and harmonic techniques using both folk and composed material. No previous musical experience is required. This course will not be credited toward any Music major.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 181 - Electronic Music I (3)

Functional techniques of recording and editing; generating and mixing electronic sounds.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 182 - Electronic Music II (3)

The production of electronic tape compositions.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 221 - Fundamentals of Film Music (3)

Trends and events in film music history, techniques of film scoring, and the technical process of synchronization between music and picture.

Offered: Fall-Spring.

MST 236 - Theory I (3)

Introduction to diatonic harmony: scales, intervals, triads, key signatures, and the principles of four-part choral and keyboard writing.

Prerequisite: Knowledge of music rudiments established by placement exam or MST 100. Corequisite: MST 266.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 237 - Theory II (3)

Continued study of diatonic harmony: including voice-leading, seventh chords, figured bass, and inversions.

Prerequisite: MST 236. Corequisite: MST 267. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 238 - Theory III (3)

Introduction to chromatic harmony: including secondary dominants, borrowed chords, and modulation.

Prerequisite: MST 237. Corequisite: MST 268. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 239 - Theory IV (3)

Continued study of chromatic harmony: including distant modulations, Neapolitan and Augmented 6th chords. Introduction to species counterpoint.

Prerequisite: MST 238. Corequisite: MST 269. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 242 - Introduction to the Structure and Literature of Music II (3)

Continued analytical study of the elements of music style, texture, and form, as represented in the principle genres characteristic of various periods as preparation for the study of music history.

MST 245 - Introduction to Music Therapy (3)

Music as a therapeutic medium to meet communicative, cognitive, emotional, sensory-motor, perceptual-motor, and psychological needs in children, adolescents, and adults. The

impact of music on behavior in special education, in rehabilitation programs, and for general health and wellness.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 246 - Music and the Brain (3)

The relationship between music and the brain, as perceived by both the hard and social sciences. Particular attention to the psychological, sociological, and cultural dimensions of music, and its implications for music therapy. Readings from a wide range of literary and scientific sources.

Offered: Fall-Spring.

MST 266 - Musicianship I (1)

Progressive development of basic musical skills through sight-singing, dictation, and other aural exercises.

Corequisite: MST 236. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 267 - Musicianship II (1)

A continuation of MST 266.

Prerequisite: MST 266 Corequisite: MST 237. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 268 - Musicianship III (1)

A continuation of MST 267.

Prerequisite: MST 267 Corequisite: MST 238. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 269 - Musicianship IV (1)

A continuation of MST 268.

Prerequisite: MST 268 Corequisite: MST 238. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 312 - Fugue I (3)

Techniques of fugal composition.

Prerequisite: MST 239. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 313 - Fugue II (3)

Advanced study of fugal composition.

Prerequisite: MST 312 (or equivalent). Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 315 - Orchestration I (3)

Score reading; the instruments of the orchestra and the band and practice in scoring for various groups.

Prerequisite: MST 237 or Department permission.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 316 - Orchestration II (3)

Further study in score reading. Advanced practice in scoring for various groups.

Prerequisite: MST 315 (or equivalent). Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 317 - Form and Analysis I (3)

Concepts and techniques of musical analysis including melodic, harmonic, rhythmic, and textural analysis. Binary, ternary, sonata-allegro, variation and fugal forms will be studied, as well as forms used in popular and some non-Western music. Historical and theoretical approaches to musical analysis including Ramellian, Schenkerian and set-theoretic analysis will be introduced.

Prerequisite: MST 238 or Department permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 318 - Form and Analysis II (3)

Continued study of Common Practice Forms and the varieties of twentieth-century harmonic practice. Current theoretical and techniques of musical analysis, including computer-assisted analysis.

Prerequisite: MST 317 or Department permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 319 - Composition I (3)

Composition in various types and forms of music; practice in free composition.

Prerequisite: Instructor's permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 320 - Composition II (3)

Advanced study of composition, with emphasis on instrumental combinations.

Prerequisite: MST 319 and MST 315 and instructor's permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 321 - Creating Music with Computers (3)

Creating music using current digital software and hardware tools. Use of computer-based digital audio workstations (DAWs) to compose, arrange and produce a variety of musical projects.

Prerequisite: MST 236 and Departmental Permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 322 - Recording Techniques and Studio Production (3)

Recording, editing, and mixing digital audio and MIDI, as well as techniques commonly used in film scoring.

Prerequisite: MST 236 and Departmental Permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 323 - Scoring for Media (3 (can be repeated to a maximum 6 credits).)

A hands-on studio course for musicians who wish to learn the basics of writing and producing original musical scores for media projects

Prerequisite: Instructor's permission. Offered: Fall-Spring.

MST 335 - Advanced Ear Training (3)

Ear training, singing, rhythmic exercise and dictations.

Prerequisite: MST 269 or Instructor's permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

MST 370 - Music Internship (3 (may be repeated once with Departmental approval).)

Supervised work in a musical institution. Experiences may include: production, rehearsals, education, management, and marketing.

Prerequisite: Satisfactory completion of 60 college credits, 12 of which must be in Music, and Departmental approval. Offered: Fall-Spring.

MST 371 - Practicum in Music Therapy (1 (may be repeated up to 3 credits).)

Supervised placement in a clinical setting. Observation of a client or group of clients and with physical or mental disabilities and their improvement through the use of music therapy.

Prerequisite: MST 245, MST 246, and departmental permission; students must have completed at least 60 credits before beginning the practicum. Offered: Fall-Spring.

MST 485 - Independent Studies in Music (1 (may be repeated to a maximum of 9 credits).)

Individual projects in an appropriate field, under faculty supervision.

Prerequisite: Departmental permission. Offered: Fall-Spring.

MST 496 - Senior Project (3)

Advanced study in an area of music performance or scholarship. Independent study under the direction of a faculty mentor. Appropriate projects include an academic thesis in musicology or music theory, a recital on an instrument or voice, a musicianship or music education project or portfolio, or a musical composition.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

NSS - Natural and Social Sciences

NSS 150 - Introduction to Scientific Research (1)

Recommended for second semester freshman and sophomore students (both incoming freshman and transfer students)

interested in laboratory-based research in the sciences. Introduction to scientific research methods and techniques, research ethics and the importance of keeping a clear and detailed notebook. The course will include a series of presentations by the instructor and research active faculty, graduate student researchers and current research students from Lehman College.

Prerequisite: Department Permission. Requirement Designation: Regular Liberal Arts.

NSS 160 - Research Shadowing Experience (1)

Allows a student to shadow a faculty member, research student or current research scholar (at any level) over a 14-week period during the semester or a 6-week period during the summer. Not credited towards major or minor.

Prerequisite: Department Permission. Requirement Designation: Regular Non-Liberal Arts.

NSS 200 - Biomedical Research and Career Seminar (1 (may be repeated for a maximum of 4 credits))

For students in the Research Initiative for Scientific Enhancement (RISE) programs, although open to all qualified students. NSS 200 will focus on activities that help prepare students for success in graduate school and in a scientific career with a specific focus on Biomedical research. This course is designed as a combination “workshop” and “seminar” with alternating biweekly workshop activities and invited speakers who present their research from different scientific disciplines. RISE scholars are required to enroll each semester in the seminar as part of the condition of remaining as a RISE scholar.

Prerequisite: CHE 166 and CHE 169, BIO 166 and BIO 167, and permission by course instructors, who are faculty members of the RISE program. Requirement Designation: Regular Liberal Arts.

NSS 350 - Pre-Professional Seminar (1 (course may be repeated for a total of 2 credits))

This course is designed for students preparing to apply to programs in the health professions. It will consist of a series of workshops, including topics such as study skills, personal statement writing and mock interviews, presentations by Lehman alums currently attending schools of the health professions, and presentations by experts in the health professions.

Prerequisite: Permission by NSS. Requirement Designation: Regular Non-Liberal Arts.

NSS 352 - The Medical School Admissions Process (3)

Study of the medical school admissions process, including the role of personal statements, standardized testing, clinical experience, professional accomplishments, and distinctiveness, as well as factors such as when in an

admissions cycle an application is submitted. Particular attention will be given to the Medical College Admissions Test (MCAT), including how topics are selected for inclusion, analysis of question format, and strategies for successful test performance including development of effective plans of study.

Prerequisite: Permission by NSS. Requirement Designation: Regular Liberal Arts.

NSS 470 - Science Internship (5)

15 hours per week and a biweekly conference. The course may be repeated once under special circumstances and with the approval of the Internship Committee. Grading will be Pass/Fail. Student interns in the natural and social sciences departments will undertake supervised work or research in selected public or private institutions for which their studies and skills equip them. For example, The Bronx Zoo and the American Museum of Natural History would be possible host institutions for students in biology or anthropology.

Prerequisite: Satisfactory completion of 75 college credits, recommendation by a faculty member, and approval by an advisory and screening committee to be appointed by the Dean of Natural and Social Sciences. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

NUR - Nursing

NUR 240 - Death, Dying, and Bereavement (3)

Sociological, psychological, and health care perspectives and ethical issues surrounding the processes of dying and bereavement. Topics include: the history of attitudes toward death, the new medical technology, the ways individuals confront their own death and that of others, dying in institutions, death and the child, and suicide.

Cross-Listed as: LEH NUR 240/SOC 240. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

NUR 300 - Nursing as a Human Science (3)

Historical, philosophical and theoretical foundations of nursing and selected topics relating to the intersubjective nature of professional nursing and its moral, ethical and legal dimensions.

Prerequisite: Admission to the Nursing major. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

NUR 301 - Therapeutic Intervention I: Introduction to Professional Nursing Practice (6)

Emphasis on therapeutic communication, health assessment and data analysis.

Prerequisite: PREREQ or COREQ: HIN 269. Corequisite: NUR 300, NUR 344. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

NUR 302 - Ways of Knowing in Nursing (3)

Methods of research and inquiry in nursing and their implications for clinical practice.

Prerequisite: PREREQ or COREQ: NUR 300. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

NUR 303 - Therapeutic Intervention II: Adult Health Nursing (6)

Clinical focus on nursing care of adults with acute and chronic illnesses.

Prerequisite: NUR 300, NUR 301, NUR 344, HIN 269. Corequisite: NUR 304, NUR 330. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

NUR 304 - Therapeutic Intervention III: Psychiatric-Mental Health Nursing (3)

Clinical focus on nursing care of adults with acute and chronic psychiatric and mental health conditions.

Prerequisite: NUR 300, NUR 301, NUR 344, HIN 269. Corequisite: NUR 303, NUR 330. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

NUR 330 - Pharmacologic Basis of Nursing Practice (3)

General pharmacological principles as they relate to nursing practice and health care.

Corequisite: NUR 303. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

NUR 344 - Altered Health States (3)

The relationships of normal body functioning and other physiological changes that occur as a result of illness. Epidemiological, preventive, and pathological aspects of disease.

Prerequisite: Department Consent Required Corequisite: NUR 301. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

NUR 350 - Topics in Nursing (3)

(maximum 6 credits). See Department for Description.

Prerequisite: 45 credits in Nursing and permission of the Chair. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

NUR 400 - Professional Nursing Practice (6)

Health assessment and therapeutic intervention through communication theory and skills, interprofessional collaboration and professional role development.

Prerequisite: PREREQ or COREQ: NUR 300, NUR 302, and HIN 269. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

NUR 405 - Therapeutic Intervention IV: Childbearing and Childrearing Families (6)

Relation of nursing care to positive health experiences and outcomes in childbearing and childrearing families.

Prerequisite: NUR 303, NUR 304, NUR 330. Corequisite: NUR 302, NUR 406. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

NUR 406 - Clinical Decision Making (3)

The processes of clinical judgment and decision-making. Examination of the interaction between diagnostic and therapeutic reasoning within the context of ethical reasoning.

Prerequisite: NUR 303 or NUR 400. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

NUR 408 - Trends and Issues in Nursing and Health Care (3)

Identification and exploration of trends and issues with opportunity to debate and to defend a position on issues.

Prerequisite: NUR 405 or NUR 406 or permission of instructor. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

NUR 409 - Therapeutic Intervention V: Nursing Synthesis (6)

Synthesis of knowledge and skills required to effectively support clients, families and groups along a trajectory from diagnosis through end of life. Population based care as it relates to disaster preparedness and targeted nursing response.

Prerequisite: NUR 405 or NUR 400 and NUR 406. Corequisite: NUR 410. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

NUR 410 - Professional Nursing Management (3)

Professional role of the nurse in the health care system. Emphasis on leadership and management theory as related to nursing administration, organizational design and governance.

Corequisite: NUR 409. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

NUR 489 - Honors Project (3)

One semester, 3 credits (maximum 6 credits). Independent study or investigation, under faculty direction. A written report is required.

Prerequisite: Satisfactory completion of 24 credits in NUR or related fields and Departmental permission; cumulative college index of 3.2 and an index of 3.5 in Nursing. Offered: Fall-Spring.

PFP - Prefreshman Program

PFP 001 - Intergrtd Lan Skills (0)

Intergrtd Lan Skills

Requirement Designation: Message Liberal Arts. Offered: Fall-Spring.

PHE - Public Health

PHE 302 - Social and Environmental Determinants of Health (3)

Theory, methods and concepts for social and environmental determinants of health.

Prerequisite: PHE 304 or HEA 300.

PHE 303 - Approaches to Public Health Research (3)

Research methods and findings applied to public health problems; quantitative and qualitative approaches; relevant experimental designs and analytical techniques.

Prerequisite: PHE 304 or HEA 300, and HSD 269, and HSD 306.

PHE 304 - Fundamentals of Global Health (3)

Focus in the theories, methods and concepts for global health.

PHE 305 - Community-based Participatory Research Methods (3)

Principles, methods and processes of community-based participatory research (CBPR) for public health professionals. A collaborative approach to research that equitably involves all partners – community members, organizational representatives, and researchers - in the research process.

Prerequisite: PHE 302, PHE 303.

PHE 306 - Global Burden of Communicable and Non-Communicable Disease (3)

An introduction to the rise and burden of both communicable and non-communicable diseases globally, along with methods for global disease surveillance and control.

Prerequisite: PHE 304

PHE 307 - Emergency Preparedness at the Community Level (3)

Community-level preparation and public health intervention for potential risks, including natural disasters (hurricanes, earthquakes, flooding, heat), transmission and expansion of diseases and industrial contamination.

Prerequisite: ENV 210, PHE 302, PHE 303.

PHE 340 - Global Nutrition and Disease (3)

Global aspects of nutrition and its relation to health and disease. Topics will include the prevalence of hunger and malnutrition, nutrition-related diseases in the developing world, maternal-child nutrition, infection and nutrition,

globalization and nutrition transition, ecology of overweight/obesity and chronic diseases in both developing and industrialized nations.

Prerequisite: HSD 240.

PHE 360 - Special Topics in Public Health (3)

Covers topics related to public health in depth and has sections for multiple courses offered including cross cultural perspectives.

Prerequisite: PHE 304. Requirement Designation: Regular Non-Liberal Arts.

PHE 470 - Public Health Field Experience (3)

Supervised field experience requiring a minimum of 120 hours of work in a public health setting.

Prerequisite: Completion of 39 credits in the major.

PHE 472 - Public Health Capstone (3)

Guided discussion and readings to integrate undergraduate content and relevant field experiences to develop professionals for service in public health; culminating in a term project.

Prerequisite: Completion of 39 credits in the major.

PHI - Philosophy

PHI 166 - Philosophy of Freedom (3)

Examination of a broad range of philosophic questions whose unifying theme is the idea of freedom. Topics may include liberation strategies for both individuals and social groups, freedom as an ultimate category or value, and the concept of freedom present in most modern philosophies.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 168 - Philosophy of Contemporary Music (3)

A critical examination from a philosophic point of view of contemporary genres of music. Topics may include a philosophic analysis of the meaning and value of forms such as rap music, within their cultural contexts and in relation to the larger American society.

Cross-Listed as: LEH PHI 168/PHI 177. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 169 - Critical Reasoning (3)

Introduction to the concepts and methods of thinking, reading and writing analytically and evaluatively.

Cross-Listed as: LEH PHI 229/PHI 169. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 170 - Introduction to Logic (3)

An introduction to logical analysis covering propositional logic, syllogistic inference, deductive techniques, probability

and statistical inference, scientific method, language and logic, definition, and meaning.

Cross-Listed as: LEH DKV 205/PHI 170. Requirement Designation: Flexible Core - Scientific World. Offered: Fall-Spring.

PHI 171 - Problems of Philosophy (3)

Introduction to philosophic thinking via a discussion of questions such as "How should I live?," "What is the truth about reality?," and "Can God's existence be known?"

Requirement Designation: Flexible Core - Individual and Society. Offered: Fall-Spring.

PHI 172 - Contemporary Moral Issues (3)

Fundamental ethical theories and their applications to current moral issues, such as capital punishment, abortion, sexual equality, economic justice, and issues in medical and other professional ethics.

Requirement Designation: Flexible Core - Individual and Society. Offered: Fall-Spring.

PHI 173 - Justice and Society (3)

A study of freedom, justice, and order, and the primary conflicts among them.

Requirement Designation: Flexible Core - Individual and Society. Offered: Fall-Spring.

PHI 174 - Theories of Human Nature (3)

A consideration of several different views of human nature both pre- and post Darwinian, and within and outside the bounds of contemporary science.

Requirement Designation: Flexible Core - Individual and Society. Offered: Fall-Spring.

PHI 175 - Philosophy of Religion (3)

Philosophic study of the foundations of religious beliefs and practices. Consideration of concepts such as God, the divine, the soul, immortality, and human destiny; of traditional proofs and disproofs of the existence of God; of the differences between faith and belief; and of the nature of religious language.

Requirement Designation: Flexible Core - Individual and Society. Offered: Fall-Spring.

PHI 176 - Philosophy of Freedom (3)

Examination of a broad range of philosophic questions whose unifying theme is the idea of freedom. Topics may include liberation strategies for both individuals and social groups, freedom as an ultimate category or value, and the concept of freedom present in most modern philosophies.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 177 - Philosophy of Contemporary Music (3)

A critical examination from a philosophic point of view of contemporary genres of music. Topics may include a philosophic analysis of the meaning and value of forms, such as rap music, within their cultural contexts and in relation to the larger American society

Cross-Listed as: LEH PHI 168/PHI 177. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 215 - GRE Theory and Practice (3)

The Graduate Record Examination (GRE) in theory and practice.

Prerequisite: Junior or Senior status Cross-Listed as: ENW 215. Requirement Designation: Regular Liberal Arts.

PHI 216 - LSAT Theory and Practice (3)

The Law School Admission Test (LSAT) in theory and practice.

Prerequisite: Completion of at least 60 credits Cross-Listed as: POL 180. Requirement Designation: Regular Liberal Arts.

PHI 218 - Fundamentals of Human Rights and Peace (3)

Basic concepts and perspectives in the study of peace and human rights. The history and development of theoretical and practical approaches to human security. Topics may include terrorism, war and nonviolence, conflict resolution, genocide, class-, gender-, and race-based violence, notions of justice, and universal rights versus local cultural practices.

Cross-Listed as: LEH POL 218 / HRP 218 / PHI 218. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 221 - Ethical Issues in Computing and Technology (3)

Introduction to ethical systems and ethical decision making with reference to issues arising in computing and the use of technology. Topics chosen from among the following: privacy, consumer information, free speech, wiretapping, encryption, policies, open access to technology, computer crime, software protection, and hacking.

Prerequisite: 30 college credits. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 225 - Philosophy and Gender (3)

Conceptions of gender from the classical to the modern period.

Cross-Listed as: LEH PHI 225/WST 225. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 229 - Critical Reasoning (3)

An intensive study of reasoning patterns as they occur in explanatory and justificatory discourse typical of the various liberal arts and sciences. Exercises will be taken from a

number of disciplines and from such exams as the LSAT, MCAT, and GRE.

Cross-Listed as: LEH PHI 229/PHI 169. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 230 - Intermediate Logic (3)

Introduction to the techniques and applications of modern deductive logic; a development of formal systems of propositional and quantificational logic.

Prerequisite: PREREQ: PHI 170. Cross-Listed as: LEH LNG 266 / PHI 230. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 231 - Philosophy of Language (3)

Introduction to the philosophical study of language and meaning. Methods employed and problems encountered in the analysis of both constructed and natural languages will be examined.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 232 - Classical Ethical Theories (3)

Examination of ethical theories chosen from the works of Plato, Aristotle, Hobbes, Spinoza, Butler, Hume, Kant, Bentham, Mill, and others.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 233 - Aesthetics (3)

Some of the central problems in understanding the nature of art and our appreciation of art. These problems include the relevance of the artist's activities to the understanding and criticism of art; meaning, truth, and value in the arts; and the nature and uses of criticism.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 234 - Philosophy of Law (3)

Philosophical study of legal concepts and legal reasoning. Topics to be examined include the logic structure of law, the problems of natural law and justice, and the grounds of laws.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 235 - Political Philosophy (3)

An inquiry into basic questions of political philosophy, such as concepts of democracy, legitimacy, political freedom, and the role of politics in a good society. Selected political ideologies from classical and/or contemporary sources will be discussed.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 236 - Social Philosophy (3)

An inquiry into the nature of the good society. Questions such as the structure, and legal systems in the good society may be considered.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 237 - Issues in the Philosophy of Religion (3)

Study of selected issues in the philosophy of religion such as the relationship between religion and science, the possibility of specifically religious truth, and arguments concerning the infinite.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 238 - Asian Philosophies (3)

Survey of philosophical and religious doctrines in the Orient, with emphasis on such viewpoints as Confucianism, Taoism, and Buddhism.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 239 - Philosophical Ideas in Literature (3)

Relations between philosophy and literature, the mode of existence of a literary work of art and its sources in the imagination, and how philosophical ideas are embodied in literature. Selected classics of world literature, ancient and modern, are carefully read and analyzed.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 240 - Philosophy of History (3)

Readings from classical and contemporary philosophers of history. Philosophic problems raised by the study of history are emphasized. Among these are problems about the nature and limits of historical knowledge, the nature of historical explanation, and the relationships between history and other disciplines.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 241 - Existentialism (3)

Elementary study of some of the major doctrines.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 242 - History of Philosophy I: Ancient (3)

Intensive reading and critical examination of some of the principal writings of major thinkers of the Western philosophical tradition. Emphasis on Plato and Aristotle.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 243 - History of Philosophy II: Modern (3)

Intensive reading and critical examination of some of the principal writings of major thinkers of the Western philosophical tradition. Emphasis on Descartes, Spinoza, Leibnitz, Locke, Berkeley, Hume, and Kant.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 244 - History of Philosophy III: Nineteenth Century (3)

Western philosophical thought from Kant through the 19th century.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 245 - American Philosophy (3)

The pivotal writing of philosophers such as Peirce, James, Royce, Santayana, Whitehead, Dewey, and Lewis.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 246 - Philosophies of the Self (3)

Classical and modern conceptions of human nature. Questions include: Is there a universal human nature? How is it to be defined and explored? What is consciousness? What is the self? What is reason? How are reason and the emotions related?

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 247 - Environmental Ethics (3)

Philosophical reflection upon issues arising from a consideration of environmental problems confronting humanity. Topics which might be considered include whether we have obligations to future generations, other species, and ecosystems. If ethical concepts should be extended to include nature, are there viable alternatives to our current practices of using, exploiting, and dominating nature?

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 248 - Philosophy and Film (3)

An examination of philosophical ideas and issues arising from the study of film. Topics may include the aesthetics of film, the relationship between films and morality, and the expression in films of various philosophical problems, such as the meaning of life, the nature of values, authenticity, human freedom, the sacred, power and domination.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 250 - Contemporary Social Ethics (3)

(maximum 6 credits). Examination of selected major ethical problems confronting modern society. Topics to be considered will vary from semester to semester and may include the ethical aspects of abortion, social justice, racism, sexism, poverty, the environment, medical ethics, and animal rights.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 251 - History of Philosophy IV: 20th Century (3)

Several key philosophical movements began or flourished in the 20th century. These developments, and the period in question, are currently not adequately addressed by any of the department's history of philosophical movements of the 20th century. We are narrowing the focus of PHI 244: History of Philosophy III to complement this course.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 265 - Special Topics in Philosophy (3)

(maximum to 6 credits.) Various topics in Philosophy.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 269 - Introduction to African Philosophy (3)

Examination of traditional and contemporary African philosophies.

Cross-Listed as: LEH AAS 269/PHI 269. Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

PHI 281 - Readings in Philosophy (3)

(maximum 6 credits.) Topics be arranged between student and instructor.

Prerequisite: Satisfactory completion of 30 college credits, including one 200-level PHI course. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 3010 - Ethics and Science (3)

Basic frameworks common in moral philosophy and their application to scientific issues like informed consent of experimental subjects, ethical treatment of animals, and misconduct or fraud in the course of scientific investigations or preparations for publications.

Offered: Fall-Spring.

PHI 305 - African Philosophical Thought (3)

Traditional and contemporary African philosophical thought, including worldviews, ethics, ontology, and religions.

Cross-Listed as: LEH AAS 305/PHI 305. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 330 - Business Ethics (3)

Social responsibilities of business organizations. Analysis of ethical, moral, and social issues stemming from the interaction of individuals, businesses, and government.

Prerequisite: BBA 204 or Departmental permission.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 336 - Disability, Ethics & the Body (3)

Examination of how disability is defined and of moral issues surrounding the treatment of people with disabilities. Topics may include the role of the body in the definition and experience of disability, privacy issues, disability identity, and the moral issues involved in eugenics, prenatal screening, rehabilitation, and social services for disabled people.

Cross-Listed as: LEH DST 336/PHI 336. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 338 - Race and Ethnicity in Society (3)

Sociological perspectives on race and ethnic relations in the United States and other societies.

Cross-Listed as: LEH AAS 338 / SOC 338 / PHI 338.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 339 - Philosophy of Sport (3)

Philosophy of sport from a variety of vantage points. Topics may include the values of sport (winning, fair play, cheating), the connections between sport and art, politics, and culture, and the application of different branches of philosophy— aesthetics, ethics, epistemology, metaphysics, logic, and political philosophy—to sports.

Requirement Designation: Regular Liberal Arts.

PHI 341 - Medical Ethics (3)

Examination of ethical issues arising in clinical settings or pertaining to the public served by the health care system as a whole. Informed consent, surrogate decision-making, physician-assisted suicide, abortion, genetic screening and enhancement, rationing organs, conscientious refusals, public health paternalism, fair access to health care.

PHI 343 - Philosophy of Technology (3)

Philosophical issues concerning the relationship between human beings and technology. Issues to be discussed include: What is technology? What is its proper role in human affairs? How should technological change be evaluated?

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 3440 - Logical Theory (3)

General introduction to the theory of formal axiomatic systems, proof of the soundness, completeness, and

consistency of some axiomatic systems of logic; decision problems and independence; some topics in the semantics of formalized languages; and many-valued and modal logics.

Cross-Listed as: LEH LNG 3440/PHI 3440. Offered: Fall-Spring.

PHI 349 - Philosophy of Mind (3)

Introduction to central issues in the study of mind. What is consciousness and what is it to have a mind? How does the mind fit into a physical universe? What role does conscious experience play in securing knowledge of the world, of other minds, and of ourselves? Theories of consciousness that will be explored include Dualism, Behaviorism, Identity Theory and Functionalism.

Requirement Designation: Regular Liberal Arts.

PHI 351 - Logic and Language (3)

Investigation of some of the relations between language and logic.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 352 - Probability and Induction (3)

Introduction to several theories of scientific inference, the weighing of evidence, probability, and inductive inference.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 353 - Philosophy of Science (3)

Introductory course in which emphasis is placed on the clarification of pivotal concepts common to the empirical sciences. In particular, concepts such as explanation, confirmation, prediction, systematization, and empirical significance will be introduced. The relationship of uses of these concepts to the structure of scientific theory will receive close attention.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 354 - Philosophy of the Social Sciences (3)

Study of some of the problems involved in the social sciences. Possible topics include the structure of theories in the social sciences, methods of inquiry, the nature of human action, and the relationship between knowledge in the social and natural sciences.

Cross-Listed as: LEH CLT 354/SOC 354/PHI 354.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 355 - Theory of Knowledge (3)

Examination of some main problems in epistemology and of the various solutions that have been proposed.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 356 - Metaphysics (3)

Examination of some main problems in metaphysics and of the various solutions that have been proposed.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 357 - Educating Kings and Citizens (3)

Philosophical writings on education focused on what is education and what is education's purpose.

Requirement Designation: Regular Liberal Arts.

PHI 358 - Ethical Theory (3)

Intensive examination of the theoretical problems involved in the construction of a moral philosophy.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 359 - Philosophical Problems in Legal Theory (3)

(maximum 6 credits.) The course will examine selected problems such as abortion, capital punishment, civil disobedience, punishment, and population control, through a philosophical analysis of topics in legal theory such as legal causation, evidence, jurisdiction, and human rights.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 360 - Philosophy of Protest & Liberation (3)

This philosophical study of civil disobedience and of various liberation movements such as Third World liberation and women's liberation.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 361 - Nineteenth-Century Continental Philosophy (3)

This course will closely examine one or more of the main figures in nineteenth-century Continental philosophy.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 362 - Analytic Philosophy (3)

Intensive study of the writings of Moore, Russell, Carnap, Wittgenstein, and others.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 363 - Introduction to Jewish Philosophy (3)

Survey of the evolution of Jewish thought-with emphasis on representative figures of the Middle Ages, including Judah Halevi, Maimonides, and Joseph Albo, and with attention to such leading modern thinkers as M. Buber and R.

Rosenzweig. The relation between Jewish and general thought will be examined.

Prerequisite: Either satisfactory completion of 45 college credits or Departmental permission. Cross-Listed as: LEH HCU 363/PHI 363. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 364 - Capitalism and Its Critics (3)

Defenders and critics of capitalism in the nineteenth, twentieth, and twenty-first centuries. Philosophical and political consideration of liberalism, Marxism, anarchism, socialist-feminism, and the radical ecology movement.

Prerequisite: One 200-level PHI or POL course. Cross-Listed as: LEH POL 364 / PHI 364. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 365 - Special Topics in Philosophy (3)

(maximum to 6 credits.) Various topics in Philosophy.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 369 - Global Justice (3)

Moral obligations in global politics and economy. Contemporary theories of justice and their applications to the relationships between rich and poor countries.

Cross-Listed as: LEH PHI 369/POL 369. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 370 - Legal Reasoning (3)

The nature and practice of legal reasoning. How lawyers, judges, and policymakers make and interpret court decisions, apply existing laws and decisions to new cases, resolve conflicts between laws, assess evidence during a trial, and use analogical reasoning to arrive at legal decisions.

PHI 4010 - Critical Thinking in Practice (4)

A capstone for the Minor in Reason and Exposition, which is also open to non-minors. Students will be directed toward a semester-long independent research project applying basic skills in critical reasoning, writing and quantitative analysis. The specific research topic to be decided by each student under instructor supervision. The course is characterized by in-class discussion of ongoing projects and culminates in in-class presentations and a final paper on each project.

Prerequisite: PHI 169, PHI 170, ENW 201, PHI 230, SOC 3470; or by Departmental Permission.

PHI 434 - Neuroethics (3)

Ethical implications of new developments in neuroscience on issues such as use of brain scans for lie detection, neuromarketing, sentencing determinations.

PHI 450 - Topics in Logic, the Philosophy of Language, or the Philosophy of Mathematics (3)

Intensive examination of some main problems in the foundation of logic, language, or mathematics.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 461 - Contemporary Analytic Philosophy (3)

Intensive study of the writing of Moore, Russell, Carnap, Wittgenstein, and others.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 462 - Seminar in Philosophy and Social Policy (3)

(maximum 9 credits.) Examination of various theories of social policy and the application of these theories in selected areas. Application of utilitarianism, democracy, and the idea of a social contract to policy areas such as technology and risk, the environment, the law, foreign policy, civil rights, education, and the family.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 465 - Special Topics in Philosophy (3)

(maximum to 6 credits.) Various topics in Philosophy.

Cross-Listed as: LEH PHI 458/PHI 465. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 481 - Readings in Philosophy (3)

(maximum 9 credits.) Topics to be arranged between student and instructor.

Prerequisite: Chair's permission. Cross-Listed as: LEH CLT 481/PHI 481. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHI 482 - Honors Tutorial (3)

See Department for Description.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHY - Physics**PHY 131 - Conceptual Physics (3)**

Basic concepts and methods of physics. The nature of physical laws and the methods by which these laws are developed and tested. Topics include motion and energy; heat, light, and sound; the structure of matter; gravity, electricity, and magnetism.

Requirement Designation: Required Core - Life and Physical Sciences. Offered: Fall-Spring.

PHY 135 - Fundamental Concepts and Methods of Physics (4)

An introduction to some of the most significant ideas about the nature of the physical world and the methods by which these ideas are developed and tested experimentally, including Newtonian mechanics, conservation laws, the kinetic-molecular theory of matter, electromagnetic fields, light waves and interference, special relativity, general relativity, quantum mechanics, atoms, nuclei, and elementary particles.

Requirement Designation: Life and Physical Sciences or Scientific World. Offered: Fall-Spring.

PHY 140 - The Physics of Sound (3.5)

Harmonic motion, waves, perception and measurement of sound, the physics of musical instruments and human voice, electrical reproduction of sound, acoustics of rooms, and environmental noise.

Requirement Designation: Life and Physical Sciences or Scientific World. Offered: Fall-Spring.

PHY 141 - Sound, Speech and Music (3)

Introduction to the physics of sound and the principles underlying speech, hearing, and music. Sound waves and their properties. The production, propagation, and perception of sound. Acoustics. The recording and reproduction of sound.

Requirement Designation: Required Core - Life and Physical Sciences. Offered: Fall-Spring.

PHY 145 - Light and Color (4)

Introduction to the nature of light and color and its applications in science, technology, and in art. Light as an electromagnetic wave phenomenon, interference, geometrical optics, polarization, the laser, holography, fiber optics, reproduction of sound with light, vision, visual illusions, color theory, light and color in nature and art.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHY 150 - Energy and the Environment (4)

Energy as a physical concept, various forms of energy, conservation of energy, heat and thermodynamics, energy from fossil fuels, electrical energy and its generation, solar energy, nuclear energy. The environmental effects of the generation of energy, air pollution, global warming, nuclear radiation in the environment.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHY 151 - Energy and the Environment (3)

Energy as a physical concept: various forms of energy, conservation of energy, heat and thermodynamics, energy from fossil fuels, electrical energy and its generation, solar energy, nuclear energy. The environmental effects of the

generation of energy: air pollution, global warming, nuclear radiation in the environment.

Requirement Designation: Required Core - Life and Physical Sciences. Offered: Fall-Spring.

PHY 165 - Applied Physics (4)

A one-semester calculus-based survey of physics and its applications. Motion, force and energy. Electrostatic force, electric potential and simple electrical circuits. Note: intended for students who need basic training in physics but are not planning to major in the physical sciences.

Prerequisite: MAT 175. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHY 166 - General Physics I (5)

Algebra-based Physics: mechanics, heat, and sound (customarily taken by pre-medical, pre-veterinary, and pre-dental students).

Prerequisite: PREREQ: MAT 172, or MAT 171 and MAT 108, or satisfaction of requirements for placement into calculus I (MAT 175). Requirement Designation: Life and Physical Sciences or Scientific World. Offered: Fall-Spring.

PHY 167 - General Physics II (5)

(Algebra-based Physics: Customarily taken by premedical, preveterinary, and pre-dental students.) Electromagnetism, geometrical and physical optics, and introduction to modern physics.

Prerequisite: PHY 166, or PHY 168. Requirement Designation: Life and Physical Sciences or Scientific World.

PHY 168 - Physics I for Scientists and Engineers (5)

(Calculus-based Physics: Designed for those preparing for careers in the physical sciences and engineering.) Motion, Newton's laws, work and energy, mechanics of rigid bodies, elasticity, mechanics of fluids, temperature, heat, kinetic theory of matter, wave motion, and sound.

Prerequisite: PREREQ or COREQ: MAT 176. Requirement Designation: Life and Physical Sciences or Scientific World. Offered: Fall-Spring.

PHY 169 - Physics II for Scientists and Engineers (5)

Calculus-based Physics: Designed for those preparing for careers in the physical sciences and engineering.) Electrostatics, electrodynamics, geometrical and physical optics.

Prerequisite: PREREQ: PHY 168. PREREQ or COREQ: MAT 226. Requirement Designation: Life and Physical Sciences or Scientific World. Offered: Fall-Spring.

PHY 207 - Mathematics for the Physical Sciences (4)

Mathematical techniques applied to solving physical problems. Techniques used include differential and integral

calculus of one and many variables, infinite series, complex numbers, functions of complex variables, vector calculus, matrices and determinants, linear vector spaces, differential equations.

Prerequisite: MAT 176 or permission of the instructor.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHY 215 - Medical Physics (4)

Physical principles applied to physiology, circulation, respiration. Atomic and nuclear physics applications to imaging, therapy, radiation protection, dosimetry. Medical applications of accelerator beams: electrons, protons, heavy ions, Doppler and pulse-echo ultrasonic measurements. Feedback networks and neural systems. Instrumentation.

Prerequisite: PHY 166 and PHY 167 or PHY 168 and PHY 169, or the equivalent (including courses in anatomy and physiology), with Departmental approval. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHY 241 - Modern Physics (4)

Relativity; fundamental physical processes at the atomic level; introductory Schrodinger quantum mechanics; introductory nuclear physics; atomic and nuclear models.

Prerequisite: PHY 167 or PHY 169 and MAT 175 and MAT 176. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHY 251 - Modern Physics Laboratory (2)

Individual experimentation in selected areas of physics and introduction to analysis of experimental data.

Prerequisite: PHY 241 and MAT 176. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHY 252 - Environmental Physics (4)

Physical principles applied to the environmental sciences. Forms of energy, conservation of energy, heat and thermodynamics, energy from fossil fuels, physics of air pollution and global warming, electrical energy and its generation, solar energy, nuclear energy, environmental effects of nuclear radiation.

Offered: Fall-Spring.

PHY 301 - Intermediate Electricity and Magnetism (4)

Electrostatics, dielectrics, magnetism and electromagnetic induction, magnetic properties of matter, D.C. and A.C. circuits, Maxwell's equations.

Prerequisite: Either PHY 167 or PHY 169. PRE or COREQ: MAT 226 or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHY 302 - Intermediate Mechanics (4)

Dynamics of a particle. The harmonic oscillator. The central force problem: planetary orbits. Dynamics of systems of particles: rotation of rigid bodies. Accelerating coordinate systems.

Prerequisite: Either PHY 167 or PHY 169. PRE or COREQ: MAT 226 or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHY 303 - Thermodynamics and Statistical Mechanics (4)

First and second laws of thermodynamics, equation of state, entropy and other concepts of thermodynamics, applications to heat engines, and thermal properties of gases, solutions and solids; introduction to statistical mechanics.

Prerequisite: Either PHY 167 or PHY 169 and MAT 226. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHY 304 - Optics (3)

Reflection and refraction, interference, diffraction and polarization, lasers and holography.

Prerequisite: PHY 167 or PHY 169 and MAT 175. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHY 305 - Analog circuits (3)

Principles of analog electrical and electronic circuits. Circuit analysis, RC and LC circuits, filters, diodes, transistors and op amps.

Prerequisite: PHY 165 or PHY 167 or PHY 169. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

PHY 306 - Astrophysics (3)

Selected topics from celestial mechanics and stellar dynamics; stellar energy sources, pulsars, quasars, black holes, and relativistic cosmology.

Prerequisite: MAT 175; either PHY 167 or PHY 169; PHY 241 recommended but not required. Cross-Listed as: LEH AST 306/PHY 306. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHY 307 - Mathematical Physics (4)

Vector calculus, matrix and tensor algebra, Fourier and Laplace transforms, complex variable theory, and solutions of differential equations. Applications to problems in physics.

Prerequisite: Either PHY 167 or PHY 169, and PHY 207. PRE OR COREQ: MAT 226. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHY 310 - Nuclear Physics (3)

Systematics of nuclei: nuclear levels, transitions, and decay modes. Models of nuclear forces and structure. Quantum scattering theory and nuclear form factors. Methods of particle

production, acceleration, and detection. Topics from nuclear astrophysics.

Prerequisite: PHY 166 and PHY 167 or PHY 168 and PHY 169; PHY 300 or Departmental approval. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHY 315 - Digital Circuits and Systems (3)

The design and construction of digital electronic systems. Combinational logic, sequential logic, arithmetic and memory units, computer systems design.

Prerequisite: PHY 305 and CMP 334 or departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

PHY 320 - Quantum Computer Science (3)

An elementary introduction to quantum information science and quantum computing for majors in computer science, physics, and mathematics. The linear algebra of quantum mechanics, bits versus qubits, quantum cryptography, quantum teleportation, quantum gates and quantum computing, the Grover search algorithm.

Prerequisite: MAT 313. Cross-Listed as: LEH CMP 320/PHY 320. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHY 350 - Intermediate Physics Laboratory II (2)

Individual experimentation, with emphasis on modern experimental techniques.

Prerequisite: PHY 251 and PHY 300. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHY 351 - Intermediate Physics Laboratory III (2)

Individual experimentation, with emphasis on modern experimental techniques.

Prerequisite: PHY 350. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHY 355 - Special Topics in Physics (1-3)

1-3 hours, 1-3 credits. Course content will be chosen from topics valuable to Physics majors or students from other departments. Topics to be covered and number of hours and credits will be announced in advance. Can be taken repeatedly as long as course content is not the same.

Prerequisite: Chair's permission. Offered: Fall-Spring.

PHY 400 - Introductory Quantum Mechanics (4)

Wave and particle nature of matter and radiation. The uncertainty principle. Operators and the Eigen-value equations; Schrodinger formulation; stationary states. Harmonic oscillator and potential barrier problems. Angular momentum. Central potential and the hydrogen atom. Perturbation theory of energy levels. Spin and statistics.

Prerequisite: PHY 241. Corequisite: Either MAT 313 or MAT 323 or departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHY 401 - Solid State Physics (3)

Principles of crystallography; crystal structure; reciprocal space; crystalline defects. Lattice dynamics; phonon statistics and lattice specific heats. Thermal conduction. Electrons in metals; classical and quantized free electron theory. Band theory of solids. Dynamics of electron motion. Superconductivity. Semiconductors. Dielectric and magnetic properties of solids.

Prerequisite: PHY 300 and MAT 226. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHY 403 - Theoretical Mechanics (3)

Lagrange's and Hamilton's equations. Waves in continuous media. Other topics in classical mechanics particularly valuable in modern physics.

Prerequisite: PHY 302 or MAT 323. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHY 404 - Electromagnetic Theory (3)

Maxwell's equations, electromagnetic waves, radiation; antennas, transmission lines, and wave guides.

Prerequisite: PHY 301 and MAT 323. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PHY 487 - Internship in Physics (3 (maximum 6 credits).)

On-the-job training in a public or private institution.

Prerequisite: Prior approval of Department Chair. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

PHY 489 - Honors Course (One semester, 6 or 9 hours, 2 or 3 credits (maximum 8 credits).)

Independent study or participation in a research project under faculty direction.

Prerequisite: Departmental permission. Offered: Fall-Spring.

POL - Political Science

POL 150 - Contemporary Political Issues (3)

An examination of key domestic and international issues from the perspective of political science.

Requirement Designation: Flexible Core - Individual and Society.

POL 166 - The American Political System (3)

The theory and practice, and the form and substance, of American government and politics.

Requirement Designation: Flexible Core - US Experience in its Diversity.

POL 172 - Great Political Thinkers (3)

Foundations of political thought.

Requirement Designation: Flexible Core - Individual and Society.

POL 180 - LSAT Theory and Practice (3)

The Law School Admission Test (LSAT) in theory and practice.

Prerequisite: Completion of at least 60 credits Cross-Listed as: PHI 216. Requirement Designation: Regular Liberal Arts.

POL 211 - Public Policy (3)

The institutions and the political systems involved in selected areas of policy making. Discussion of the behavior and influence of the various participants. Analysis and prediction of both governmental and nongovernmental action in the policy process.

Requirement Designation: Flexible Core - US Experience in its Diversity.

POL 217 - Criminal Justice (3)

Roles of political bodies and court decisions affecting criminal incarceration, punishment, and rehabilitation and more general principles of due process, freedom, and justice. Interactions between criminal justice personnel and agencies and broader political systems.

Requirement Designation: Flexible Core - US Experience in its Diversity.

POL 218 - Fundamentals of Human Rights and Peace (3)

Basic concepts and perspectives in the study of peace and human rights. The history and development of theoretical and practical approaches to human security. Topics may include terrorism, war and nonviolence, conflict resolution, genocide, class-, gender-, and race-based violence, notions of justice, and universal rights versus local cultural practices.

Cross-Listed as: LEH PHI 218 / HRP 218 / POL 218.

Requirement Designation: Regular Liberal Arts.

POL 220 - Russia Today (3)

An introduction to life in Russia and neighboring countries of the former Soviet Union that explores the politics, society, history, and culture of Eurasia today through a multidisciplinary approach, using a variety of media and materials.

Cross-Listed as: LEH RUS 220/POL 220. Requirement Designation: Flexible Core - World Cultures & Global Issues.

POL 226 - Political Thought I: Classical to Medieval (3)

Critical survey of political thought to 1500.

Requirement Designation: Regular Liberal Arts.

POL 227 - Political Thought II: Modern (3)

Critical survey of political thought from 1500 to 1900.

Requirement Designation: Regular Liberal Arts.

POL 228 - Democracy and Its Critics (3)

Arguments for and against constitutional democracy, and an examination of its inherent problems.

Requirement Designation: Regular Liberal Arts.

POL 229 - Classical Political Economy (3)

Foundations of classical political economy. Theories of value, laissez faire, division of labor, production, distribution, trade, and economic growth. Importance of classical political economy to government and capitalism.

Requirement Designation: Flexible Core - Individual and Society.

POL 230 - Immigration and Citizenship (3)

The impact of U.S. immigration policy upon its politics and economy. The role of migration in globalizing politics and economy. Changing notions of citizenship in the age of globalization, including controversies regarding the rights of citizens and non-citizens, particularly in times of national crisis. Topics include: economic interests of immigrants, politics of change in immigration law, and the implications of globalization for citizenship and integration.

Requirement Designation: Flexible Core - US Experience in its Diversity.

POL 234 - Latino Politics (3)

Latino social and political movements within the U.S political system. Topics include Latino social movements; political incorporation; electoral processes; immigration politics; foreign policy; and identity movements.

Cross-Listed as: LEH LAC 234/LTS 234/POL 234.

Requirement Designation: Flexible Core - US Experience in its Diversity.

POL 240 - International Politics (3)

Theory and practice in international relations. The tools used by nation- states to achieve their international policy goals under conditions of cooperation and conflict.

Requirement Designation: Flexible Core - World Cultures & Global Issues.

POL 241 - Globalization (3)

Introduction to the political history of globalization. Historical changes in the national, corporate, and individual pursuit of power and wealth. Global flows of trade, migration, and information technology. The effects of globalization on nation-states.

Requirement Designation: Flexible Core - World Cultures & Global Issues.

POL 245 - Political Analysis and Interpretation (3)

Introduction to the methods of gathering and interpreting data for political science courses. Focus on reading, understanding, and analyzing graphs and charts. Ways to gather, select, and present data.

Requirement Designation: Regular Liberal Arts.

POL 265 - Topics in Political Science (3)

(May be repeated when topics change. Maximum 6 credits.)

Selected topics of contemporary significance.

Requirement Designation: Regular Liberal Arts.

POL 266 - Politics and Culture (3)

Impact of cultural ideals and practices on political institutions.

Requirement Designation: Flexible Core - World Cultures & Global Issues.

POL 267 - Gender and Politics (3)

How gender is constructed by multiple factors such as identity, place, space, class, sexuality, age, race, ethnicity, nationality, and culture and how these categories of difference shape the positioning and reproduction of gender in a variety of political contexts, including global, national and transnational framework.

Requirement Designation: Regular Liberal Arts.

POL 268 - Comparative Politics (3)

Comparative perspective on the constitution, organization, and operations of selected political systems.

Requirement Designation: Flexible Core - World Cultures & Global Issues.

POL 275 - Introduction to Environmental Policy and Economics (3)

Pressing environmental issues, causes, and potential policy responses; economic concepts and principles applied to environmental issues and their policy implications.

Requirement Designation: Regular Liberal Arts.

POL 299 - Law, Computers, and the Internet: The Politics of Information Technology (3)

The influence and impact of politics, policy, and law as government and society grapple with issues raised by advances in computing and by the increasing pervasiveness of the internet, information technology and social media. Among the issues that will be studied is whether advances in information technology will enhance or curtail democracy, as reflected in controversies about privacy and electronic surveillance.

Requirement Designation: Regular Liberal Arts.

POL 300 - The American Presidency (3)

The development and contemporary importance of the presidency as a focus for decision making in the conduct of domestic and foreign affairs.

Prerequisite: POL 166. Requirement Designation: Regular Liberal Arts.

POL 301 - Legislative Politics (3)

Policy making in Congress, with emphasis on the interaction of private and public agencies.

Prerequisite: POL 166. Requirement Designation: Regular Liberal Arts.

POL 302 - The Judiciary (3)

The contemporary role of the judiciary as a part of the decision-making process in American public policy, with an analysis of the various levels of federal and state judicial systems in terms of (1) input: judicial recruitment, judicial policy making, and relations between national and state court systems; (2) implementation: relation to other national and state policy makers and problems of compliance with court decisions; and (3) problems of our judicial system and the chances for change.

Prerequisite: POL 166. Requirement Designation: Regular Liberal Arts.

POL 303 - Constitutional Law: Government Structures and Powers (3)

Supreme Court decisions bearing on the extent of judicial, legislative, and executive power; federalism, and property rights and economic liberties.

Prerequisite: POL 166. Requirement Designation: Regular Liberal Arts.

POL 304 - Constitutional Law: Personal Rights and Liberties (3)

Supreme Court decisions bearing on equality, procedural due process of law, and First Amendment freedoms.

Prerequisite: POL 166. Requirement Designation: Regular Liberal Arts.

POL 305 - Public Administration (3)

The operations of government agencies and other large organizations dealing with public policy. The effect of such agencies on their employees and the public at large.

Prerequisite: POL 166. Requirement Designation: Regular Liberal Arts.

POL 306 - Political Parties, Campaigns, and Elections (3)

The changing role of political parties in modern American government. Strategy and financing of modern political campaigns. Significance of elections for public representation and accountability.

Prerequisite: POL 166. Requirement Designation: Regular Liberal Arts.

POL 307 - Political Power in America (3)

The structure and operations of interest groups in U.S. public life, with emphasis on the relative power and influence of various groups, techniques of influencing public policy, and group impact on public policy and on the operation of the political system.

Prerequisite: POL 166. Requirement Designation: Regular Liberal Arts.

POL 308 - American Foreign Policy (3)

The making, administration, and control of foreign policy in the United States.

Prerequisite: POL 166. Requirement Designation: Regular Liberal Arts.

POL 309 - State and Local Politics (3)

American state and local governments, in theory and in practice; emphasis on federalism, state politics, and selected policy areas. Special attention to New York State politics.

Prerequisite: POL 166. Requirement Designation: Regular Liberal Arts.

POL 310 - Urban Politics and Government (3)

Emergence of the modern city and of suburban sprawl, and their political impact.

Prerequisite: POL 166. Requirement Designation: Regular Liberal Arts.

POL 311 - Freedom of Speech (3)

Survey of the foundations and contemporary applications of the right to communicate and limitations on that right.

Pertinent works from Milton to Emerson, and First Amendment decisions of the Supreme Court are examined.

Prerequisite: POL 166. Requirement Designation: Regular Liberal Arts.

POL 312 - Jurisprudence (3)

Nature and function of law in modern states. Basic legal concepts such as right, duty, crime, and punishment; major theories of law. Examination of how basic legal concepts affect the political and legal processes in modern states.

Prerequisite: POL 166. Requirement Designation: Regular Liberal Arts.

POL 313 - Political Issues in New York City (3)

Government of the City of New York and issues affecting the city today. Impact of economic and social forces on the political process. Analysis of groups that compete for power and the significance of fiscal crisis. The city's relationship to the state and federal governments and to a changing international economy.

Prerequisite: POL 166. Requirement Designation: Regular Liberal Arts.

POL 314 - Urban Policy (3)

Theories and practices of urban policies, including their spatial and historical consequences. Significance of social and political issues for urban policy-making.

Requirement Designation: Regular Liberal Arts.

POL 315 - The Politics of American Poverty (3)

The nature and extent of American poverty and the political, social, and economic factors that perpetuate it. Consideration of policy alternatives to reduce poverty.

Prerequisite: POL 166. Requirement Designation: Regular Liberal Arts.

POL 316 - Organizing an Election Campaign (3)

A course in "practical politics," analyzing strategies for attaining elective office on the local level. Students will construct a model of a complete local campaign as a term project.

Prerequisite: POL 166. Requirement Designation: Regular Liberal Arts.

POL 317 - The Politics of American Public Education (3)

The interaction among state, local, and national governments and interest groups, and their effect upon education policy, including the purposes, structure, funding, standards, curriculum, and student populations of public schools.

Prerequisite: POL 166. Requirement Designation: Regular Liberal Arts.

POL 318 - The Politics of Health (3)

The nature and extent of health care and public policy in the United States. Means for achieving and methods of evaluation of public-policy goals related to health. The role of public and private sectors in the shaping of health oriented laws and regulations.

Prerequisite: POL 166. Requirement Designation: Regular Liberal Arts.

POL 319 - Political Thought III: Contemporary (3)

Critical survey of political thought since 1900.

Requirement Designation: Regular Liberal Arts.

POL 320 - Comparative Education, Policy, and Politics (3)

Education policy and practice studied comparatively and from a social justice perspective.

Requirement Designation: Regular Liberal Arts.

POL 321 - American Political Thought (3)

Survey of American political thought, covering topics such as power, identity, and justice.

Requirement Designation: Regular Liberal Arts.

POL 322 - Non-Western Political Thought (3)

A selective survey of political thinking outside the Western political tradition.

Requirement Designation: Regular Liberal Arts.

POL 323 - Marxism (3)

Main principles of Marxism in theory and practice.

Requirement Designation: Regular Liberal Arts.

POL 324 - Political Sociology (3)

An interdisciplinary course focusing on topics such as the state, power and hegemony, social structure and stratification, political agency, collective action and social movements, surveillance and social control.

Prerequisite: POL 166. Requirement Designation: Regular Liberal Arts.

POL 325 - Political Psychology (3)

The interrelationship between psychological and political processes - Study of the psychological aspects of national and international political behavior and of the process by which political events influence the reactions of individuals and groups.

Prerequisite: POL 166. Requirement Designation: Regular Liberal Arts.

POL 326 - Political Socialization (3)

An examination of the agents and channels of political socialization, such as the family, schools and youth subcultures, peers, media, and life experiences from childhood to early adulthood. The impact of various forms of political socialization on conventional and unconventional political attitudes, opinions, and activities.

Prerequisite: POL 166. Cross-Listed as: LEH SOC 326/POL 326. Requirement Designation: Regular Liberal Arts.

POL 327 - Comparative Labor Movements (3)

History, organization, government, and policies of unionism in the United States in comparison with labor movements of other contemporary and recent cultures.

Prerequisite: POL 166. Cross-Listed as: LEH POL 327/ECO 327. Requirement Designation: Regular Liberal Arts.

POL 328 - Comparative and Global Perspectives on Gender and Politics (3)

Advanced study of the political and social institutions that shape the comparative and transnational dynamics of gender and its intersectionality with race, class, culture, sexuality, identity and other spectrums of difference.

Cross-Listed as: LEH MES 328/SOC 328/POL 328.
Requirement Designation: Regular Liberal Arts.

POL 329 - Political Systems in Europe (3)

The government and politics of European countries will be studied comparatively, with emphasis on regional integration and the development of constitutional democracy.

Requirement Designation: Regular Liberal Arts.

POL 330 - The Russian Political System (3)

Government institutions and society in contemporary Russia. Problems of political integration, economic growth, and the history of Communism.

Requirement Designation: Regular Liberal Arts.

POL 331 - Methods of Social Research (4)

Methods of data collection and interpretation; measures of central tendency, variation and change; preparation and reading of tables and graphs; and the use of quantitative data to evaluate hypotheses and draw conclusions about the social world. Extensive use of computer applications and hands-on, active learning exercises.

Prerequisite: Either SOC 166 or POL 166 or any 200-level Sociology or 200-level Political Science course. Cross-Listed as: LEH POL 331/SOC 301. Requirement Designation: Regular Liberal Arts.

POL 332 - Political Systems in Latin America (3)

Domestic institutions and foreign policies of selected Latin American republics.

Cross-Listed as: LEH LAC 332/POL 332. Requirement Designation: Regular Liberal Arts.

POL 333 - Political Systems in Africa (3)

Colonialism, nationalism, and liberation movements in sub-Saharan Africa. Problems of national integration in several African states. Africa's place in the world today.

Requirement Designation: Regular Liberal Arts.

POL 334 - Political Systems in the Middle East (3)

Domestic institutions and foreign policies of selected nations in the Middle East.

Requirement Designation: Regular Liberal Arts.

POL 335 - Major Asian Political Systems (3)

Study of China, Japan, and other selected Asian nations; the enduring and changing features of their political systems.

Requirement Designation: Regular Liberal Arts.

POL 336 - Political Systems of Central America and the Caribbean (3)

Domestic institutions and foreign policies of the Latin American and Caribbean states. The causes, circumstances, and effects of revolution and counterrevolution.

Cross-Listed as: LEH LAC 336/POL 336. Requirement Designation: Regular Liberal Arts.

POL 337 - Public Opinion and Polling (3)

Influence of polls in modern American government and politics. Types and mechanisms of polls and their manipulation and interpretation.

Requirement Designation: Regular Liberal Arts.

POL 338 - Nationalism and Challenges to National Unity (3)

The bases of nationalism and their variations in contemporary states. Analysis of ethnic, religious, regional, linguistic, and other loyalties threatening to undermine national unity.

Prerequisite: Satisfactory completion of 30 college credits.

Requirement Designation: Regular Liberal Arts.

POL 339 - Human Rights (3)

Theories and practices of human rights and their historical development in the context of globalization. Impact of human rights on local and global social movements. Significance of human rights activism at home and abroad.

Prerequisite: Satisfactory completion of 30 college credits.

Requirement Designation: Regular Liberal Arts.

POL 340 - Law in Action (3)

The use of the courts as a political instrument to improve social and economic conditions. Study of recent cases in such selected fields as housing, health, employment, civil rights, and the environment. Impact and limitations of the courts.

Prerequisite: POL 166. Requirement Designation: Regular Liberal Arts.

POL 341 - Women and Politics (3)

An examination of the legal and political status of women in the United States and other countries.

Cross-Listed as: LEH POL 341/WST 341. Requirement Designation: Regular Liberal Arts.

POL 342 - African Americans in the Political System (3)

The role, influence, and impact of African Americans on the political process in the United States.

Cross-Listed as: LEH AAS 342/POL 342. Requirement Designation: Regular Liberal Arts.

POL 343 - International and Regional Organizations (3)

The United Nations' system and other global and regional organizations.

Requirement Designation: Regular Liberal Arts.

POL 344 - International Law (3)

The nature, sources, principles, and rules of international law in the framework of the nation-state system.

Requirement Designation: Regular Liberal Arts.

POL 345 - Integration of the Americas (3)

The cooperation, dissent, and power relations in the process of economic and political integration. The implications of the South American Common Market, the Caribbean Community and Common Market, and the Free Trade Area of the Americas, among others, for inter-American relations.

Prerequisite: Satisfactory completion of 45 college credits.
Requirement Designation: Regular Liberal Arts.

POL 346 - Advanced Methods of Social Research (3)

Systematic and scientific procedures for conducting social research. Consideration of the strategies of research design and elements of data-gathering techniques.

Prerequisite: POL 331 or SOC 301. Requirement Designation: Regular Liberal Arts.

POL 347 - The Law of Diplomacy, Treaties, and War (3)

International law applied specifically to questions of peace keeping, negotiation, rights of aliens and foreign diplomats, and the law of war. Recent developments in treaty law, treaty making, and regulating the use of force, the control of weapons, and the trials of war criminals

Prerequisite: Satisfactory completion of 30 college credits.
Requirement Designation: Regular Liberal Arts.

POL 348 - International Conflict and Conflict Resolutions (3)

Forms and levels of violence in domestic and international conflicts. Factors leading to the outbreak of armed conflicts among states and between the state and non-state actors, such as terrorists, insurgents, and refugees. Prevention and escalation of violence and the resolution of conflict.

Prerequisite: Satisfactory completion of 30 college credits.
Requirement Designation: Regular Liberal Arts.

POL 350 - Political Demography (3)

U.S. and comparative/global population trends and their implications for national and international politics and policies. Topics include demographic transitions, population growth and the environment, public health policies, gender and family patterns, control of fertility, morbidity and mortality, forced and voluntary migration, boom and bust cycles, and graying of populations.

Requirement Designation: Regular Liberal Arts.

POL 3520 - Special Topics in Human Rights and Peace Studies (3)

Various topics in human rights and security protections.

Cross-Listed as: LEH HRP 3520 / ANT 3520 / POL 3520.
Requirement Designation: Regular Liberal Arts.

POL 355 - Political Mobilizations and Social Movements (3)

Contemporary social movements and classical and contemporary themes of political and resource mobilization in protest politics in American, comparative, or transnational contexts.

Requirement Designation: Regular Liberal Arts.

POL 356 - Race and Class in American Politics (3)

The historical development of racial and class rule in American politics. The analysis of race- and class-based inequalities in American political institutions.

POL 359 - Science, Policy, and Politics (3)

Role and application of scientific knowledge to the development of public policy. Examination of how funding organizations, the interests, beliefs, culture, and values of formal and informal policy actors, and the channels through which elected officials and appointed officials receive scientific information affect the science-policy interface.

Prerequisite: POL 166 or POL 211. Requirement Designation: Regular Liberal Arts.

POL 364 - Capitalism and Its Critics (3)

Defenders and critics of capitalism in the nineteenth, twentieth, and twenty-first centuries. Philosophical and political consideration of liberalism, Marxism, anarchism, socialist-feminism, and the radical ecology movement.

Cross-Listed as: LEH PHI 364 / POL 364. Requirement Designation: Regular Liberal Arts.

POL 365 - Advanced Topics in Political Science (3)

An advanced topical course which addresses significant issues in political science.

Requirement Designation: Regular Liberal Arts.

POL 366 - Global Political Economy (3)

Concepts and principles of political economy, with a focus on the political economy of growth in the contemporary world.

Requirement Designation: Regular Liberal Arts.

POL 367 - Political Economy of Development (3)

History of worldwide industrial development. Theories and policies of international development. Global impact of economic growth and stagnation on the unequal distribution of power and wealth.

Prerequisite: Satisfactory completion of 30 college credits.
Requirement Designation: Regular Liberal Arts.

POL 368 - Global Environmental Politics (3)

Examination of institutions and structures of global environmental politics. Impact of environmental organizations and multilateral environmental and trade agreements on global environment and its governance. Emerging environmental

inequalities between industrialized and industrializing regions.

Prerequisite: Satisfactory completion of 30 college credits.
Requirement Designation: Regular Liberal Arts.

POL 369 - Global Justice (3)

Moral obligations in global politics and economy.
Contemporary theories of justice and their applications to the relationships between rich and poor countries.

Cross-Listed as: LEH PHI 369/POL 369. Requirement Designation: Regular Liberal Arts.

POL 372 - Politics and Human Survival (3)

This course examines human survival amid environmental and political destabilization, including access to heat, cooling, medicine, shelter, food, water, and information in the context of climate change, increased epidemic risks, infrastructure breakdown, and other concerns.

Requirement Designation: Regular Liberal Arts.

POL 380 - Climate Change: Science, Society, and Politics (3)

Ecological, social, and political dimensions of global climate change.

Requirement Designation: Regular Liberal Arts.

POL 389 - Political Research Laboratory (3)

An introductory comparison of the organization and operation of selected political systems, representing the liberal-democratic West, the socialist world, and the emerging nations of the underdeveloped world.

Requirement Designation: Regular Liberal Arts.

POL 451 - Selected Problems in Political Science (3)

See Department for Description.

Requirement Designation: Regular Liberal Arts.

POL 470 - Seminar and Internship Program in New York Government (4)

Students will attend weekly seminars on problems of New York City government and will serve from eight to ten hours a week as administrative assistants in New York City government offices and agencies.

Prerequisite: Chair's permission. Cross-Listed as: LEH POL 470/SOC 470. Requirement Designation: Regular Liberal Arts.

POL 471 - Seminar and Internship Program in Law (4)

Students attend a weekly seminar on legal problems and serve from eight to ten hours a week as legal interns. The seminar provides a structured program to relate individual student experiences to one another and to broaden intellectual issues. The internships are generally in areas in which lawyers are particularly understaffed, e.g., in Legal Aid offices, social

service agencies related to courts, complaint bureaus of consumer affairs agencies, and investigative offices of district attorneys.

Prerequisite: Instructor's permission. Recommended: One or more law-oriented courses. (Limited enrollment.)
Requirement Designation: Regular Liberal Arts.

POL 4720 - Model United Nations (3 credits (maximum 6 credits).)

Practical understanding of the United Nations through participating in a simulation exercise known as the Model UN Conference. Topics will vary from year to year, but the course requires students to write a country fact sheet, a position paper, and draft resolutions to be used in the simulation exercise.

Prerequisite: Instructor's permission.

POL 4730 - Internship in Human Rights and Peace Studies (3)

A supervised internship enabling students to acquire professional experience in areas related to human rights and security protections. Note: Students are responsible for locating and arranging the internship but are encouraged to first consult with the mentoring faculty on suitable organizations.

Prerequisite: Permission from the Instructor. Cross-Listed as: LEH ANT 4730 / HRP 4730 / POL 4730. Requirement Designation: Regular Liberal Arts.

POL 478 - Political Science Senior Research Seminar (3)

The Political Science Senior Research Seminar will present the Political Science major with the opportunity to conduct original research in one of the sub fields of Political Science. In the class discussion students will be introduced to the major trends in contemporary research, and they will be guided in the development of analytic, research, and writing skills. Each student will prepare an independent research paper and will be expected to discuss his research topic in class.

Requirement Designation: Regular Liberal Arts.

POL 481 - Honors Tutorial (3 (can be repeated once))

An opportunity for outstanding seniors to carry out individual research projects under faculty direction. (Maximum 6 credits.)

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

POR - Portuguese

POR 105 - Elementary Portuguese I (3)

Study of pronunciation and the elements of Portuguese grammar; reading of simple texts; and oral practice.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

POR 106 - Elementary Portuguese II (3)

Study of pronunciation and the elements of Portuguese grammar; reading of simple texts; and oral practice.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

POR 108 - Elementary Portuguese III (3)

Study of pronunciation and the elements of Portuguese grammar; reading of simple texts; and oral practice.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

POR 201 - Intermediate Portuguese Reading and Composition (3)

Grammar review, Luso-Brazilian readings, composition, and practical conversation.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

POR 246 - Portuguese Literature from the Eighteenth to the Twentieth Century (3)

A selection of major works from neoclassicism to the present.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

POR 247 - Brazilian Literature from the Colonial Period to the Twentieth Century (3)

A selection of major works from the beginning of the Luso-Brazilian era to the generation of 1945.

Cross-Listed as: LEH LAC 247/POR 247. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

POR 285 - Individualized Intermediate Foreign Language Study (1)

Independent study in Portuguese generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

POR 310 - Comparative Grammar (3)

Comparative analysis of English and Portuguese morphology, basic phonology, and syntax.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

POR 385 - Individualized Advanced Foreign Language Study (1)

Independent study in Portuguese generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY - Psychology

PSY 135 - Psychology of Personal Adjustment (3)

Application of psychological concepts to everyday life, with a focus on the description and understanding of human behavior. Includes topics such as personality, normal and abnormal behavior, and adjustment to stress.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 166 - General Psychology (3)

Introduction to the fundamental concepts and methods of modern psychology. Consideration of the scientific basis of psychology and of the significant problems in the areas of learning, motivation, emotion, individual differences, physiological bases of behavior, perception, developmental processes, personality, and social behavior.

Requirement Designation: Flexible Core - Individual and Society. Offered: Fall-Spring.

PSY 200 - Critical Thinking in Psychology (3)

Scientific hypothesis testing in psychology as distinguished from intuitive hypothesis testing. Topics include cognitive biases, methods for assessing argument strength, and techniques for minimizing confounds and biases.

Requirement Designation: Flexible Core - Scientific World. Offered: Fall-Spring.

PSY 201 - Science and Practice of Psychology (3)

A writing-intensive course in which students will gain experience in locating, reading, understanding, and evaluating primary empirical research from the various sub-fields within psychology and learn to use standard A.P.A. format in writing research reports, case studies, progress reports, and review papers.

Prerequisite: PSY 166. Cross-Listed as: LEH PSY 301/PSY 201. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 209 - Psychology of Women (3)

Survey of empirical and theoretical issues regarding the psychology of women, dynamics of personality, and inherent and learned factors influencing their behavior.

Prerequisite: PSY 166. Cross-Listed as: LEH PSY 209/WST 209. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 217 - Child Psychology (3)

Consideration of theories, research findings, and methodology with respect to physical growth, sensorimotor, emotional, cognitive, perceptual conceptual, language, and intellectual development of the individual prior to adolescence.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 218 - Psychology of Adolescence (3)

Adolescence as a transition between childhood and adulthood. Theory and research on age-related changes, developmental tasks and role in society. Topics include physical and cognitive development, self-concept and autonomy, family, school and peer relations, the adolescent at risk.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 219 - Psychology of Adulthood and Aging (3)

Development from adulthood to the final stages of life. Theory and research findings on age-related biological, cognitive, personality, and sensory changes. Topics include sex roles, parenting, family relationships, work, leisure, retirement, death, and bereavement.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 226 - Statistical Methods in Psychology (4)

Descriptive and inferential statistics and their applications to the analysis and interpretation of psychological data. Among the topics discussed are central tendency, variability, correlation and regression, hypothesis testing, analysis of variance, power analysis, and the relationship of research design to statistics.

Prerequisite: PSY 166, MAT 132 or MAT 172 or MAT 174 or MAT 175, and Upper Junior Status. Requirement Designation: Regular Liberal Arts.

PSY 232 - Childhood Psychopathology (3)

Study of the concept of abnormality as it applies to children and adolescents. Consideration of specific syndromes such as anxiety disorder, depression, ADHD, conduct disorders, autism, and schizophrenia with regard to etiology, diagnosis, and treatment.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 234 - Abnormal Psychology (3)

Examination of the concept of abnormality and of the major categories of psychopathology with regard to symptoms and diagnosis. Consideration of etiology and treatment of psychological disorders from psychodynamic, behavioral, cognitive, humanistic, sociocultural, and biological perspectives.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 238 - Environmental Psychology (3)

Study of the relationship of the individual and the natural and "built environment." Analysis of the psychological dimension

of problems such as pollution, crowding, and energy conservation.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 240 - Industrial/Organizational Psychology (3)

Survey of current research problems; practices in personnel selection and training; management; consumer, marketing and advertising psychology.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 245 - Psychological Testing and Assessment (3)

Basic concepts of psychological testing and assessment. Survey of the major methods of assessment and tests of general ability, aptitude, achievement, interest, and personality. Examination of the contribution of psychological tests to applied psychology and their role in contemporary society.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 248 - Introduction to Primate Behavior Studies (3)

Overview of the Order Primates as a biological entity with a focus on monkeys and apes. Methods for studying their behavior in captivity and in native habitats.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 250 - Contemporary Issues in Psychology (2)

Focused readings and analysis of a specific topic of importance in contemporary psychology.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring-Summer.

PSY 255 - Theories of Personality (3)

Review of the major theories of personality development, including the psychoanalytic, constitutional, behavioral, and biosocial.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 260 - Social Psychology (3)

Consideration of theoretical approaches, research methodology, and findings pertinent to the study of the individual in his social context. Emphasis is given to attitude formation and change, interpersonal perception, group structure and processes, leadership, conformity, and communication.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 301 - The Science and Practice of Psychology (3)

A writing-intensive course in which students will gain experience in locating, reading, understanding, and evaluating primary empirical research from the various subfields within psychology and learn to use standard A.P.A. format in writing research reports, case studies, progress reports, and review papers.

Cross-Listed as: LEH PSY 301/PSY 201. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 305 - Experimental Psychology I (4)

Theory and method of psychological experimentation and measurement as applied to the study of behavioral phenomena. Design and execution of selected experiments in such areas as learning, thinking, motivation, personality, and social behavior.

Prerequisite: PSY 166 and PSY 226 and Lower Senior Status. Requirement Designation: Regular Liberal Arts.

PSY 306 - Experimental Psychology II (4)

Continuation of PSY 305, including such areas as sensation and perception, with emphasis on independent research on selected topics.

Prerequisite: PSY 305. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 307 - Research in Social Psychology (4)

Use of laboratory and field techniques in the investigation of social psychological topics such as attitudes, conformity, social interaction, altruism, and ethics of research. Individual and group research projects in the laboratory and in the community where possible.

Prerequisite: PSY 226 and PSY 260. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 308 - Motivation and Emotion (3)

Study of motives (hunger, sex, aggression, etc.) and emotions (anger, love, fear, etc.) as underlying causes of behavior.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 310 - Psychology of Learning (3)

Survey of fundamental concepts, empirical findings, and theoretical issues in animal and human learning. Topics include conditioning, extinction, reinforcement, generalization, discrimination, problem solving, retention, and forgetting.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 312 - Psychology of Memory (3)

Theoretical issues, established findings, empirical research and contemporary controversies in the study of memory.

Analysis of the processes of encoding, storage and retrieval, including models, developmental changes, neurophysiology, and memory distortions. Consideration of the ways memory influences behavior, problem solving, and sense of self.

Prerequisite: PSY 166 Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 314 - Cognitive Psychology (3)

A consideration of the manner in which humans process, code, and store information. Current ideas and research pertaining to selective attention, short- and long-term memory, consciousness, and the constructive nature of perception and thinking.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 316 - Physiological Psychology (3)

An introduction to the nervous system and its relation to the understanding of such psychological processes as sensation, perception, attention, learning, motivation, memory, arousal, sleep, and dreaming.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 317 - Psychology of Sensation and Perception (3)

Review of the classic concepts of sensation and perception. Examination of each of the major senses, with emphasis on vision and hearing. Survey of modern perceptual formulations and appraisal of current theories.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 318 - Comparative Psychology and Ethology (3)

Comparative analysis of animal behavior with special emphasis on instinct, imprinting, and territoriality. Comparative and ethological methods in the study of learning, aggression, sexual behavior, motivation, and social organization.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 319 - Social and Emotional Development (3)

Social and emotional competencies from birth to early adulthood.

Prerequisite: PSY 166 Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 326 - Advanced Statistical Methods in Psychology (3)

Comprehensive treatment of selected topics, including experimental design and nonparametric and multivariate techniques.

Prerequisite: PSY 166 and PSY 226. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 328 - Family Psychology (3)

Study of the psychological dynamics affecting contemporary families including family structures, development, communication patterns, disorders, and treatment approaches.

Prerequisite: PSY 166. Cross-Listed as: LEH PSY 328/WST 348. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 331 - Psychology and the Law (3)

The role of psychology in the legal process. Psychological issues in problems of confidentiality; evidence and testimony; jury selection and decision making; the insanity defense.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 335 - Health Psychology (3)

Role of psychological factors in health and illness. Topics include stress related physical disorders; psychological assessment in medical settings; prevention and treatment of illness; health attitudes; management of pain; chronic and terminal illness.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 336 - The Psychology of Ethnicity (3)

The dynamics of ethnic identification. The effect of psychological, physiological, cultural, demographic, and socialization factors associated with ethnicity on individual development and behavior.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 338 - Community Psychology (3)

Consideration of the contributions of psychology to problems of social intervention in community mental health centers, schools, and the like. Review of various social intervention projects in order to study present and possible future contributions of psychology. Attention will be given to ethical problems and interdisciplinary relationships.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 340 - Evolutionary Psychology (3)

Evolutionary bases of human thought, behavior, and brain structure. Topics include the role of phylogenetic evolution on food preferences, sexual and mating strategies, parenting, kinship, group living, aggression, language, and problem solving.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 342 - The Psychology of Literacy Development (3)

Psychological processes involved in reading and literacy development, including the relations between oral language and reading/literacy development, as well as the several stages of reading development.

Cross-Listed as: LEH LNG 342/PSY 342. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 348 - History of Psychology (3)

Study of the evolution of theory and methods in psychology as it has developed from its early philosophical roots to its present status as a science and profession. The contributions of major individuals and theoretical systems and their influence on contemporary psychology will be reviewed.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 350 - Special Topics in Geropsychology (3)

Examination of selected areas in the psychology of aging. Topics to be announced each semester.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 366 - Clinical Neuropsychology (3)

Consideration of the effects of brain damage on psychological functioning, with emphasis on impairments in perception, attention, emotion, memory, and language abilities.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 410 - Learning Theory (3)

Critical evaluation of the major theories of learning, stressing an examination of relevant research methodology and experimental data.

Prerequisite: PSY 310. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 415 - Seminar in Theories of Developmental Psychology (3)

Research and theory concerning the development of human behavior from conception to death. Focus upon developmental research in the areas of cognitive, social and moral, perceptual, physiological, and linguistic psychology. Consideration of major developmental concepts such as stage, critical periods, and maturity, and of major developmental theorists such as Piaget and Erikson.

Prerequisite: PSY 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 416 - Seminar in Physiological Psychology (3)

Selected topics dealing with the physiological bases of behavior are studied in depth. Current literature in the field is emphasized.

Prerequisite: PSY 316 and instructor's permission.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 417 - Seminar in Perception (3)

Classic concepts and contemporary research in perception, with an emphasis on perceptual development and application of scientific discoveries in perception.

Prerequisite: PSY 317 or Instructor's permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 430 - Seminar in Social Psychology (3)

Examination of the application of psychological concepts and research to contemporary social and cultural issues.

Prerequisite: PSY 260. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 433 - Methods of Psychological Intervention (3)

Psychological intervention techniques: interviews, modes of counseling, behavioral- and psycho-therapies.

Prerequisite: 12 prior credits in Psychology, including PSY 234. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 434 - Seminar in Abnormal Psychology (3)

Intensive consideration of current issues and research relevant to selected problem areas.

Prerequisite: PSY 234. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 440 - Seminar in Psychological Services (2)

Analysis of field experiences.

Prerequisite: PSY 470. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 445 - Seminar in Psychological Testing and Assessment (4)

Principles, applications, and contemporary issues in psychological testing and assessment. Supervised administration, scoring, and interpretation of measures of general ability, aptitude, achievement, interest, and personality. Instruction in computerized testing applications.

Prerequisite: PSY 226. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 450 - Advanced Seminar in Contemporary Issues in Psychology (3)

(Maximum 6 credits; only 3 credits may be applied to requirements of the major.) Intensive analysis of experimental and theoretical material on specific significant problems of contemporary psychology.

Prerequisite: PSY 166 and 12 additional PSY credits and permission of the instructor. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

PSY 470 - Practicum in Psychological Services (3)

Supervised placement in one of a variety of occupational settings in which the student may obtain firsthand experience in the provision of psychological services to clients.

Prerequisite: PSY 166, PSY 234, 9 additional credits in PSY, a minimum 2.7 overall GPA, and instructor's permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

PSY 485 - Independent Study in Psychology (3 (maximum 6 credits; only 3 credits may be applied to requirements of the major))

Individual research project (e.g., lab, library, or community oriented), under the direction of a member of the Psychology faculty. Written report required for each semester of work.

Prerequisite: Department permission; 2.75 GPA; 3.0 GPA in Psychology; minimum 9 psychology credits completed at Lehman; instructor's permission. Requirement Designation: Regular Liberal Arts.

PSY 495 - Honors Research in Psychology (3)

Empirical research project under the direction of a member of the Psychology faculty that makes an original intellectual or creative contribution to Psychology. Required for graduation with Honors in Psychology. Granting of credit will be contingent upon presentation of a report of the research at a Departmental seminar and the filing of a formal APA-style research paper in the Departmental office before the end of the senior year.

Prerequisite: Department permission; PSY 485; 3.2 GPA; 3.5 GPA in Psychology; minimum 12 psychology credits completed at Lehman; instructor's permission; PSY 305 either pre- or co-requisite. Requirement Designation: Regular Liberal Arts.

REC - Recreation

REC 200 - History and Philosophy of Recreation (3)

Reviews historical development of recreation and leisure and examines theories of play and recreation and the functions of organized recreation services in the U.S. today.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

REC 210 - Recreation Leadership (3)

Leadership principles and techniques. Group processes and methods for working with diverse populations in varied recreation and leisure service settings. In-class leadership exercises and practice.

Prerequisite: Departmental permission required. Requirement Designation: Regular Non-Liberal Arts.

REC 221 - Introduction to Therapeutic Recreation Service (3)

Overview of special recreation programs provided in institutions or community settings for the physically, mentally, socially, or emotionally disabled. Examines basic concepts and models of service with field observations.

Prerequisite: Departmental permission required. Requirement Designation: Regular Non-Liberal Arts.

REC 250 - Principles and Practice of Recreational Sports Services (3)

An overview of recreational sport services, value and benefits of recreational sports, issues, and career opportunities. Conceptual and Practical foundations to understand how to design, deliver, and manage recreational sports services in various settings.

Requirement Designation: Regular Non-Liberal Arts.

REC 302 - Administration of Recreation Services (3)

Examines management theories and practices in recreation agencies and organizations. Topics include personnel management, public relations, budget and finance, and facility design and operation,

Prerequisite: Departmental permission required. Requirement Designation: Regular Non-Liberal Arts.

REC 322 - Assessment in Therapeutic Recreation (3)

Examination of assessment tools, techniques, terminology, and procedures utilized in therapeutic recreation programs.

Corequisite: REC 321. Requirement Designation: Regular Non-Liberal Arts.

REC 324 - Therapeutic Recreation for Children and Youth (3)

Examination of the role of play in typical and atypical child development. Health and social conditions that benefit from therapeutic recreation (T.R.) intervention. Treatment and inclusive settings, factors affecting participation, and T.R. program design and intervention for children and youth.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

REC 325 - Therapeutic Recreation in Long-Term Care (3)

Principles and practices of therapeutic recreation services in settings serving the elderly, with emphasis on the role of the therapeutic recreation professional in client assessment and design of appropriate interventions to address health care needs.

Prerequisite: 45 credits. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

REC 330 - Inclusive Recreation (3)

Overview of basic concepts, processes, resources, and settings as they relate to inclusive programming for individuals with disabilities. Administrative concerns, moral and legal issues, trends, challenges, accessibility guidelines and practices in regard to inclusion will be addressed.

Requirement Designation: Regular Non-Liberal Arts.

REC 360 - Selected Topics in Recreation (3)

Consideration of recent developments in recreation.

Requirement Designation: Regular Non-Liberal Arts.

REC 361 - Camp Leadership and Outdoor Recreation (3)

Foundations of outdoor recreation in urban and wilderness settings, environmental issues as they affect recreation program planning; outdoor recreation activities, management, and leadership.

Requirement Designation: Regular Non-Liberal Arts.

REC 370 - Recreation Internship (4)

Supervised placement in a recreation or leisure service agency in order to develop knowledge of professional practice through on-site experience, with emphasis on leadership and programming.

Prerequisite: REC 300, REC 320, and REC 321; and either 9 credits from REC 324, REC 325, REC 421, REC 425; or 6 credits from REC 360, REC 361, REC 422, REC 401.

Department Consent Required, Requirement Designation: Regular Non-Liberal Arts.

REC 387 - Research and Evaluation in Recreation Service (3)

Basic concepts of research and evaluation applied to the operation of recreation and park programs. Explores techniques of measurement and methods of analyzing and interpreting data.

Prerequisite: 6 credits in REC courses. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

REC 400 - Pre-Internship Seminar (1)

This course prepares students for the REC 471 Therapeutic Recreation Internship. Topics for the seminar include but not limited to the following: Internship site selection, application preparation, interviewing skills, and other professional and ethical issues.

Corequisite: REC 421. Requirement Designation: Regular Non-Liberal Arts.

REC 405 - Facility Management in Recreational Sports Services (3)

An exploration of the comprehensive management process as it relates to planning and operation of recreational sport facilities. Traditional management theory, facility

organization and management, facility operation, and standards compliance.

Prerequisite: Pre-Req: REC 200, REC 210, and REC 302.
Requirement Designation: Regular Non-Liberal Arts.

REC 410 - Advanced Financial and Human Resource Management in Recreational Sports Services (3)

Principles and practices of budgeting, pricing, fiscal and human resource management within a variety of recreational sports settings, agencies and/or organizations.

Prerequisite: Pre-Req: REC 200, REC 221, and REC 302
Requirement Designation: Regular Non-Liberal Arts.

REC 421 - Programs in Therapeutic Recreation Service (3)

Examines program services, leadership methods, and current trends and issues in therapeutic recreation service. Individual and group program planning, including assessment, activity analysis, evaluation, and documentation.

Prerequisite: REC 200, REC 210, REC 221, and REC 322
Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

REC 422 - Program Planning in Recreation (3)

Examines program development and supervision in community-based recreation programs operated by governmental, voluntary, and private agencies. Explores recreation program formats and modalities.

Prerequisite: REC 300 and REC 320. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

REC 425 - Processes and Techniques of Therapeutic Recreation (3)

The application of therapeutic recreation principles to the clinical situation, including helping skills, therapeutic group process, intervention techniques and methods, and theoretical foundations of therapeutic recreation.

Prerequisite: REC 421, and either REC 324 or REC 325.
Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

REC 470 - Senior Internship in Recreation (4)

Supervised placement in a recreation setting in which the student will receive advanced training in therapeutic recreation or in administration of recreation programs.

Prerequisite: REC 370 as a pre-requisite or co-requisite and 18 additional credits in recreation. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

REC 471 - Therapeutic Recreation Internship (1-9)

Supervised placement in a therapeutic recreation setting under the supervision of a Certified Therapeutic Recreation Specialist in which the student will receive advanced training in therapeutic recreation. (Therapeutic Recreation students are

required to complete a 560-hour internship under the supervision of a CTRS at an approved agency. Students must be registered for at least 1 credit hour of REC 471 each semester they are completing internship hours).

Prerequisite: REC 400 Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

REC 485 - Honors (3)

(maximum 6 credits). Individual study, under faculty guidance, leading to completion of an honors essay or production book in the case of creative performance.

Prerequisite: Departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

REC 493 - Special Project (1-2 (may be repeated for a maximum of 4 credits))

Independent study project in a recreation setting to gain practical experience or preparation of recreation program materials or manual, or assist with research project, under faculty guidance.

Prerequisite: Departmental permission required. Requirement Designation: Regular Non-Liberal Arts.

REH - Rehabilitation

REH 220 - Introduction to Developmental Disabilities (3)

Characteristics and needs of individuals with developmental disabilities; the developmental disabilities service system, its history, values and strategies for community-based support.

Prerequisite: 30 credits or Departmental permission.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

REH 230 - Introduction to Youth Studies (3)

Historical and contemporary influences on youth development and youth work. Development of practice based on ecological, resiliency and systems theory. Topics include: establishing relationships, working with groups, problem solving from a strengths perspective, issues relating to cultural diversity. Overview of youth work professional issues, with emphasis on ethics, value and professionalism.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

REH 240 - Principles of Psychiatric Rehabilitation (3)

Introduction to the principles and process of psychiatric rehabilitation. Emphasis on assisting persons with long-term psychiatric disabilities to function in various environments. Examination of the differences between rehabilitation and treatment, and the nature of psychiatric disability.

Prerequisite: 30 credits or Departmental permission.
Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

REH 330 - Management of Youth Serving Organizations (3)

Organizational structure, mission and services of youth serving organizations, with emphasis on program design, funding strategies, and personnel management.

Prerequisite: REH 230. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

REH 370 - Practicum in Youth Services (3)

Supervised placement in a youth services setting focusing on interactions with youth, leadership, and planning processes.

Prerequisite: REH 230, REC 320, and REC 324 or EXS 304 or REH 330. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

RUS - Russian

Note: Courses RUS 340, RUS 341, RUS 342, RUS 343, RUS 346, RUS 347, RUS 360 carry the following PREREQ: Either satisfactory completion of 30 college credits or 6 credits in RUS or other literature courses.

RUS 100 - Elementary Russian-Intensive Course (6)

Elements of grammar, reading, of simple Russian prose, practice in speaking. Represents complete 1st year course in Russian and covers the same material presented in the 2-semester sequence RUS 101-102

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 101 - Elementary Russian I (5)

Elements of grammar, reading of simple texts, practice in speaking, and audiolingual work in the Language Laboratory

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 102 - Elementary Russian II (5)

Elements of grammar, reading of simple Russian prose, and audiolingual work in the Language Laboratory.

Prerequisite: RUS 101 (or equivalent). Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 107 - Elementary Russian for General Reading Purposes I (4)

Concentrated course for beginners who wish to gain as rapidly as possible a general reading knowledge of Russian.

Designed also for prospective graduate students in any field. Fundamentals of grammar, phonology, morphology, and basic syntax.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 108 - Elementary Russian for General Reading Purposes II (4)

A continuation of RUS 107. Review of basic grammar and reading of Russian non-literary texts,. Individual reading assignments in student's special field of interest.

Prerequisite: RUS 107 (or equivalent). Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 111 - Elementary Russian I (3)

Elements of grammar, reading of simple texts, practice in speaking, and audiolingual work in the Language Laboratory.

Requirement Designation: College Option. Offered: Fall-Spring.

RUS 112 - Elementary Russian II (3)

Elements of grammar, reading of simple Russian prose, and audiolingual work in the Language Laboratory.

Prerequisite: RUS 111. Requirement Designation: College Option. Offered: Fall-Spring.

RUS 201 - Intermediate Russian I (3)

Reading of prose, including historical material. Grammar review.

Prerequisite: RUS 102 (or equivalent). Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 202 - Intermediate Russian II (3)

Grammar review, reading of prose and poetry, and composition.

Prerequisite: RUS 102 (or equivalent). Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 203 - Elements of Contemporary Russian I (3)

(For native speakers and students with native speaker competency.) The grammatical structure of today's standard Russian. Intensive practice in reading and composition. Note: RUS 203 will satisfy the College requirement in foreign language.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 220 - Russia Today (3)

An introduction to life in Russia and neighboring countries of the former Soviet Union that explores the politics, society, history, and culture of Eurasia today through a multidisciplinary approach, using a variety of media and materials.

Cross-Listed as: LEH RUS 220/POL 220. Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

RUS 281 - Intermediate Russian Tutorial (3)

(maximum 6 credits). Individual reading of prose and poetry, grammar review, oral practice, and written composition under faculty direction.

Prerequisite: RUS adviser's permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 285 - Individualized Intermediate Foreign Language Study (1)

Independent study in Russian generally linked to a course in another field.

Prerequisite: RUS 201 or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 301 - Advanced Russian I (3)

Study of problems of structure and idiomatic expressions; the art of translation. Reading of selected literary and scholarly texts. Written and oral reports.

Prerequisite: RUS 202 (or equivalent). Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 302 - Advanced Russian II (3)

Problems of style and idiomatic expressions. Reading of literary texts and folklore. Written and oral reports.

Prerequisite: RUS 301 or Departmental Placement. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 308 - Advanced Russian Grammar and Composition (3)

Intensive study of grammar, with stress on syntax and stylistics. Practice in written composition.

Prerequisite: RUS 302 (or equivalent). Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 309 - Advanced Russian Conversation (3)

(maximum 6 credits). Intensive practice in the spoken language. Discussion of literary material as well as topics from everyday life.

Prerequisite: RUS 202 (or equivalent). Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 310 - Comparative Grammar (3)

Comparative analysis of English and Russian morphology, basic phonology, and syntax.

Prerequisite: RUS 201 or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 319 - The Language of the Russian "byt." (2)

Reading and conversation on various aspects of Russian byt (life style), with particular attention to the expression of uniquely Russian customs and views.

Prerequisite: RUS 202 (or equivalent). Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 320 - Masterpieces of Russian Literature I - From the Beginning to the 1870's (1)

Analysis and discussion of excerpts in the original Russian from works treated in the survey course in English. An opportunity to study the individuality of Russia's great classics and their verbal mastery, so often masked by translation.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 321 - Masterpieces of Russian Literature II - From the 1870's to the Soviet Period (1)

Analysis and discussion of excerpts in the original Russian from works treated in the survey course in English. An opportunity to study the individuality of Russia's great classics and their verbal mastery, so often masked by translation.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 322 - Masterpieces of Russian Literature III - From 1917 to the Present (1)

Analysis and discussion of excerpts in the original Russian from works treated in the survey course in English. An opportunity to study the individuality of Russia's great classics and their verbal mastery, so often masked by translation.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 330 - Russian Literature from the Middle Ages to the Eighteenth Century (3)

Survey of Russian literature from The Lay of the Host of Igor to the classical period. Special attention is given to the development of modern literary language.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 333 - The Russian Short Story (3)

Development and growth of the Russian short story including Pushkin, Lermontov, Gogol, Turgenev, Tolstoy, Chekhov, Gorky, Bunin, and Babel.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 336 - Russian Drama to Chekhov (3)

The evolution of Russian drama from the 18th to the 20th century. Representative plays of such authors as Fonvizin,

Griboedov, Pushkin, Gogol, Ostrovsky, Tolstoy, and Chekhov.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 337 - Twentieth-Century Russian Drama (3)

See Department for Description.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 338 - Classical Russian Poetry (3)

Selected poems of the 18th and 19th centuries through the Golden Age of Russian poetry by Derzhavin, Pushkin, Lermontov, Nekrasov, Tiutchev, Fet, and others.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 339 - Modern Russian Poetry (3)

Selected poems of the 19th and 20th century, including the Silver Age of Russian poetry and contemporary Soviet verse by Blok, Mandelshtam, Esenin, Mayakovsky, Pasternak, Yevtushenko, and others.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 340 - Survey of Russian Literature from the Beginning to the 1870s (In English) (3)

Selections from medieval Russian literature and the literature of the 18th century as a background for the emergence of modern Russian romanticism and the Golden Age of Russian prose. To include both poetry and prose works by such authors as Derzhavin, karamzin, Pushkin, Lermontov, Gogol, Goncharov, Turgenev, and Dostoevsky.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 341 - Survey of Russian Literature from the 1870s to the Soviet Period (In English) (3)

Russian realism, the poetry and prose of naturalism, decadence, and symbolism and the modernist writing of the early 20th century. Representative works of such authors as Tolstoy, Saltykov-Shchedrin, Chekhov, Gorky, Bunin, Sologub, Blok, Bely, as well as poetry from the futurist and acmeist movements.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 342 - Survey of Soviet Russian Literature from 1917 to the Present (In English) (3)

Selected poetry and prose works of such authors as Mayakovsky, Babel, Sholokhov, Olesha, Zamiatin, Zoshchenko, Bulgakov, Fadeev, Pasternak, Yevtushenko, and Solzhenitsyn. Consideration of "Socialist Realism" and the problem of the political control of literature.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 343 - Survey of Russian Drama (In English) (3)

Major works of Russian dramatic literature from the early 19th century to the present by such playwrights as Griboedov, Gogol, Ostrovsky, Tolstoy, Chekhov, Gorky, Mayakovsky, Bulgakov, Shvarts, and Rozow.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 346 - Dostoevsky (In English) (3)

Dostoevsky's art and thought examined in the context of Russian European literature and philosophy. Such early fiction works of his as Notes from the Underground and the major novels Crime and Punishment and the Brothers Karamazov are considered.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 347 - Tolstoy (In English) (3)

Study of Tolstoy as artist and moralist, with reference to the Russian and European context of his works. Included are selected novels, early and later short fiction, and various political and social tracts of the pacifist Tolstoy.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 350 - Colloquium in Russian Literature (3)

Study of topics, themes, or authors from Russian literature.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 360 - Russian Authors (In English) (3)

The life and works of selected Russian authors.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 381 - Tutorial in Russian (3)

Individual study in advanced Russian under faculty direction.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 385 - Individualized Advanced Foreign Language Study (1)

Independent study in Russian, generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

RUS 491 - Honors Course in Russian (3)

A course offering qualified students the opportunity to study special topics within fields that may vary from semester to

semester. Individual research under the direction of a faculty member.

Prerequisite: Department Consent Required Requirement
Designation: Regular Liberal Arts. Offered: Fall-Spring.

SLA - Slavic

Note: Courses SLA 450, SLA 362, SLA 365 carry the following PREREQ: Either satisfactory completion of 30 college credits or 6 credits in RUS or other literature courses.

SLA 281 - Individual Study in Slavic Languages (3)

Language work as directed by a faculty member to meet the student's particular requirements.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SLA 362 - Topics and Themes in Slavic Literature (In English) (3)

Investigation of the significance and treatment of a selected problem in one or more Slavic literatures.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SLA 365 - Aspects of Slavic Culture and Civilization (In English) (3)

An examination of selected problems in the culture of one or more of the Slavic nations.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SLA 450 - Independent Study in Drama and Theatre (In English) (3)

Readings in and discussions of special aspects and problems of drama and theatre.

Cross-Listed as: LEH GER 450/SLA 450. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SLA 485 - Special Studies in Slavic (3)

Individual study and independent research in one or more of the Slavic literatures in consultation with a staff member. A project is required.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC - Sociology

SOC 166 - Fundamentals of Sociology (3)

Introduction to sociological concepts and perspectives and their applications to societies in the modern world.

Requirement Designation: Flexible Core - Individual and Society. Offered: Fall-Spring.

SOC 181 - Introduction to Data Analysis Applications for Social Science (1 (May be repeated up to three times for different specific topics))

Use of a specific programming language or application used in the social sciences.

Prerequisite: Departmental Permission. Requirement Designation: Regular Liberal Arts.

SOC 221 - The Sociology of Stress and Health (3)

Health and stress from a sociological perspective, including social stressors and their consequences for mental and physical health.

Requirement Designation: Regular Liberal Arts.

SOC 222 - The Women's Movement in the United States—Eighteenth Century to the Present (3)

The women's movement and associated problems will be seen through the eyes of women of the relevant periods. The course will present a feminist social history of a movement that is continuing to have a profound effect on our society.

SOC 223 - Quantitative Data Analysis for Social Scientists (3)

Use of quantitative social science methods to critically analyze and evaluate data. Topics include, but are not limited to: aging, education, poverty, global inequality, race and ethnicity, criminology and health. Prerequisite: A score of 60 or higher on the algebra section of the Compass exam or its equivalent as determined by the Department of Mathematics.

Prerequisite: Department Consent Required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 225 - Women and Religion (3)

Images of women in the Judeo-Christian tradition and the influences of these representations on secular phenomena such as Harlequin romances.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 227 - Sociology of the Family (3)

The family as structure and process; analysis of its institutional and interpersonal aspects and its functions in different societies.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 228 - Sociological Perspectives on Gender and Society (3)

Construction of gender at both the interpersonal and institutional levels. Topics include the intersection of gender with class, race, and sexuality in education, media, health, family, and work.

Requirement Designation: Flexible – Individual and Society. Offered: Fall-Spring.

SOC 229 - Sociology of Leisure (3)

Leisure, recreation, play, and free time examined as distinct components of nonwork behavior. Comparative analysis of the relationship between these components and social structure in pre-industrial, industrial, and, particularly, post-industrial societies.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 230 - Criminology (3)

The nature and significance of crime as a social phenomenon. Study of the sociological factors that contribute to and maintain the criminal institutional structure and the justice system in the United States.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 231 - Social Problems (3)

An analysis of social problems from the perspectives of functionalism, subculture theory, conflict theory, and labeling. Topics may include: crime, alcoholism and other drug addiction, mental illness, sexual promiscuity, and suicide.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 233 - Youth in Modern Society (3)

Analysis of the emergence of adolescent subcultures, the social role of youth, and the passage from childhood to adulthood in modern society.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 234 - Urban Sociology (3)

The study of the urban community and neighborhood; social forces responsible for the modern urban community; the ecology of cities; social pathology and urban blight; and analysis of policies for urban redevelopment.

Requirement Designation: Flexible Core - US Experience in its Diversity. Offered: Fall-Spring.

SOC 235 - Education and Society (3)

Analysis of education as a social institution, the school as a social system, and the professional and organizational roles of teachers. Special attention is given to the problems of the school in the urban community.

Requirement Designation: Flexible Core - US Experience in its Diversity. Offered: Fall-Spring.

SOC 236 - Mind, Self, and Society (3)

The impact of society on thought processes, emotions, and the conception of self. An exploration of childhood socialization,

the shedding of old identities and the development of new ones. Contexts examined may include slavery, concentration camps, religious experiences, the culture of youth, and commune life.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 237 - Ethnic Stratification (3)

Racism and ethnocentrism in the post-colonial world in two of the following areas: Africa, Asia, Latin America, and North America.

Cross-Listed as: LEH WST 237/SOC 227. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 238 - Religion in American (3)

Sociological perspectives on the development of religious diversity in the United States. Topics include the encounters among various religious groups, major religious social movements and issues of religion and state.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 239 - Sociology of Culture (3)

Production and transmission of culture within society. Topics include popular culture (such as film, television, popular music), institutions in the production of culture, and social class and culture.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 240 - Death, Dying, and Bereavement (3)

Sociological perspectives surrounding death, dying and bereavement. Topics include: cultural norms and beliefs regarding death and life after death, diversity in death rituals and practices, processes of grief and mourning, the American funeral industry, legal aspects of dying, end-of-life care and decision making, ethical dilemmas surrounding death and dying, and variation in patterns of mortality.

Cross-Listed as: LEH NUR 240/SOC 240. Requirement Designation: Flexible Core - Individual and Society. Offered: Fall-Spring.

SOC 242 - Anti-Semitism from Early Christianity to Hitler (3)

The origins of the conflict between Christianity and Judaism, and the fate of the Jews in Medieval Europe. The gradual liberation and assimilation of the Jews of Western Europe, 1789-1870. The rise of modern racism and anti-Semitism in Europe, 1889-1939. Hitler, the Nazis, and the destruction of European Jewry. Anti-Semitism in the contemporary world. Social-psychological and cultural theories of anti-Semitism will be considered.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 243 - The Aged in Modern Society (3)

The changing role of the elderly in the family and work force; styles of life of the elderly; systems and organizations that service the elderly; problems of leisure and retirement.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 245 - Social Processes of Global Interdependencies (3)

Analysis of major processes of change in Africa, Latin America, Middle East, and Southeast Asia. Theories of development applied to migration, population growth, urbanization, class structure, revolution and reform.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 249 - Sociological Perspectives on Communication in Society (3)

Role of media in the formation of identity, political opinion, subjectivity (racial, gender and sexual), celebrity, and ethics. Distinctions between interpersonal and mediated communication.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 250 - Racial and Ethnic Communities in the United States (3)

Sociological description and analysis of a specific racial or ethnic community.

Cross-Listed as: LEH ANT 250/IAS 250/SOC 250.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 251 - Special Studies in Sociology (3)

May be taken for a maximum of 6 credits (two different topics). Investigation of theories, issues, and methods. Topic to be announced each semester.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 252 - Religious Groups (3)

Sociological description and analysis of a specific religious group or groups in the United States or around the world: Catholics, Protestants, Jews, Muslims, or others. May be repeated, with permission of the Chair, when topic is different.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 255 - Selected Topics in Social Policy (3)

Analysis of one area of policy in the United States, as it has developed historically and as it compares with policies in other countries. Possible areas include immigration, adoption and health care.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 256 - Juvenile Justice (3)

Introduction to the juvenile justice process and major theories of delinquency causation in the United States, with special reference to New York.

Offered: Fall-Spring.

SOC 281 - Tutorial in Sociology (1-3)

A course offering the beginning student interested in Sociology the opportunity to do individual reading and writing under the direction of a Sociology Department faculty member. Subject to be agreed upon between student and instructor. Number of credits to be determined in consultation with faculty advisor prior to registration.

SOC 300 - The Sociological Imagination (4)

Close analysis of exemplary sociological texts and empirical data. Genres of sociological expression examined include literature reviews, quantitative and qualitative data analyses and theoretical exegesis, research ethics and information literacy for sociology.

Prerequisite: SOC 166 or any 200-level SOC course, and a Sociology Grade Point Average (GPA) of 2.0 or better.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 301 - Methods of Social Research (4)

Methods of data collection and interpretation; measures of central tendency, variation and change; preparation and reding of tables and graphs; and the use of quantitative data to evaluate hypotheses and draw conclusions about the social world. Extensive use of computer applications.

Prerequisite: Either SOC 166 or POL 166 or any 200-level Sociology or 200-level Political Science course. Cross-Listed as: LEH POL 246/SOC 301. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 302 - Sociological Theory (4)

Classical theorists (Marx, Durkheim, Weber) and a selection of twentieth century and contemporary theorists. Includes reading, analysis, and uses of sociological theory.

Prerequisite: SOC 300 with a grade of C- (1.7) or better.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 303 - Advanced Methods of Social Research (4)

Systematic and scientific procedures for conducting social research. Consideration of the strategies of research design and elements of data-gathering techniques.

Prerequisite: SOC 301 or POL 331. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 304 - Collective Behavior (3)

Analysis of the extraordinary behavior characteristic of such phenomena as fads, fashions, panics, the aftermath of disasters, riots, mass hysteria, and conversion experiences.

Prerequisite: SOC 166 or any 200-level SOC course.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 305 - Sociology of Health Care (3)

Analysis of health and illness as sociocultural phenomena; the structure and functioning of the healthcare system and the medical profession; the social role of the patient; and social factors in the incidence of illness.

Prerequisite: SOC 166 or 1 (2) level SOC Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 306 - Economic and Workplace Inequality (3)

Class, gender and racial-ethnic variations in economic and workplace inequality. Topics include a comparative analysis of public policies which advance economic justice in the U.S. and other capitalist societies.

Prerequisite: SOC 166 or 1 (2) level SOC. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 307 - Mass Communication and Public Opinion (3)

The function of communication in mass society, including media such as television, film, radio, and newspapers. Attention to the social process of public-opinion formation and the diffusion of ideas.

Prerequisite: SOC 166 or any 200-level sociology course.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 308 - Modern Organizations (3)

Theories and comparative analysis of the structure, functioning, and problems of organizations and bureaucracies, such as corporations, religious institutions, schools, and prisons.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 309 - Social Inequality (3)

A comparative analysis of the inequalities of class, race, ethnicity, religion, and gender in contemporary societies.

Prerequisite: SOC 166 or any 200 level SOC course.
Requirement Designation: Regular Liberal Arts.

SOC 310 - Knowledge, Science, and Society (3)

The social construction of reality. Relationships between culture, including knowledge, and social structure. The cultural and social bases of science. Science in totalitarian and democratic societies. Science in the university, in industry, and in government. The social process of scientific discovery. Selected ethical problems concerning science in modern society.

Prerequisite: SOC 166 or any 200-level SOC course.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 311 - Social Scientific Perspectives on Health and Disability (4)

Use of quantitative social science methods to understand health and disability. Topics include definitions of health and disability, demographic information on health and disability, library research, development of hypotheses, primary data analysis, and interpretations of research findings on health and disability. Extensive use of computers.

Prerequisite: SOC 166 or any 200-level Sociology course.
Requirement Designation: Regular Liberal Arts.

SOC 312 - Sociology of Economic Development (3)

The interrelationship between social factors and economic development. Issues examined include socio-political change, industrialization, economic policy, globalization, sustainability, and inequality.

Prerequisite: SOC 166 or any 200 level SOC course. Cross-Listed as: LEH ECO 312/BBA 308/SOC 312. Requirement Designation: Regular Liberal Arts.

SOC 319 - Population and Society (3)

Theoretical approaches to population studies and their empirical applications. Causes and consequences of births, deaths, and migration internationally and in the U.S. and their influences on population size, change, composition and distribution.

Prerequisite: SOC 166 or any 200 level SOC course.
Requirement Designation: Regular Liberal Arts.

SOC 320 - Immigration and Adaptation (3)

Theories of migration and the empirical patterns of immigration in the United States and other leading receiving countries. Focus on immigrant adaptation, intergenerational relationships, race/ethnic relations, and economic and policy consequences.

Prerequisite: SOC 166 or any 200-level SOC course.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 321 - The Sociology of Food and Nutrition (3)

Sociological perspectives on the production, distribution and consumption of food, cooking techniques, and the political-economy of food. Topics include food, society and culture; class, ethnicity and food; and trends and developments in the food industry.

Prerequisite: SOC 166 or any 200-level SOC course.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 322 - Sociology of Gender and Reproduction (3)

Reproductive issues from birth control and the medicalization of childbearing to fetal and neonatal health, infertility, and new reproductive and genetic technologies. Emphasis on the influence of gender and race on reproductive politics, ideologies, and practices.

Prerequisite: SOC 166 or any 200 level SOC course. Cross-Listed as: LEH WST 322/SOC 322. Requirement Designation: Regular Liberal Arts.

SOC 323 - Social Movements, Social Inequality and Public Policy (3)

Social movements as responses to and solutions for social inequality and public policy. Theoretical review, as well as in depth studies of the labor, civil rights, and women's movements.

Prerequisite: SOC 166 or any 200-level SOC course.

Requirement Designation: Regular Liberal Arts.

SOC 324 - Political Sociology (3)

The examination of power and its impact on economic and political systems across societies.

Prerequisite: SOC 166 or any 200-level SOC course.

Requirement Designation: Regular Liberal Arts.

SOC 325 - Society, Economy, and Polity in the Middle East (3)

Analysis and evaluation of the interactions among these three spheres of human activity as they pertain to the Middle East.

Prerequisite: SOC 166 or any 200-level SOC course.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 326 - Political Socialization (3)

An examination of the agents and channels of political socialization, such as the family, schools and colleges, youth subcultures, peers, media, and life experiences from childhood to early adulthood. The impact of various forms of political socialization on conventional and unconventional political attitudes, opinions, and activities. Special problems of political socialization, such as generational conflict, sexual differences in political orientations, impact of childhood

learning on leaders and followers, and national, class, and other group differences.

Prerequisite: POL 166 or POL 326. Cross-Listed as: LEH POL 326/SOC 326. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 327 - Sociology of American Policy Making (3)

Roles of social movements, interest groups and the general public in determining which policy proposals are enacted into law. Emphasis on the influence of various racial and ethnic groups in the policymaking process.

Prerequisite: SOC 166 or any 200-level SOC course.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 328 - Sociological Perspectives on the Dynamics of Gender (3)

Theoretical and empirical issues regarding the ways in which gender relationships influence and are influenced by economic, political and social institutions.

Prerequisite: SOC 166 or any 200-level course. Cross-Listed as: LEH SOC 328/POL 328/MES 328. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 330 - Adoption Policy and Children's Rights (3)

Trends in domestic and international adoption policy in the US and how policy shifts result from the conflicting values of national and international groups.

Prerequisite: SOC 166 or any 200- level SOC course. Offered: Fall-Spring.

SOC 331 - Sociology of Art (3)

Sociological examination of the topic of art focusing on the relationship of art, society and culture, and using sociology of culture analytic tools to examine art sociologically. Understandings of the concept of art and the contexts of its creation and understanding.

Prerequisite: SOC 166 or any 200- level SOC course. Offered: Fall-Spring.

SOC 332 - Religion and Society (3)

Religion as a social institution; its interrelation with the family, the economy, the polity, and social class. Social role of religious organizations and their impact on the functioning of the total society.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 333 - Sociology of Disability (3)

The role of social, political, economic and historical factors that have produced the condition of disability. Ways in which disability parallels and often overlaps with other minority statuses.

Prerequisite: SOC 166 or any 200 level SOC course. Cross-Listed as: LEH DST 333/SOC 333. Requirement Designation: Regular Liberal Arts.

SOC 334 - Urban Sociology in Global Perspective (3)

Political-economic and socio-cultural dimensions of the global urban transformation.

Prerequisite: SOC 166 or any 200 level SOC course.
Requirement Designation: Regular Liberal Arts.

SOC 335 - Global and Cross-Cultural Perspectives on Education and Society. (3)

Connections between education and society, from a global and comparative perspective. Focus on systems of social inequality based on relevant data from the U.S. and other nations and cultures.

Prerequisite: SOC 166 or any 200-level SOC course.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 336 - Education and Inequality (3)

Differences in access to, experiences in, and outcomes from schooling for categories including social class, race, ethnicity, gender, sexuality, age, ability, and/or nationality.

Prerequisite: SOC 166 or any 200-level SOC course.
Requirement Designation: Regular Liberal Arts.

SOC 338 - Race and Ethnicity in Society (3)

Sociological perspectives on race and ethnic relations in the United States and other societies.

Prerequisite: SOC 166 or any 200 level SOC course. Cross-Listed as: LEH AAS 338 / PHI 338 / SOC 338. Requirement Designation: Regular Liberal Arts.

SOC 339 - American Demography (4)

A computer based course organized around using United States census data to examine the causes and consequences of demographic change.

Prerequisite: SOC 301. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 343 - Sociological Theories of Aging (3)

An in-depth overview of sociological theories of aging that address the roles and relationships of older adults within changing social structures in the United States. Reasons for variations and inconsistencies in addressing the diversity of experiences in aging will also be discussed.

Prerequisite: SOC 166 or any 200-level SOC course.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 344 - Field and Interpretative Methods (4)

Design, collection and analysis of qualitative data in sociological research. Topics include participant observation,

in-depth interviewing, biographical methods, content analysis, archival research, photovoice methodology, and ethnographic research. Students will focus on some of these methodological approaches.

Prerequisite: SOC 166 or any 200-level sociology course.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 345 - Quantitative Analysis of Sociological Data (4)

An introduction to data analysis with descriptive and inferential statistics; graphing and other visual presentations of data analysis; statistical programming. Extensive use of computers.

Prerequisite: SOC 301 with a grade of C- or better.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 348 - Reasoning with Data (3)

Use of data to analyze issues, evaluate arguments, test hypotheses, draw conclusions and make decisions. Considers the role of chance and systematic bias in the production of data. Exploration of concepts such as experimental and statistical control and the simultaneous consideration of multiple variables.

Prerequisite: Completion of College Math Requirement or MAT 128 or MAT 328, and PHI 169 or a 200-level Sociology course, or Department Permission. Requirement Designation: Regular Liberal Arts.

SOC 350 - Selected Topics in Race and Ethnicity (3)

May be taken for a maximum of 6 credits (two different topics). Theories, issues and methods in race and ethnicity. Topic to be announced each semester.

Prerequisite: SOC 166 or any 200-level SOC course.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 351 - Issues and Problems in Sociological Theory (3)

An exploration of issues in sociological theory such as the current status of symbolic interactionism, ethnomethodology as a theoretical orientation, the functionalist perspective, or DeTocqueville and his heirs.

Prerequisite: SOC 166 or any 200-level SOC course.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 352 - Selected Topics in Social Research (3)

Issues and problems in social research. Extensive use of computer applications.

Prerequisite: SOC 166 or any 200 level SOC course and SOC 301. Requirement Designation: Regular Liberal Arts.

SOC 353 - Selected Topics in Sociology (3 (may be repeated for a maximum of 6 credits))

Investigation of theories, issues, and methods on various topics in Sociology.

Prerequisite: SOC 166 or any 200-level Sociology course.
Requirement Designation: Regular Liberal Arts.

SOC 354 - Philosophy of the Social Sciences (3)

Study of some of the problems involved in the social sciences. Possible topics include the structure of theories in the social sciences, methods of inquiry, the nature of human action, and the relationship between knowledge in the social and natural sciences.

Prerequisite: SOC 166 or any 200 level SOC course. Cross-Listed as: LEH CLT 354/PHI 354/SOC 354. Requirement Designation: Regular Liberal Arts.

SOC 402 - Methods of Data Collection and Analysis (3)

Collection and analysis of sociological data, with extensive use of computer applications.

Prerequisite: SOC 301 and SOC 303.

SOC 450 - Seminar in Selected Problems of Sociology (3)

(maximum 6 credits). Reading, discussion, and papers on significant problems in the field of sociology. Conducted by various members of the Department.

Prerequisite: SOC 300, SOC 301, at least 6 additional credits in SOC and Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 460 - Honors Seminar - Special Topics (3 credits (maximum 6 credits).)

Special topics to be announced.

Prerequisite: 75 college credits and departmental permission.

SOC 470 - Seminar and Internship Program in New York City Government (4)

Students will attend weekly seminars on problems of New York City government and will serve from eight to ten hours a week as administrative assistants in New York City government offices and agencies.

Prerequisite: Chair's permission. Cross-Listed as: LEH POL 470/SOC 470. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SOC 481 - Advanced Tutorial in Sociology (3 (may be repeated for a maximum 6 credits))

Subject to be agreed upon between student and instructor.

Prerequisite: SOC 300 and SOC 301 and Departmental Permission. Requirement Designation: Regular Liberal Arts.

SPA - Spanish*Fundamental Spanish Language Skills***SPA 101 - Elementary Spanish I (4)**

(For students with no prior knowledge of Spanish.) Elements of grammar, reading of simple texts, and practice in speaking. Audio-lingual work in the Language Laboratory.

Prerequisite: Department Consent Required Cross-Listed as: LEH SPA 111/SPA 105/SPA 101. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 102 - Elementary Spanish II (5)

Elements of grammar, reading of ordinary Spanish prose, and training in oral and written expression. Audiolingual work in the Language Laboratory.

Prerequisite: SPA 101 or Departmental Placement. Cross-Listed as: LEH SPA 112/SPA 108/SPA 106/SPA 102. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 103 - Elementary Spanish I (4)

An intensive beginning course with emphasis on basic elements of grammar, vocabulary, reading, and conversation.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 104 - Elementary Spanish II (5)

(For students with aural comprehension of Spanish.) A beginning course, with emphasis on elements of grammatical structures and practice in reading, writing, and oral exposition.

Prerequisite: SPA 103 or placement by Departmental examination. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 105 - Elementary Spanish I (3)

Study of pronunciation and the elements of Spanish grammar, reading of simple texts, and oral practice.

Cross-Listed as: LEH SPA 111/SPA 105/SPA 101.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 106 - Elementary Spanish II (3)

Study of pronunciation and the elements of Spanish grammar, reading of simple texts, and oral practice.

Cross-Listed as: LEH SPA 112/SPA 108/SPA 106/SPA 102.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 107 - Elementary Spanish: Intensive Course (6)

Study of pronunciation and the elements of Spanish grammar, reading of simple texts, and oral practice.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 108 - Elementary Spanish III (3)

Study of pronunciation and the elements of Spanish grammar, reading of simple texts, and oral practice.

Cross-Listed as: LEH SPA 106/SPA 102/SPA 108.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 111 - Elementary Spanish I (3)

(For students with limited or no prior knowledge of Spanish, as determined by Department placement procedures.) Elements of communication, grammar and culture. Reading of simple texts, and practice in speaking. Oral practice in the Language Laboratory. Course taught in Spanish.

Prerequisite: Department permission required. Cross-Listed as: LEH SPA 111/SPA 105/SPA 101. Requirement Designation: College Option. Offered: Fall-Spring.

SPA 112 - Elementary Spanish II (3)

Elements of communication, grammar and culture. Development of oral and written expression and comprehension. Oral/aural practice in the Language Laboratory. Course taught in Spanish.

Prerequisite: SPA 111 or Department placement exam. Cross-Listed as: LEH SPA 112/SPA 106/SPA 102. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 113 - Elementary Spanish for Heritage Speakers I (3)

An intensive beginning course with emphasis on basic elements of grammar, vocabulary, reading, and conversation. Note: Placement by Departmental examination.

Prerequisite: Department Consent Required Requirement Designation: College Option. Offered: Fall-Spring.

SPA 114 - Elem Span-Heritage Speakers II (3)

A beginning course with emphasis on elements of grammatical structures and practice in reading, writing and oral exposition.

Prerequisite: SPA 113 or placement by Department examination. Requirement Designation: College Option. Offered: Fall-Spring.

SPA 201 - Intermediate Spanish Grammar (3)

Grammar review, extensive reading, composition, and oral practice.

Prerequisite: SPA 102 or Placement Exam. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 202 - Intermediate Spanish Reading (3)

(Closed to native speakers.) Problems in oral and written expression through reading and discussion of contemporary Spanish and Spanish-American texts. Discussion in Spanish.

Prerequisite: SPA 201 or placement by Department adviser.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 203 - Elements of Contemporary Spanish I (3)

(For native or near-native speakers.) The grammatical structure of today's standard Spanish. Intensive practice in reading, speaking, and elementary composition.

Prerequisite: SPA Adviser's written permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 204 - Elements of Contemporary Spanish II (3)

(For native or near-native speakers.) Sources of vocabulary, word formation, and problems in oral and written expression. For native speakers already proficient in grammar and written expression who wish to continue their study of the structure of the language.

Prerequisite: SPA 203 or Departmental Placement.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 207 - Conversational Spanish (3)

A course designed to improve students' skills in speaking and understanding everyday Spanish.

Prerequisite: Department Consent Required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 208 - Intermediate Spanish Conversation (3)

Discussion of relevant topics in Spanish for the purpose of further developing the students' ability to deal with realistic situations they may encounter in their profession and social contact with Hispanic communities in this country and abroad.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 231 - Spanish Literature in Translation I (3)

Masterpieces of the Renaissance and the baroque.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 232 - Spanish Literature in Translation II (3)

Significant works of the 19th and 20th centuries.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 233 - Latin American Literature in Translation (3)

The poetry, novel, and essay of the nineteenth and twentieth centuries.

Cross-Listed as: LEH LAC 233/SPA 233. Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

SPA 234 - Cervantes and the Modern Novel (3)

Cervantes's artistic creation and its relation to the culture of the sixteenth and seventeenth centuries. Discussion and readings in English.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 250 - Contemporary Problems in the Hispanic World (3)

Reading and discussion in Spanish of selected texts dealing with problems such as the search for identity, nationalism, and the conflict between tradition and change.

Cross-Listed as: LEH LAC 250/SPA 250. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 251 - Topics in Spanish Literature and Spanish-American Literature (3)

Study in depth of special topics or authors, varying from semester to semester. Discussions and oral and written reports in English.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 265 - Contemporary Literature of Spain and Spanish America (3)

Contemporary trends in fiction, drama, and poetry as represented in the works of distinguished authors of Spain and Spanish America. Topics may vary from semester to semester.

Prerequisite: For continuing students, SPA 202, SPA 203, and SPA 204; for entering students, appropriate proficiency as shown on placement test. Cross-Listed as: LEH LAC 265/SPA 265. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 266 - Business Spanish and Correspondence (3)

Business and commercial Spanish for the student planning either to teach business education in a bilingual program or to work in a nonteaching position requiring this special training.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 281 - Tutorial (3)

Language work as directed by a faculty member to meet the student's specific needs (aspects of Spanish grammar, law enforcement, social work, health professions, etc.)

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 285 - Individualized Intermediate Foreign Language Study (1)

Independent study in Spanish generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 293 - Workshop in Creative Writing (3)

Theory and practice of creative writing. Students' writings and class criticism of poetry and prose. Individual conferences.

Prerequisite: SPA 204 and Departmental permission.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 300 - Introduction to Literary Studies (3)

Literary genres and principles of literary analysis through readings of representative Spanish and Spanish-American authors. This course provides the necessary training to do advanced work in literature.

Prerequisite: SPA 202 or SPA 204 or Departmental Placement. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 301 - Spanish Literature from the Middle Ages to 1700 (3)

Survey of major works from an historical and cultural perspective.

Prerequisite: SPA 300 or Departmental Placement. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 302 - Spanish and Spanish American Literature from the Eighteenth to the Twentieth Century (3)

Survey of major trends and works of Spain and Spanish America from an historical and cultural perspective.

Prerequisite: SPA 300 or Departmental Placement. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 305 - Advanced Conversation (3)

Intensive practice designed to develop fluency and accuracy in oral expression and comprehension.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 306 - Advanced Spanish Composition (3)

Intensive practice in writing Spanish and in the translation of standard English prose into Spanish.

Prerequisite: SPA 202 or SPA 204 or Departmental Placement. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 307 - Translation (3)

Translation of nonliterary, nontechnical texts of expository prose into Spanish and English. Use of the translator's basic tools. Emphasis on the expansion of vocabulary and on the morphological and syntactical differences in both languages.

Prerequisite: Department Consent Required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 308 - Spanish Phonetics and Diction (3)

Descriptive study of the Spanish sound system. Practice in phonetic perception, transcription, and articulation. Attention to sentence phonetics: juncture, stress, pitch.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 309 - Advanced Spanish Grammar (3)

Grammar of the Spanish language, with emphasis on the syntactical and semantic features.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 310 - Comparative Grammar (3)

Comparative analysis of English and Spanish morphology, basic phonology, and syntax.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 3120 - Spanish for the Health Professions (3)

Practical review of grammar and vocabulary through oral and written comprehension and production of healthcare texts, with attention to translation, patient/practitioner dialogue, and related cultural issues.

Prerequisite: SPA 202 or SPA 204.

SPA 3180 - Spanish Dialectology and Sociolinguistics (3)

Major theoretical and practical foundations of sociolinguistic variation (dialectal, social, dialect/language contact) in primarily Spanish-speaking communities and principal methods of sociolinguistic research and discourse analysis. Implications for teaching Spanish.

Prerequisite: SPA 309 or Department permission.

SPA 3190 - Hispanic Culture (3)

The interdisciplinary study of a variety of practices and products (film, popular festivals, literary texts, music, art) of the Hispanic World.

Prerequisite: SPA 202 or SPA 204.

SPA 320 - Spanish American Literature of the 19th Century (3)

Readings of representative authors.

Prerequisite: Pre-requisite SPA 300 or Departmental Placement Cross-Listed as: LEH LAC 320/SPA 320. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 321 - Neoclassicism and Romanticism in Spain (3)

Readings from representative works of the eighteenth and nineteenth centuries.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 322 - Realism in the Spanish Narrative (3)

Representative works of nineteenth-century realist fiction in Spain.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 323 - Spanish Novel and Lyric Poetry of the Golden Age (3)

Study of the narrative and lyric traditions of the Renaissance and Baroque.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 329 - Literature of the Dominican Republic (3)

Study of the literary figures and literary works instrumental in the development of a national literature in the Dominican Republic during the twentieth century.

Cross-Listed as: LEH LAC 329/SPA 329. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 330 - Twentieth-Century Spanish Literature (3)

Narrative, poetry, drama, and essay of the Generations of 1898 and 1927.

Prerequisite: SPA 300. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 331 - Cervantes's Don Quixote (3)

Don Quixote and the birth of the Modern European novel.

Prerequisite: Department Consent Required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 332 - Spanish-American Fiction of the Twentieth Century (3)

Critical readings of twentieth-century narrative texts.

Cross-Listed as: LEH LAC 328/SPA 332. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 333 - Spanish American Literature of the Conquest (3)

A study of texts from the period of the Spanish Discovery and conquest of the New World through the period of colonization. Letters, diaries, chronicles, poems, histories, and travel narratives will be read.

Cross-Listed as: LEH LAC 333/SPA 333. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 339 - Latino Literature (3)

English-language literature developed by Puerto Ricans, Chicanos, Cubans, Dominicans, and other Latino groups in the U.S. Emphasis on the similarities in the development of

themes, structures, and genres, and relationships with mainstream American literature.

Cross-Listed as: LEH ENG 339/LAC 339/SPA 339.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 340 - Spanish Literature of the Middle Ages (3)

Selected representative works of medieval genres, such as epic and romance, ballads, short fiction, *La Celestina*.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 341 - Spanish "Comedia" of the Golden Age (3)

Origins of the Spanish theatre and the major playwrights of the sixteenth and seventeenth centuries.

Prerequisite: Department Consent Required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 342 - Spanish Literature after the Civil War (3)

Narrative, poetry, drama, and photo essay in Spain after 1939.

Prerequisite: SPA 300 or Departmental Placement.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 343 - Twentieth-Century Latin American Poetry (3)

Study of the major trends in Latin-American poetry from *el modernismo* to the present. Among the major poets to be studied are Dario, Lugones, Huidobro, Borges, Vallejo, Neruda, Parra, Paz, and others.

Prerequisite: SPA 300 or Departmental Placement. Cross-Listed as: LEH LAC 344/SPA 343. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 344 - Latin American and Spanish Modernismo (3)

Late 19th- and early 20th-century Latin American and Spanish literary works. Modernista poetry, narrative, and chronicles. Taught in Spanish.

Prerequisite: SPA 300 or departmental permission
Requirement Designation: Regular Liberal Arts.

SPA 3450 - History of the Spanish Language (3)

The life of languages. Special emphasis on semantic change; how new words are created, how their meanings change through time, as well as in the wide and varied geographical areas where Spanish is spoken.

Prerequisite: SPA 202 or SPA 204 or Departmental permission. Cross-Listed as: LEH LNG 3450/SPA 3450. Offered: Fall-Spring.

SPA 346 - Introduction to Mexican and Chicano/a Literatures (3)

Major themes in Mexican and Chicano/a literatures within their specific historical and sociopolitical contexts.

Prerequisite: Department Consent Required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 347 - Hispanic Women Authors (3)

Literary productions written by Hispanic female authors. Canonic and non-canonic works of poetry, narrative, theatre, and other literary genres. Discussions around gender, feminism, canon formation, cultural representation, and other connected ideas are central to the course. Taught in Spanish.

Prerequisite: SPA 300 or departmental permission
Requirement Designation: Regular Liberal Arts.

SPA 348 - Literatures of South America (3)

Literary works produced in South America and/or by South American authors. Taught in Spanish.

Prerequisite: SPA 300 or departmental permission
Requirement Designation: Regular Liberal Arts.

SPA 349 - Literatures from Central America (3)

Literary works produced in Central America and/or by Central American authors. Taught in Spanish.

Prerequisite: SPA 300 or departmental permission
Requirement Designation: Regular Liberal Arts.

SPA 352 - Special Topics in Hispanic Literature (3 (Maximum 9 credits))

May be repeated when topics change. Study of selected themes (e.g., women) or modes (e.g., parody) or literary forms and strategies (e.g., first person narrative) in Peninsular and/or Spanish American literatures.

Prerequisite: Department Consent Required. Cross-Listed as: LEH LAC 352/SPA 352. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 357 - Special Topics in Spanish Language (3)

Study of selected topics dealing with language and literature, such as elements of style, rhetorical structure, levels of discourse.

Prerequisite: Department Consent Required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 358 - Spanish Civilization (3)

Topics in the study of the development of Spanish institutions and the cultural history of Spain.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 359 - Spanish American Civilization (3)

Topics in the study of the culture and civilization of Spanish America as seen in its literature.

Prerequisite: SPA 202 or SPA 204 or Departmental Consent. Cross-Listed as: LEH LAC 359/SPA 359. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 360 - Special Topics in Spanish (Peninsular) Literature (3)

Study of selected themes (e.g., women) or modes (e.g., parody) or literary forms and strategies (e.g., first person narrative) in Peninsular literature.

Prerequisite: Department Permission. Requirement Designation: Regular Liberal Arts.

SPA 362 - Special Topics in Latin American Literature (3)

Study of selected themes (e.g., women) or modes (e.g., parody) or literary forms and strategies (e.g., first person narrative) in Spanish/ Latin American literature.

Prerequisite: Department Permission. Requirement Designation: Regular Liberal Arts.

SPA 366 - Short Fiction in the Hispanic World (3)

The study of literary trends, periods, and themes within short fiction in the Hispanic context.

Prerequisite: SPA 300 or departmental permission
Requirement Designation: Regular Liberal Arts.

SPA 367 - Latin American Literary and Cultural Connections to the World (3)

Connections between Latin American Culture and the rest of the World. Culture, literature and other arts. Globalization, cosmopolitanisms, travel literature, migration and identity. Taught in Spanish.

Prerequisite: SPA 300 or departmental permission
Requirement Designation: Regular Liberal Arts.

SPA 370 - Internship (3)

Supervised field placements in translation agencies, tutoring centers, and other environments needing foreign language expertise.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 381 - Tutorial (3)

Opportunity for a student to pursue individual research and reading on a specific topic under close faculty supervision.

Prerequisite: Department Consent Required. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 385 - Individualized Advanced Foreign Language Study (1)

Independent study in Spanish generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 450 - Advanced Seminar (3)

Study in depth of special topics of Spanish and Spanish-American literature, which will vary from semester to semester. Written and oral reports.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 481 - Honors Course in Spanish Special Studies in Spanish-American Literature (3)

A course offering qualified students the opportunity to study aspects of Spanish American literature. Guided individual research. Group meetings, individual conferences, oral and written reports.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPA 482 - Honors Course in Spanish Special Studies in Spanish Literature (3)

A course offering qualified students the opportunity to study special topics of Spanish literature. Guided individual research. Group meetings, individual conferences, oral and written reports.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPE - Speech

SPE 205 - Oral Interpretation of Literature I (3)

Analysis and performance of selected works of poetry, prose, and drama.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPE 215 - Nonverbal Communication (3)

Study of nonverbal communication including body language, paralanguage and proxemics.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPE 302 - Oral Interpretation of Literature II (3)

Continuation of Oral Interpretation of Literature I, with emphasis on refining performance techniques and combining separate selections into a program.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPE 303 - Ensemble Reading (3)

Principles and practice in readers theatre, choral speaking, and other ensemble techniques. Adaptation and preparation of novels, short stories, plays, and verse for group presentation.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPE 402 - Special Forms of Oral Interpretation (3)

Examination of unconventional approaches to conventional literature and literature which requires a special approach because of its form. Techniques of combining and staging works of literature in innovative ways.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPS - Special Studies**SPS 475 - Special Studies in Political Science: Summer and Spring Internships (6 or 15)**

Summer session or Fall semester, 6 credits; Spring semester, 15 credits. The CUNY Washington Internship, sponsored by CUNY's Rogowsky Internship Program in Government and Public Affairs, is offered in the Summer session and is selective and highly competitive (for applications see the Program advisor in the Department of Political Science). Students spend the month of June and most of the month of July in Washington working full time at their internship sites, primarily in Congressional and other Federal offices. The program includes evening academic activities in Washington, overseen by the Rogowsky staff, as well as a required journal and term paper. The spring Albany Internship is the New York State Assembly Session Internship and includes the internship itself (full days Monday through Friday), as well as other academic components and a course, taught by two professors in residence during the evenings. Students are in Albany from the first week of January through the middle of May.

Prerequisite: Departmental permission.

SPV - Speech and Voice**SPV 101 - Introduction to American Sign Language I (3)**

Elements of basic grammar, practice in signed receptive and expressive skills. A brief spoken orientation to the history of the deaf community and its culture will be given to offer an appropriate context in which to use the language. Students are expected to spend additional hours in the language lab.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPV 102 - Introduction to American Sign Language II (3)

Continuation of elementary American Sign Language I, emphasizing vocabulary development and increasing fluency in the language structure: regional and stylistic variations in American Sign Language; advanced work in deaf culture, folklore, and literature. Students are expected to spend additional hours in the language lab.

Prerequisite: SPV 101. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPV 228 - Introduction to Audiology (3)

Introduction to the anatomy and physiology of the auditory system; causes and treatment of disorders in hearing, balance and auditory processing; the relevant diagnostic and therapeutic techniques for these disorders; exploration of the effect of hearing loss across the lifespan.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

SPV 245 - Articulatory Phonetics (3)

Fundamentals of articulatory phonetics; descriptive analysis of spoken forms of American English and other languages.

Cross-Listed as: LEH LNG 245. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPV 246 - Introduction to Linguistics (3)

Descriptive linguistics and analysis of phonology, morphology, syntax, semantics, and pragmatics.

Cross-Listed as: LEH LNG 246 / SPV 246. Requirement Designation: Flexible Core - Scientific World.

SPV 247 - Anatomy and Physiology of the Speech Mechanism (3)

Anatomy, physiology, and neurophysiology of the speech and vocal mechanism; physiological studies of speech.

Cross-Listed as: LEH LNG 247. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPV 248 - Acoustic Phonetics (3)

Theoretical experimental approaches to speech acoustics. The analysis and synthesis of the speech wave. Acoustic cues for speech perception.

Prerequisite: SPV 245. Offered: Fall-Spring.

SPV 300 - Neurolinguistics of Aging (3)

The speech, language, and communication changes, plus related cognitive changes, associated with healthy aging, as well as the communication disorders associated with atypical aging, including stroke, dementia of the Alzheimer's type, and frontotemporal dementia. Review of the etiology and characteristics of these disorders in monolingual and multilingual / multicultural individuals

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPV 312 - Bilingualism (3)

The nature of bilingualism as a societal and individual human phenomenon; linguistic and applied linguistic issues; second language acquisition, psycholinguistic, sociolinguistic, neurolinguistic, educational aspects of bilingualism, and language policy.

Prerequisite: SPV 321 / LNG 321. Cross-Listed as: LEH LNG 312 / SPV 312. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPV 321 - Language Acquisition (3)

Study of speech, language, and communication skills in typically developing children. Exploration of gender, multicultural, multilingualistic, and socioeconomic variations in language development. Analysis of the processes involved in language learning and use and the foundations of language and literacy from infancy through the school-age years to complex language development over the lifespan.

Prerequisite: SPV 245 (LNG 245) and SPV 246 (LNG 160) and SPV 228 and SPV 247 (LNG 247) and a 2.7 average across the four pre-requisite courses. Requirement Designation: Regular Liberal Arts.

SPV 326 - Speech Pathology 1: Functional Disorders (3)

Nature, etiology, assessment, and treatment of speech disorders (specifically articulation and fluency) and language disorders in preschool children, school-age children, and adolescents. Issues concerning multiculturalism and multilingualism are included.

Prerequisite: SPV 321 or LNG 330 and SPV 245 or LNG 245 and SPV 247 or LNG 247. Requirement Designation: Regular Non-Liberal Arts.

SPV 327 - Speech Pathology: Organic Disorders (3)

Nature, etiology, assessment, and treatment of cleft palate, voice disorders, aphasia, cerebral palsy, and other neurological disorders.

Prerequisite: SPV 245 or LNG 245 and SPV 247 or LNG 247 and SPV 228 and SPV 246 or LNG 246 and a 2.7 average across the four pre-requisite courses. Requirement Designation: Regular Non-Liberal Arts.

SPV 331 - Voice and Articulation of American English (3)

Practical introduction to voice and speech production, dialects, and accents, with attention to basic speech physiology and phonetics, study of American English sounds, stress, and rhythm patterns, individualized analysis of students' speaking skills.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPV 349 - Speech and Hearing Sciences (3)

Foundations in the physics and bioacoustics of speech production and perception, measurement of fundamental quantities, the anatomy and physiology of the central auditory pathways, and introduction to psychoacoustics and theories of speech production and speech perception; and application to typical speech and hearing and communication differences and disorders.

Prerequisite: SPV 245 and SPV 246 and SPV 228 and SPV 247 and a 2.7 average across the four pre-requisite courses. Requirement Designation: Regular Liberal Arts.

SPV 429 - Organization of Speech and Hearing Programs (3)

(Required for New York State Teaching Certificate as teachers of students with speech-language disabilities.) Organizing and administering a program of rehabilitation in speech, language, and hearing in public systems.

Prerequisite: SPV 326, SPV 327, and SPV 328, and Departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

SPV 430 - Introduction to Clinical Methods and Supervised Observation (3)

Introduction to clinical practice methods, therapeutic and diagnostic processes, treatment intervention techniques, and evidence-based practice in pediatric and adult populations. Introduction to selection of treatment goals and writing session plans, behavioral objectives, diagnostic reports, and SOAP notes. Additionally requires 25 hours of clinical observation (external to the course hours).

Prerequisite: SPV 326 and/or SPV 327. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

SPV 453 - Special Studies in Speech and Hearing Sciences (3)

Consideration of special topics in speech and hearing sciences.

Prerequisite: Departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

SPV 487 - Independent Study in Speech and Hearing Sciences (1–3 (maximum 6 credits.))

Independent study of special problems and independent research in speech and hearing sciences.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SPV 491 - Research Project in Speech and Hearing Sciences (3)

(maximum 6 credits.) Individual research and reading under direction of a faculty member of the department. An honors essay or some other suitable presentation in speech and hearing sciences is required.

Prerequisite: Departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

SWA - Swahili

SWA 101 - Elementary Swahili I (4)

Fundamentals of the phonology and grammar of Swahili. Reading of simple texts and practice in speaking.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SWA 102 - Elementary Swahili II (5)

Continuation of the study of Swahili grammar and vocabulary.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SWA 201 - Intermediate Swahili I (3)

A course in Swahili providing intensive practice in speaking, reading, and writing. The fundamentals of Swahili grammar are reviewed through use of audiolingual techniques. Emphasis on the development of fluency in speaking, reading, and writing.

Prerequisite: SWA 101 and SWA 102 (or equivalent, as evaluated by the program coordinator). Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SWA 202 - Intermediate Swahili II (3)

Continuation of SWA 201. Development of fluency in speaking, reading, and writing Swahili through study and discussion of African culture. Newspapers, magazines, and records are used.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SWA 345 - Swahili Literature I (3)

This course presupposes a considerable fluency in speaking, reading, and writing Kiswahili. Students will explore the African culture, past and present, through selected readings, in prose and verse.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SWA 346 - Swahili Literature II (3)

Continuation of SWA 345. Speaking, reading, and writing as an aspect of African life and culture.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SWK - Social Work

Note: Admission into the Social Work program requires completion of 48 college credits, submission of an application to the program, completion of SWK 237 and SOC 166, and achieving a minimum cumulative college index of 2.7.

SWK 237 - Introduction to Social Work and Social Welfare (3)

Historical perspective of social work and social welfare policy responses to industrialization, immigration and urbanization; knowledge base and values of social work, especially as they pertain to the diverse urban environment.

Prerequisite: SOC 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SWK 239 - Social Welfare Institutions (3)

History and philosophy of social welfare and social work in the United States within the context of social, economic, and political change. The impact of social welfare policy on populations at risk.

Prerequisite: SOC 166, SWK 237, and POL 166. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SWK 2410 - Lesbian, Gay, Bisexual and Transgender Populations (3)

Policy and social issues affecting the lives of LGBT populations and their families. Topics include the diversity of LGBT populations, resilience, social stigma, and oppression, with implications for social justice.

Offered: Fall-Spring.

SWK 242 - Social Work Practice with Older Adults (3)

Approaches to providing social work services for older adults in varied settings, and to practicing such approaches with their families. Topics include biological, psychological, social, ethical and spiritual functioning in later adulthood.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SWK 250 - Special Studies in Social Work (3 (may be repeated for a maximum of 9 credits).)

Special topics related to social work, social welfare and health in the urban environment.; analysis of the interaction of cultural, historical, political, economic and legal factors with various social systems. Topics to be announced each semester.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SWK 251 - Substance Abuse and Urban Society (3)

A bio-psycho-social-spiritual focus on substance abuse is explored with an emphasis on families and communities in urban society. The properties of different substances, including tobacco are studied from the perspective of their impact on human behavior.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SWK 305 - Human Behavior and the Social Environment I (3)

The cultural, political, and economic factors that influence individual and family systems, and the effect of available social welfare resources on these systems. Emphasis on issues of human diversity, including, race, ethnicity, gender, age, and sexual orientation.

Prerequisite: PSY 166 and SWK 239. Corequisite: SWK 311. Requirement Designation: Regular Liberal Arts. Offered: Fall.

SWK 306 - Human Behavior and the Social Environment II (3)

A continuation of SWK 305. Small and large groups, formal organizations, and communities as social systems; the effects of available social welfare resources and the interaction between diverse populations and these systems.

Prerequisite: Completion of SWK 305 and SWK 311, both with a minimum grade of C and BIO 183. Corequisite: SWK 312. Requirement Designation: Regular Liberal Arts. Offered: Spring.

SWK 311 - Social Work Practice I (3)

Theories and principles of social work practice. Emphasis on knowledge, skills, and values required for working with individuals, families, groups, and communities.

Prerequisite: Admission into the Social Work program. Corequisite: SWK 305. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall.

SWK 312 - Social Work Practice II (3)

A continuation of SWK 311.

Prerequisite: Completion of SWK 311 and SWK 305 with a minimum grade of C. Corequisite: SWK 306. Requirement Designation: Regular Non-Liberal Arts. Offered: Spring.

SWK 342 - Social Work Policies in an Aging Society (3)

A strengths-based and preventive perspective on policies and programs affecting older adults. Analysis of policy responses to ageism, elder abuse, and changing demographic and health trends. Public policies and programs, including components of the Social Security Act. Particular attention to vulnerable older adult populations.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SWK 351 - Theoretical Perspectives of Substance Abuse (3)

An exploration of the range of theoretical models used to understand substance abuse. The impact of social, political, economic and cultural systems on alcohol and drug abuse.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SWK 381 - Tutorial in Social Work (3)

(May be repeated for a maximum of 6 credits.) Content to be determined by student and instructor.

Prerequisite: Department Consent Required. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

SWK 440 - Fieldwork Seminar I (2)

Offered only in the fall semester. Integration of theories and principles of social work practice with fieldwork experience.

Prerequisite: Completion of SWK 312 and SWK 306 with a minimum grade of C. Corequisite: SWK 470. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall.

SWK 441 - Fieldwork Seminar II (2)

Offered only in the spring semester. Continuation of SWK 440.

Prerequisite: Completion of SWK 440 and SWK 470 with a minimum grade of C. Corequisite: SWK 471. Requirement Designation: Regular Non-Liberal Arts. Offered: Spring.

SWK 443 - Social Welfare Policy (3)

Analysis of the factors influencing social welfare policies; the process of policy formulation; and the impact of social policies on individuals, families, groups and communities, and the delivery of social services.

Prerequisite: SWK 239. Corequisite: SWK 440 and SWK 470 or SWK 441 and SWK 471. Cross-Listed as: LEH SWK 343/SWK 443. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

SWK 446 - Social Work Research (3)

Research skills, methods, and processes needed to conceptualize social problems; critical evaluation of research designs; utilization of social work research to better understand social and economic injustices that affect at-risk populations in urban environments; knowledge of ethical and political considerations affecting research.

Prerequisite: SWK 305, SWK 311. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

SWK 470 - Fieldwork I (4)

Placement in a community service agency two full days a week throughout the semester. 200 internship hours.

Prerequisite: Completion of SWK 312 and SWK 306 with a minimum grade of C. Corequisite: SWK 440. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

SWK 471 - Fieldwork II (4)

Continuation of SWK 470. Placement continues in the same agency.

Prerequisite: Completion of SWK 470 with a minimum grade of C. Corequisite: SWK 441. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

SWK 485 - Honors Seminar in Social Work (3)

Topics to be arranged between students and instructor.

Prerequisite: Permission of the Director of the Social Work program. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

SWK 495 - Honors Tutorial in Social Work (3)

Topics to be arranged between student and instructor.

Prerequisite: SWK 470 or SWK 471, and permission of the Director of the Social Work program. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE - Theatre

THE 200 - Theatre Departmental Production (1 (can be repeated for up to 2 credits))

Practical application of principles and theories of theatre arts performance through participation in Department theatre productions. Includes acting, directing, and assistant directing.

Prerequisite: Departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 201 - Theatre Workshop: Scenery/Properties (1)

Practical application of principles and theories of theatre arts through participation in Department theatre productions. Includes: scenic construction, scenic run crew, properties construction, and properties run crew.

THE 202 - Theatre Workshop: Costume/Wardrobe (1)

Practical application of principles and theories of theatre arts through participation in Department theatre productions. Includes: costume construction and wardrobe run crew.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 203 - Theatre Workshop: Lighting/Sound (1)

Practical application of principles and theories of theatre arts through participation in Department theatre productions. Includes: electrics crew, light board operation, sound crew, and sound board operation.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 204 - Production Workshop I (1 (may be repeated for up to 2 credits))

Practical application of principles and theories of performance arts production for live performance including scenery, lighting, costumes, sound, multimedia, and stage management, all students are expected to be on a run crew for the duration of a production.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 205 - Voice for the Stage (2 (may be repeated once))

Voice techniques specific to the stage actor.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 208 - Acting I (3)

Study and practice of the fundamentals of acting.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 211 - Play Analysis (3)

Fundamental principles of dramatic structure applied to selected plays from the viewpoint of theatre artists.

Cross-Listed as: LEH Play Analysis. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

THE 220 - Movement for Actors and Dancers (3)

Study and practice of recognized physical theatre techniques to develop students' performance skills.

Cross-Listed as: LEH DNC 220/THE 220. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 225 - Tools for Digital Storytelling (3)

Learning the essential tools for digital storytelling utilizing multimedia performance techniques like video, projections, digital soundscapes, and compilation and editing in the production of multimedia stage productions. Practical application of principles and theories of multimedia arts production. Also introduces the use and application of multimedia performing arts software products.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 230 - Body and Wellness I (2)

Beginning-level research, analysis and practice of breathing and movement techniques to improve well-being. Students will explore embodied learning through the lens of different somatic traditions.

Cross-Listed as: DNC 230. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

THE 232 - Voice and Speech for the Actor (3)

Vocal techniques for a performing career in professional theatre, radio, film and television.

Cross-Listed as: LEH COM 232/THE 232. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 233 - Stage Makeup (1)

Styles and techniques of stage makeup.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 235 - Stagecraft (3)

Stagecraft as a foundation for theatre production, including a survey of each area of scenography (including construction of scene, costume, lighting, multimedia and sound) and stage management.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

THE 238 - African American Theatre (3)

Contemporary African American plays and playwrights. The changing image of African Americans from the stereotypes of early American theatre to contemporary representations

Cross-Listed as: LEH AAS 238 / THE 238. Requirement Designation: Flexible Core - Creative Expression.

THE 239 - Creative Dramatics for Children (3)

Foundation for theatre work with children: story dramatization, writing scripts from improvisation, movement, theatre games, basic puppetry. Attendance at children's theatre productions. Final project is a participatory theatrical event.

Cross-Listed as: LEH THE 295/THE 239. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 241 - The Art of the Theatre (3)

Examination of the nature of live theatre: its forms, practices, and purposes, and its relevance to society.

Cross-Listed as: LEH BIL 141/THE 241. Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

THE 243 - Queer Theatre (3)

Gay, lesbian, bisexual, and transgendered drama from Christopher Marlowe through Mae West to the present.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

THE 245 - Puppetry (3)

Design and construction of different kinds of puppets (shadow, rod, hand puppets, and a marionette); the history of puppetry; attendance at professional puppet theatres in New York City; script writing; and a studio performance.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 2480 - Acting for Musical Theatre (3)

Study and practice of acting, movement, and voice for musical theatre.

Prerequisite: Department Permission. Offered: Fall-Spring.

THE 251 - Experiencing Theatre (3)

Attendance at performances on Broadway, Off-Broadway and at University theatres. Study of professional theatre (musicals, opera, new plays and classics, experimental works) through discussion with playwrights and theatre artists, staged readings and lectures held at Lehman and at theatrical associations around the city.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

THE 300 - Advanced Theatre Workshop (3)

(May be repeated for a maximum of 6 credits.) Analysis and application of principles and theories of theatre arts through extensive participation in a theatre production. Study of the theatrical work being performed, together with other works from the author's canon. Advanced analysis and interpretation applied to such activities as management (house, stage, props, publicity), design and construction (lighting, scenery, costumes, makeup), and performance (acting, directing, assistant directing).

Prerequisite: A course in theatre and permission of the Director. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 305 - Advanced Voice for the Stage (2)

Advanced vocal principles and techniques.

Prerequisite: THE 205 or Departmental Permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 306 - Production Workshop II (1 (may be repeated for up to 2 credits))

Students will work on a departmental production in the areas of lighting, sound, costume, stage management, scenery and multimedia.

Prerequisite: THE 204 Cross-Listed as: DNC 306. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 307 - Multimedia Post-Production Workshop (1)

Practical application of principles and theories of multimedia arts post production through participation in Department multimedia projects.

Prerequisite: FTS 224 or Departmental Permission. Cross-Listed as: LEH DNC 307/THE 307. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 308 - Playwriting (3)

The theory and practice of writing the one-act play.

Prerequisite: Departmental permission. Requirement Designation: Regular Liberal Arts.

THE 309 - Digital Storytelling (3)

Techniques in digital storytelling including internet platforms, devised performance through language, images, and sound for new forms of storytelling.

Prerequisite: THE 225 / DNC 225 or departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

THE 310 - Play Production and Directing for Secondary Schools (3)

Study and practice of the techniques and principles of producing plays on the secondary school level.

Cross-Listed as: LEH THE 394/THE 310. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 314 - Advanced Production and Design Workshop (3)

Students will assist or participate in a Department multimedia project/production during the semester in an area of their choosing; scenery, lighting, costumes, sound, or stage management. This course is meant for advanced students in production and design.

Prerequisite: THE 204 and THE 306 or departmental permission. Cross-Listed as: DNC 314. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 320 - The Children's Theatre (3)

The history, literature, and production practices of the International Children's Theatre movement.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

THE 323 - Improvisation (3)

Methods of improvisation drawn from both dance and theatre.

Prerequisite: DNC 220 or THE 220 or Departmental Permission. Cross-Listed as: LEH DNC 323/THE 323. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 325 - The Artist and Society (3)

The role of the artist in society from scholar to entrepreneur.

Prerequisite: Department Consent Required Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

THE 326 - History of the Theatre I (3)

History of the theatre and drama to the seventeenth century.

Prerequisite: THE 211 or Departmental permission. Cross-Listed as: LEH CLT 326/THE 326. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

THE 327 - History of The Theatre II (3)

History of the theatre and drama from the seventeenth century to the present.

Prerequisite: THE 211 or Departmental permission. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

THE 3280 - History of Musical Theatre (3)

The history of musical theatre, including its origin in operetta, burlesque, and vaudeville; the contributions of major

practitioners of the form; and the current status of musical theatre and its critical evaluation.

THE 330 - Body and Wellness II (2)

Advanced study and practice of breathing and movement techniques to improve well-being. Students will explore embodied learning through the lens of different somatic traditions.

Prerequisite: DNC (THE) 230 or departmental permission. Cross-Listed as: DNC 330. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

THE 331 - Acting II (3)

Continued study and practice of the principles of acting, with emphasis on characterization and scene work.

Prerequisite: THE 208 and THE 211. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 332 - Theatre Theory (3)

Classical and modern theories of theatre from Aristotle to the present, with emphasis on twentieth-century contributions.

Prerequisite: THE 211. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

THE 335 - Directing I (3)

Study and practice of the fundamentals of directing.

Prerequisite: THE 208 and THE 211 or Departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 336 - Scenic Design (3)

The scenic elements in the visual arts of the theatre, film and TV, with emphasis on the design concepts and materials of scenery for the stage and live performance.

Prerequisite: THE 235 or Departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 337 - Costume Design (3)

The various aspects of costume for the theatre: wardrobe, history, construction, properties, and basic elements of design.

Prerequisite: THE 235 or Departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 338 - Lighting Design (3)

The lighting elements in the visual arts of the theatre, film, and TV, with emphasis on design concepts and materials of lighting for the stage and live performance.

Prerequisite: THE 235 or Departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 343 - Voice-Over for Multimedia Platforms (3)

Voice-over techniques for different media platforms including: film, television, audiobooks and podcasts with focus on character development and vocal technique.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 344 - Acting for the Camera (3)

Study of fundamental acting techniques specific to performance in film, television, and new media.

Prerequisite: THE 331 or departmental permission.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

THE 348 - Performing Arts Management (3)

Fiscal and administrative business practices as they apply to the management of professional, not-for-profit, and educational performing arts organizations.

Prerequisite: THE 241 or DNC 235, or Departmental permission. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 370 - Theatre Internship (3)

May be repeated once with Departmental approval. Supervised work in a theatrical institution to develop skills in production, casting, rehearsals, costuming, and design.

Prerequisite: Satisfactory completion of 45 college credits and Departmental approval. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 408 - Advanced Playwriting Workshop (3)

The goal of this course is the writing of a full-length play.

Prerequisite: THE 308 or Departmental permission. Requirement Designation: Regular Liberal Arts.

THE 409 - Advanced Digital Storytelling (3)

Advanced Digital Storytelling is a continuation of Digital Storytelling and focuses on digital storytelling techniques in addition to screenwriting including internet platforms, devised performance through language, images, and sound for new forms of storytelling.

Prerequisite: THE 309. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

THE 425 - Devised Multimedia Performance (3)

Students will study and practice different methods of devised multimedia performance drawn from both theatre and dance.

Prerequisite: DNC 323 or THE 323 and DNC 225 or THE 225. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 427 - Advanced Costume Design (3)

Continuation of costume design for theatre, film and television.

Prerequisite: THE 337 or Departmental permission.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 433 - Advanced Acting for the Camera (3)

Advanced study of principles and techniques of acting in film/television/new media introduced in THE 344.

Prerequisite: THE 344. Requirement Designation: Regular Liberal Arts.

THE 434 - Advanced Technical Theatre (3)

An in-depth exploration of organizational and procedural aspects of budgeting, estimating, construction, rigging, mounting of scenery, and operations and maintenance of equipment used in the theatre and the entertainment industry.

Prerequisite: THE 235 or Departmental permission.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 435 - Advanced Acting (3)

Explores Shakespeare and contemporaries like Marlowe, Jonson, Webster in juxtaposition with contemporary work from AfroCaribbean theatre artists such as Derek Walcott, August Wilson, Suzan-Lori Parks, Nilo Cruz, Maria Irene Fornes, and Luis Alfaro. Focusing on performance of non-realistic and poetic texts both classical and contemporary in the rehearsing and presenting of monologues and duologues.

Prerequisite: PREREQ: THE 331 or (departmental permission). Requirement Designation: Regular Non-Liberal Arts.

THE 436 - Advanced Scenic Design (3)

Continuation of Scenic Design (THE 336).

Prerequisite: THE 336 or Departmental permission.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 438 - Advanced Lighting Design (3)

Continuation of lighting design techniques for theatre, film and television. (THE 338).

Prerequisite: THE 338 or Departmental permission.

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 439 - Studies in the Greek and Roman Theatre (3)

Theories of the origins of Western theatre in Greece and its perpetuation in the Roman Empire. The ritual beginnings and developments in dramaturgy and theoretical practice introduced by the Greek and Roman playwrights.

Prerequisite: Either THE 326 or instructor's permission.
Cross-Listed as: LEH THE 339/THE 439. Requirement
Designation: Regular Liberal Arts. Offered: Fall-Spring.

THE 440 - Studies in Elizabethan and Jacobean Theatre (3)

Study of the theatrical practices and conventions of the late 16th and early 17th centuries in England as illustrated through selected plays and source materials of the period.

Prerequisite: Either THE 326 or instructor's permission.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

THE 441 - Directing II (3)

Continued study and practice of the principles of directing. Students will direct a one-act play in the studio theatre.

Prerequisite: THE 335. Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 442 - Studies in Modern Theatre (3)

Study of the theatrical practices and conventions of the late 19th and early 20th centuries as illustrated through selected plays and the principal theatrical movements of the period.

Prerequisite: Either THE 327 or instructor's permission.
Cross-Listed as: LEH THE 342/THE 442. Requirement
Designation: Regular Liberal Arts. Offered: Fall-Spring.

THE 443 - Contemporary World Theatre (3)

Study of the theatrical practices and conventions of contemporary world theatre.

Prerequisite: THE 327 or Instructor Consent. Requirement
Designation: Regular Liberal Arts. Offered: Fall-Spring.

THE 445 - Studies in Restoration and 18th Century Theatre (3)

Study of the theatrical practices and conventions of the 17th and 18th centuries as illustrated through selected plays and source materials of the period.

Prerequisite: THE 327 or Instructor Consent. Cross-Listed as: LEH THE 341/THE 445. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

THE 448 - Advanced Performing Arts Management (3)

Continuation of THE 348. Economic and managerial practices for performing arts organizations. Creation of a viable plan to produce or manage a project in the performing arts.

Prerequisite: THE 348 or Departmental permission.
Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

THE 449 - Working in the Performing Arts (3)

Introduction to career paths in the performing arts. Includes audition techniques, professional writing, reel preparation and meetings with professionals in the field.

Prerequisite: Two THE courses or Departmental permission.
Cross-Listed as: LEH DNC 449/THE 449. Requirement
Designation: Regular Liberal Arts. Offered: Fall-Spring.

THE 454 - Special Studies in Theatre (3)

Consideration of special topics in theatre.

Prerequisite: Departmental permission. Requirement
Designation: Regular Liberal Arts.

THE 470 - Advanced Theatre Internship (3)

May be repeated once with Departmental approval.

Supervised work in a theatrical institution to develop skills in production, casting, rehearsals, costuming, and design.

Prerequisite: Satisfactory completion of 60 college credits, 15 of which must be in Theatre, and Departmental approval.
Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 485 - Theatre Honors (3)

Individual study, under faculty guidance, leading to completion of either an honors essay or a production book or reel in the case of creative performance.

Prerequisite: Departmental Permission and 3.5 GPA in the major. Requirement Designation: Regular Liberal Arts.
Offered: Fall-Spring.

THE 488 - Independent Study in Theatre (3)

(maximum 6 credits). Independent study of special problems and independent research in theatre.

Prerequisite: Departmental permission. Requirement
Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

THE 492 - Research Project in Theatre (3)

(maximum 6 credits). Individual research and reading under faculty direction. An honors essay or some other suitable presentation in theatre is required.

Prerequisite: Departmental permission. Requirement
Designation: Regular Liberal Arts. Offered: Fall-Spring.

THE 495 - Multimedia Performing Arts Project (2)

Multimedia capstone project in performing arts.

Prerequisite: Departmental Permission. Cross-Listed as: DNC 495. Requirement Designation: Regular Non-Liberal Arts.

THE 4951 - Honors Multimedia Performing Arts Project (3)

The senior honors capstone project, consisting of researching, directing, and producing a multimedia project supervised by a faculty mentor.

Prerequisite: THE 4950, 3.5 GPA in the major, and Departmental Permission. Cross-Listed as: LEH DNC 4951/THE 4951.

URB - Urban Studies

URB 450 - Urban Studies Seminar (3)

Open only to students in the Urban Studies Specialization, who have completed at least three electives in urban studies-related courses.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

URB 470 - Field Research (3)

Interdisciplinary field research course open only to participants in the Urban Studies Specialization and may not be taken until URB 450: Urban Studies Seminar has been completed.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL - World Foreign Languages

WFL 101 - Elementary I (4)

Elementary I

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 102 - Elementary II (5)

Elementary II

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 103 - Elementary I (4)

Elementary I

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 104 - Elementary II (5)

Elementary II

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 105 - Elementary I (3)

Elementary I

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 106 - Elementary II (3)

Elementary II

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 107 - Intensive Elem I&II (6)

Intensive Elem I&II

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 108 - Elementary III (3)

Elementary III

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 109 - Introduction to Language (3)

Introduction to Language

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 111 - Elementary I (3)

Elementary I

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 112 - Elementary II (3)

Elementary II

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 201 - Intermed Grammar I (3)

Intermed Grammar I

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 202 - Intermed Rdng & Comp (3)

Intermed Rdng & Comp

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 203 - Intermediate I (3)

Intermediate I

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 204 - Intermediate II (3)

Intermediate II

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 206 - Business Language (3)

Business Language

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 207 - Intermd Conversation (3)

Intermd Conversation

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 211 - Intermediate Language I (3)

Intermediate Language I

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

WFL 212 - Intermediate Language II (3)

Intermediate Language II

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

WFL 213 - Heritage Speaker Intermediate I (3)

Heritage Speaker Intermediate I

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

WFL 214 - Heritage Speaker Intermediate II (3)

Heritage Speaker Intermediate II

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

WFL 250 - Topics (3)

Topics

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 251 - Topics in Health/Science (3)

Topics in Health/Science

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

WFL 252 - Internship Service Learning Intermediate (3)

Internship Service Learning Intermediate

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

WFL 265 - Intrmd Studies - Lit (3)

Intrmd Studies - Lit

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 281 - Tutorial (3)

Tutorial

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 285 - Individualized Intermediate Foreign Language Study (1)

Independent study in a foreign language generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 300 - Intro Lit&Lit Crtcsn (3)

Intro LitLit Crtcsn

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 301 - Lit Fr Mid Age-17 C. (3)

Lit Fr Mid Age-17 C.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 302 - Lit Fr 18 C.-Present (3)

Lit Fr 18 C.-Present

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 303 - Advanced Grammar (3)

Advanced Grammar

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 304 - Topics in Literature of the Middle Ages (3)

Topics in Literature of the Middle Ages

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

WFL 305 - Advanced Conversatn (3)

Advanced Conversatn

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 306 - Advanced Composition (3)

Advanced Composition

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 307 - Translation (3)

Translation

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 308 - Phonetics & Diction (3)

Phonetics Diction

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 310 - Comparative Grammar (3)

Comparative Grammar

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 311 - Topics in Literature of The Renaissance (3)

Topics in Literature of The Renaissance

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

WFL 312 - Topics in 17th Century Literature (3)

Topics in 17th Century Literature

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

WFL 313 - Topics in 18th Century Literature (3)

Topics in 18th Century Literature

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

WFL 314 - Topics in 19th Century Literature (3)

Topics in 19th Century Literature

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

WFL 315 - Topics in 20th Century Literature (3)

Topics in 20th Century Literature

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

WFL 316 - Advanced Business Language (3)

Advanced Business Language

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

WFL 317 - Topics in Theatre (3)

Topics in Theatre

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

WFL 318 - Topics in Poetry (3)

Topics in Poetry

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

WFL 319 - Topics in Narrative Literature (3)

Topics in Narrative Literature

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

WFL 320 - Topics in Science/Health (3)

Topics in Science/Health

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

WFL 352 - Topics In Literature (3)

Topics In Literature

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 357 - Topics In Language (3)

Topics In Language

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 358 - Regnal Civ.&Or Cult. (3)

Regnal Civ. & Or Cult.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 370 - Internship/Service Learning (3)

Internship/Service Learning

Requirement Designation: Regular Non-Liberal Arts. Offered: Fall-Spring.

WFL 381 - Tutorial (3)

Tutorial

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 385 - Individualized Advanced Foreign Language Study (1)

Independent study in a foreign language generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WFL 481 - Tutorial (3)

Tutorial

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST - Women's Studies

WST 136 - Family and Community Health (2)

Study of the relationship of the home and community in developing optimal health.

Cross-Listed as: LEH HEA 136/WST 136. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 180 - Modern Housing (3)

Analysis of modern housing needs of families. Consideration of home ownership, cooperatives, condominiums, and public and other rental housing in terms of cost, location, construction, and value to individual family members. Principles of organization of space for individual and family living during the family life cycle.

Cross-Listed as: LEH FCS 180/WST 180. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 206 - Anthropological Perspectives on Women and Men (3)

The roles of females and males in both simple and complex societies. Exploration of some of the factors involved in differential allocation of work, roles, prestige, and power among females and males. Factors to be examined include economic structure, the distribution of power, the process of socialization, and ecological adaptation.

Cross-Listed as: LEH WST 206/ANT 206. Requirement Designation: Flexible Core - Individual and Society. Offered: Fall-Spring.

WST 209 - Psychology of Women (3)

Survey of empirical and theoretical issues regarding the psychology of women, dynamics of personality, and inherent and learned factors influencing their behavior.

Cross-Listed as: LEH PSY 209/WST 209. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 210 - Women in Latin America (3)

The impact of social and cultural differences among women on gender relations, women's sexualities and identities in Latin America.

Cross-Listed as: LEH ANT 210/LAC 210/WST 210. Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

WST 218 - Gender and Society (3)

Comparative analysis of the statuses and roles of women in society. Exploration and analysis of alternative lifestyles for women and possible consequences of new patterns for women, men, the family, and other institutions.

Cross-Listed as: LEH WST 218/SOC 218. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 220 - Introduction to Women's Studies (3)

Examination of women's experiences from the perspective of various disciplines such as psychology, sociology, masculinity theory, and history. Ways in which gender intersects with ethnicity, race, socio-economic class, to form social constructs.

Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

WST 225 - Philosophy and Gender (3)

Conceptions of gender from the classical to the modern period.

Cross-Listed as: LEH PHI 225/WST 225. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 228 - African American Families (3)

Diversity of African American families from enslavement to the present through the lens of race, class, gender and the impact on social structures and institutions.

Cross-Listed as: LEH WST 228/AAS 228. Requirement Designation: Flexible Core - US Experience in its Diversity. Offered: Fall-Spring.

WST 231 - African Family Systems (3)

Aspects of the family system: the extended family system. The difference between the African and Western concepts of marriage. The position of children in the family and family discipline. The impact of the West on African family systems.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 234 - Women in Literature (3)

Images of women and constructions of gender in myths, legends, biblical writings, and major literary texts by both male and female writers.

Cross-Listed as: LEH WST 234/ENG 234. Requirement Designation: Flexible Core - Creative Expression. Offered: Fall-Spring.

WST 237 - Sociology of the Family (3)

The family as structure and process; analysis of its institutional and interpersonal aspects and its functions in different societies.

Cross-Listed as: LEH WST 237/SOC 227. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 239 - Black Women in American Society (3)

Examination of Black women in American society with emphasis on their special problems and significant contributions. Selected topics include women in traditional African society, Black women in slavery, racism, sexism, and black women's organizations.

Cross-Listed as: LEH AAS 239/WST 239. Requirement Designation: Flexible Core - US Experience in its Diversity. Offered: Fall-Spring.

WST 240 - Women in African Society (3)

Roles and status of women in traditional, colonial, and contemporary African societies. Impact of international organizations and globalization.

Cross-Listed as: LEH AAS 240/WST 240. Requirement Designation: Flexible Core - World Cultures & Global Issues. Offered: Fall-Spring.

WST 250 - Topics in Women and Society (3)

(May be repeated, when content is different, with permission of the Director for a maximum of 6 credits). Social science approaches to the study of sex, money, and power relationships between women and men of varying class, ethnic, and racial backgrounds in industrialized societies, especially the United States.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 255 - Topics in Women and Religion (3)

(May be repeated, with permission of the Director and change in content, for a maximum of 6 credits.) Debates concerning women's nature, women's rights, and women's place in various sacred and secular religions, past and present.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 260 - Topics in the History of the Women's Movement (3)

(May be repeated, with permission of the Director and change in content, for a maximum of 6 credits.) Perspectives on the history of the women's movement.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 302 - Women in Antiquity (3)

A study of the roles of women in Greek and Roman society as they can be seen from the important literary works of antiquity. Attitudes toward women will also be examined, with some attention being paid to mythological and archaeological sources.

Cross-Listed as: LEH ACU 302/WST 302. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 303 - Women and Health (3)

Physiological, psychological, political, and social determinants of the health and health care of women.

Cross-Listed as: LEH HEA 302/WST 303. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 304 - History of Women and Society in the Islamic Middle East (3)

Women in the Middle East from the advent of Islam to the present. Legal and cultural constructions and social dynamics of marriage, sexual morality, women's access to property, participation in production, and use of space.

Cross-Listed as: LEH HIW 304/WST 304/MES 304. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 307 - Human Sexuality (3)

Physiological, psychological, and social aspects of human sexual development and function.

Cross-Listed as: LEH HEA 307/WST 307. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 308 - Parenting and Child Health (3)

The development of the child as a growing personality; factors influencing physical, emotional, and social development. Care of the premature baby; infant and maternal mortality; habit formation; parenting skills and training; signs of health, disease, and abuse; boarding out of children; adoption; day care and nursery school.

Cross-Listed as: LEH HEA 308/WST 308. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 310 - Black Feminisms (3)

Contemporary Black feminist thought.

Cross-Listed as: LEH AAS 310/LAC 310/LTS 310/WST 310. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 311 - Women in Antiquity (3)

Examination of the image, role and status of women in both Ancient Greek and Roman society as seen from the important literary works of antiquity.

Cross-Listed as: LEH ACU 311/WST 311. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 317 - Family Relationships (3)

The place of the family in American life: essential conditions for effective family living, factors that seem to be important in achieving and maintaining successful marriage, roles of family members, problems in family relationships and parenthood, and interdependence of family and community.

Cross-Listed as: LEH FCS 307/WST 317. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 322 - Sociology of Gender and Reproduction (3)

Reproductive issues from birth control and the medicalization of childbearing to fetal and neonatal health, infertility, and new reproductive and genetic technologies. Emphasis on the influence of gender and race on reproductive politics, ideologies, and practices.

Cross-Listed as: LEH SOC 322/WST 322. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 328 - The Family in American History (3)

Historical study of the family in America, including its European roots, its relationship to the frontier, to slavery, to immigration, and to current development in industrialism, urbanization, and technology.

Cross-Listed as: LEH HIU 328/WST 328. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 329 - History of Sexuality and Sex Roles in America (3)

The history of sexual roles as they have developed and changed in America from colonial times to the present.

Cross-Listed as: LEH HIU 329/WST 329. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 331 - History of Women in America (3)

Historical study of women's conditions, statuses, and roles in American society from colonial times to the present.

Cross-Listed as: LEH HIU 331/WST 331. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 338 - Women, Men and Language (3)

Review of major theoretical approaches to the field of language and gender, from diverse cultural perspectives.

Analysis of ways in which gender ideologies shape and are shaped by language use.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 340 - History of African American Women (3)

The social, political, and cultural history of African American women in the United States from an interdisciplinary perspective.

Cross-Listed as: LEH AAS 340/HIU 340/WST 340.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 341 - Women and Politics (3)

An examination of the legal and political status of women in the United States and other countries.

Cross-Listed as: LEH POL 341/WST 341. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 344 - Women Writers in English (3)

Fiction, poetry, drama, and essays by women writing in English. Focus on particular times, places, and writers may vary by semester.

Prerequisite: Departmental permission. Cross-Listed as: LEH AAS 344/WST 344/ENG 344. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 345 - Topics in Gender and Sexuality (3)

Constructions of gender and sexuality in literature, film, arts, and the media. Emphasis on theoretical literature and its interrogation of feminism, queerness, masculinities, and related forms of social identity.

Prerequisite: Departmental permission. Cross-Listed as: LEH ENG 345/WST 345. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 348 - Family Psychology (3)

Study of the psychological dynamics underlying family relationships with emphasis on common areas of conflict and types of family dysfunction. Consideration of major theoretical viewpoints and practice techniques in the assessment and treatment of family pathology.

Cross-Listed as: LEH PSY 328/WST 348. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 354 - Black Panther Women and Gender Politics (3)

Analysis of the history, political development, praxis, platform, and decline of the Black Panther Party for Self-Defense from 1966 to 1982.

Cross-Listed as: LEH AAS 354/HIU 354/WST 354.

WST 372 - Family Relationships: Field Study and Seminar (2)

Field study of private and public agencies; introduction to the services available to families, including problems inherent in the use of these services.

Cross-Listed as: LEH FCS 372/WST 372. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

WST 481 - Senior Seminar in Women's Studies (3)

(Open to upper juniors and seniors specializing in Women's Studies.) This seminar will be an interdisciplinary examination of recent research studies in the area of women's studies. Each student will be expected to pursue an individual research project making use of primary material, scholarly journals, and other library material.

Prerequisite: At least 6 credits in Women's Studies and 6 credits in related areas with the approval of the instructor. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

YDH - Yiddish

YDH 100 - Elementary Yiddish - Intensive Course (6)

Elements of grammar, reading of simple Yiddish prose, practice in speaking, and audiolingual work in Language Lab. Represents a complete 1st year course in Yiddish and is equivalent to the 2-semester sequence YDH 101-102.

Cross-Listed as: LEH HCU 100/YDH 100. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

YDH 101 - Elementary Yiddish I (4)

Introduction to spoken and written Yiddish, with stress on speaking, pronunciation, reading, writing, and cultural aspects.

Cross-Listed as: LEH HCU 101/YDH 101. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

YDH 102 - Elementary Yiddish II (5)

Continuation of HCU (YDH) 101.

Cross-Listed as: LEH HCU 102/YDH 102. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

YDH 201 - Intermediate Yiddish I (3)

Speaking, reading, writing, and cultural aspects.

Cross-Listed as: LEH HCU 201/YDH 201. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

YDH 202 - Intermediate Yiddish II (3)

Speaking, reading, writing, and cultural aspects.

Cross-Listed as: LEH HCU 202/YDH 202. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

YDH 285 - Individualized Intermediate Foreign Language Study (1)

Independent study in Yiddish generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

YDH 340 - Masterpieces of Yiddish Literature in Translation (3)

Study of major works in Yiddish literature against the background of Jewish life in the cultural centers of Eastern Europe and the United States. Selections from Mendele Mocher Serforim, Peretz, Sholom Aleichem, and representatives of Soviet and American Yiddish literature will be covered.

Cross-Listed as: LEH HCU 340/YDH 340. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

YDH 385 - Individualized Advanced Foreign Language Study (1)

Independent study in Yiddish generally linked to a course in another field.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

YDH 485 - Yiddish Independent Studies (3)

Individual study and independent research in Yiddish under the direction of a faculty member.

Cross-Listed as: LEH HCU 485/YDH 485. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

YOR - Yoruba

YOR 101 - Elementary Yoruba I (4)

Introduction to Yoruba grammar. Course deals with grammar, syntax, pronunciation, and spelling.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

YOR 102 - Elementary Yoruba II (5)

Deals with oral work and elementary reading based on YOR 101. Sentence construction and introduction to the customs and culture of the language.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

YOR 201 - Intermediate Yoruba (3)

Reading of specially selected or adapted prose texts, discussion, and drill of new grammatical points encountered in reading, elementary composition, and conversation.

PREREQ: YOR 101 and 102.

Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

YOR 345 - Yoruba Oral Literature (3)

A study of collected Yoruba folktales and of two of the simpler genres of Yoruba oral poetry--Ijala and Ifa.

Prerequisite: YOR 201. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

YOR 346 - Modern Yoruba Literature (3)

Detailed study and analysis of selected novels of the post-Fagunwa period. Readings in contemporary Yoruba poetry and introduction to Yoruba stylistics.

Prerequisite: YOR 345. Requirement Designation: Regular Liberal Arts. Offered: Fall-Spring.

Campus Facilities and Resources

Academic Facilities

The Leonard Lief Library

Named for the founding President of Lehman College, the Leonard Lief Library is a state-of-the-art research facility housed in a modern, four-story building. The collections, library faculty and staff, and programs support Lehman's undergraduate and graduate curriculum. Reference librarians provide research support to students, faculty, and visitors, and offer bibliographic instruction. In addition to the Reference Desk and instructional support, library faculty is available by appointment for individual consultation.

The library website [<http://www.lehman.cuny.edu/library/>] is a dynamic information portal with links to the CUNY+ library catalog, nearly 200 online databases, numerous electronic journals, plus recommended authoritative research websites. These electronic resources are available to the Lehman community both onsite and off-campus. An open stacks book collection of 682,848 volumes is supplemented by a microfilm collection and growing multimedia holdings. The Library is a designated Federal depository for government documents, open to community members by appointment.

CUNY students and faculty may borrow books from all CUNY libraries, and Interlibrary Loan services are available to faculty and graduate students. A continually updated Reserve collection includes textbooks, journal articles, and course materials.

Library collections and services include the following

- Laptops, iPads, and eReaders may be borrowed at the Circulation Desk
- State-of-the-art laboratory classrooms, equipped with audiovisual technology and computer resources, are used for research training by library faculty. These open labs provide students with Internet access and academic program software.
- The Access and Technology Center, located on the second floor, provides assistive equipment and software for students with special needs.
- The Graduate Research Room on the first floor contains computer resources reserved for this special constituency.
- The Education collection, supporting the School of Education, holds journals, K-12 curriculum materials, a special instructional collection of children's books, as well as computer access.
- The Periodicals unit on the Concourse level contains current print journal titles, bound volumes, and microfilm equipment.
- Special Collections encompasses College records, rare books, digital resources, and the Bronx Institute Archives [local oral histories, books, atlases, photographs, and documents].
- A limited number of Group Study Rooms are available for small student groups.

The Library publishes a newsletter, prides itself on the active scholarship of its faculty, and offers Readings Series, exhibits, lectures, and film screenings to Lehman and the surrounding community. We regard ourselves part of the Bronx, international library, and global communities.

Computer and Instructional Technology Facilities

The Division of Information Technology oversees the development of IT infrastructure and the coordination of IT operations and services across the campus. Technology support for students, staff, and faculty is provided by a College-wide IT support team and specialists in department labs, school offices, and the central IT facilities. IT Division staff members provide consulting, documentation, technical assistance, and related support to the Lehman community.

The Division of Information Technology Resources provides access to centralized computing and related technologies in support of the College's instructional, research, and administrative activities. Lehman's Information Technology Center (ITC) is located on the plaza level of Carman Hall. The facility houses eight PC and Macintosh computer labs for course instruction, an open lab with over 100 computers for student use, shared printing facilities, a dedicated faculty lab, and a help desk. The IT Division also operates a satellite help desk in the Library.

The campus is networked on a high-speed backbone providing access to the Internet as well as CUNY and campus resources. These include electronic mail services, the Lehman Connect campus intranet, CUNY-wide systems including the CUNY Portal and, the Blackboard online learning management system; CUNYfirst for online course registration and related administrative functions; and remote library and specialized departmental resources. Wireless access to the network is also available throughout the campus.

Approximately 200 of Lehman's lecture halls and classrooms are technology-enhanced or smart classrooms, and facilities for video conferencing and distance learning are available, assisted through the Multimedia Center, Media Technology Services, housed in Carman Hall, provides equipment and technical support for classroom use, college events and media presentations. Other specialized services and facilities include a media conversion lab to assist faculty in developing electronic-based course materials.

The College makes available specialized equipment for students with disabilities. All rooms are accessible by persons with disabilities, and specialized hardware and software for visually or hearing-impaired persons are provided. Students may also use the facilities of the Assistive Technology Center, located in the Library.

In addition to the centralized facilities, IT and other departments operate computer labs to support discipline-specific applications, such as a graphics-based computer lab and a 3-D printing facility in the Department of Anthropology; three Computer Graphics and Imaging Labs in the Department of Art; a Laboratory of Geographic Information Technologies in the Department of Earth, Environmental, and Geospatial Sciences; a multimedia language laboratory in the Department of Languages and Literatures; multiple facilities for radio, television, and film productions in the Department of Journalism, Communication, and Theatre; and specialized computer labs in the School of Education, the School of Continuing and Professional Studies, the Departments of Biological Sciences, Economics and Business, Mathematics and Computer Science, Nursing, Sociology, and Social Work. The Library, the Academic Support Center, the Science Learning Center, the CUNY Macaulay Honors College at Lehman, and the Student Life Building also have computer resources available.

Students may request information about IT resources and services, including IT Center hours of operation and technical assistance, by visiting the IT website at www.lehman.edu/itr, sending an e-mail to helpdesk@lehman.cuny.edu, or visiting in-person at the ITR Open Center (Carman Hall, Room 111).

The Language Laboratory

The Department of Languages and Literatures has one multimedia language laboratory. The laboratory, which is located in Carman Hall, Room B-37, has twenty-eight networked computers and software programs that correspond to the texts used to study the languages taught at Lehman. The computers in this laboratory have high-speed connection to the Internet, sound cards, headsets, CD/DVD players, and microphones. In addition, a set of special software programs from Tandberg is installed: Imperata, Divace Solo, and Library Pilot.

- Imperata is used for classroom management. It can be used to monitor student activities, provide mouse/keyboard control/collaboration between a pair of student computers, and share individual computer screens. Additional features include the creation of special files called electronic portfolios. An electronic portfolio contains all of the elements an instructor requires to conduct class sessions in a computer lab: a view of the classroom; lesson plan objectives; relevant links to the Internet or other shared directories; the ability to upload files/folders; and the operations used for managing a classroom in a computer environment.
- Divace, which stands for Digital Interactive Audio Video Recorder, allows students/instructors to play audio/video and also to record and author their own audio material.
- Library Pilot currently functions as a database for online links to language-related websites.

These computers are also linked to a digital video server; students can study from the language software stored on the server and digitally record their voices for oral and audio practice. Accommodation is provided for visually impaired and disabled students. Zoomtext, used to magnify text, is installed on one computer. The software Jaws, used by blind individuals, is installed on one computer. One computer station is designed to accommodate an individual using a wheelchair.

Advanced Imaging Labs

The Art Department, in conjunction with Lehman's Department of Mathematics and Computer Science, has established three advanced imaging labs in the Fine Arts building. One lab (in Fine Arts, Room 047) contains twenty up-to-date Mac work stations with new Epson Flatbed Scanners, a Nikon Supercool Film/Slide Scanner, and a Xerox 7700 color printer. A second lab (in Fine Arts, Room 006) contains fifteen Mac work stations with Epson flatbed scanners. These teaching labs give students the opportunity to learn digital imaging, desktop publishing, webpage design, computer animation, advanced 3-D modeling, and multimedia interactive programming. In addition, a third lab (in Fine Arts, Room 006), dedicated to advanced student and faculty digital imaging, contains several Macintosh G5 computers and printers and additional high-end digital imaging and large-format printing equipment.

Science Laboratories

Significant research and training facilities are available in the Lehman science departments.

In the **Department of Biological Sciences**, the Phytochemistry Laboratory is a newly renovated facility in Davis Hall (Room 119). It is fully equipped with instruments used for the identification and purification of natural products,

including a gas chromatograph, high-performance liquid chromatographs (HPLC), and a liquid chromatograph-mass spectrometer (LC-MS). The Molecular Biology Research Facility contains sophisticated instrumentation for molecular biology, cellular biology, and biochemical research. The equipment includes a D.N.A. synthesizer, HPLCs, ultracentrifuges, high-speed centrifuges, phosphorimager, scanning spectrophotometers, electrophoresis systems for a protein and nucleic acid analysis and DNA sequencing, and computers for integration with the instrumentation. Bioimaging facilities include a confocal microscope, fluorescence microscopes, and scanning and transmission microscopes. There is a recently built research greenhouse, as well as an older greenhouse.

A Biological Sciences Computer Center is integrated into the research instruments in the Biological Sciences Department and enables students to learn how to operate state-of-the-art scientific instruments. The Center has real-time videoconferencing capabilities to allow faculty to incorporate research results and access the Internet while teaching courses.

Noteworthy research equipment and facilities in the Department of Chemistry include nuclear, magnetic, and electron paramagnetic resonance spectrometers, uv-visible and Fourier transform infrared spectrophotometers, gas, and high-pressure liquid mass-spectrometer-interfaced chromatographs, teaching and research labs, and a student computing facility.

The **Department of Physics and Astronomy** is conducting cutting-edge research in nanoscience, quantum optics, and string theory. Undergraduate and graduate students are involved in research that is supported by grants from the National Science Foundation, the U.S. Department of Energy, and the U.S. Department of Defense.

The **Department of Anthropology** houses research laboratories in anthropological genetics, archaeology, osteology, and paleoanthropology, a secured forensic evidence facility, and a teaching laboratory. The department has developed an extensive human and primate osteologic and fossil cast collection that is used for classroom laboratory exercises and independent student research. The osteology and paleontology laboratories are equipped with traditional osteological measurement tools along with a 3D laser surface scanner, a 3D digitizer, a 3D printer, and computer workstations for 3D morphometric analysis and visualization. The archaeobotany laboratory is equipped with Leica microscopes, slide preparation, and a comparative library of fixed pollen samples for the analysis of archaeological pollen samples. The anthropological genetics laboratory is equipped with molecular biology instrumentation for DNA extraction,

genotyping, sequencing library preparation, and computational analysis.

All these departments and researchers have easy access to the academic computing facilities at the College as well as the mainframe computer at the City University Computer Center.

Instructional Support Services Program

The Instructional Support Services Program (ISSP) is dedicated to facilitating the academic development of Lehman students at the graduate level. The ISSP provides individual and group tutoring in addition to other instructional programming through the Academic Center for Excellence (ACE), located in the Old Gym Building, Room 205, and the Science Learning Center (SLC), located in Room 133 of Gillet Hall. See www.lehman.edu/issp.

New York Botanical Garden

Under an agreement with CUNY, a number of staff members of the New York Botanical Garden offer courses in Lehman's Department of Biological Sciences. This arrangement makes specialized material, equipment, and collections available to Lehman students and provides facilities for research under exceptionally favorable conditions. The Museum of the Botanical Garden contains a library of about 65,000 volumes; a herbarium with some three million specimens, which provides excellent opportunities for research in taxonomy, ecology, and phytogeography; and special rooms for the cryptogamic collections. The collection of living plants on the grounds and in the greenhouses provides a wealth of material, with approximately 12,000 species represented.

The Bookstore

The Bookstore, located on campus between Davis and Carman Halls, provides the required faculty-chosen textbooks and related course materials. It also carries a large line of academic software, a comprehensive trade section of general interest books, and school supplies. The College community may also find Lehman College apparel, diploma frames, gift items, bargain books on sale at up to seventy percent off list price, health and beauty items, snacks, candies, sundries, and beverages. Items in the Bookstore are also available for purchase online at www.lehman.edu/bookstore.

Fine and Performing Arts Facilities

Lehman Center for the Performing Arts

Lehman Center for the Performing Arts' 2,310-seat Concert Hall is the borough's premier performance space. Critics have called it "acoustically perfect." With a modern 2,400-square foot stage and a hydraulic orchestra pit, the Center presents outstanding classical, popular, and folk/ethnic dance, music, and theatre companies from around the world. Special,

culturally diverse community celebrations enhance the Center's offerings. The Center has also served as the site of numerous public programs and debates of national interest. Lehman students are offered discounted tickets for most events, as well as opportunities to work as ushers and apprentice stagehands. Examples of artists who have recently performed at the Center include El Gran Combo, Virsky Ukrainian National Dance Company, Smokey Robinson, Jimmy Cliff, Trinity Irish Dance Company, Nickelodeon's Blues Clues Live, and the gospel musical "Your Arms Too Short to Box With God."

Lehman Stages

Lehman Stages is a performance and rehearsal facility at Lehman College, comprised of the Lovinger Theatre, the Studio Theatre, the Student Experimental Theatre (or "SET"), and the Dance Lab @ *Lehman*.

Part of the Bronx for over two decades, the facilities that comprise Lehman Stages have served as an invaluable cultural resource for the Bronx and the larger New York City community. Lehman Stages is dedicated to the creation and presentation of performing arts programming of all disciplines, with a special focus on education and cultural diversity. Lehman Stages aspires to be an artistic touchstone for emerging artists of all backgrounds and a training facility for the College's theatre and dance program. The facilities also provide low-cost rehearsal, performance, and conference space for arts, civic, and government organizations throughout the metropolitan area.

Recital Hall

The Music Building houses the 150-seat Recital Hall, which is used by music students and music faculty members throughout the academic year. There are also individual practice rooms for music students, as well as larger rehearsal halls for groups such as the Community Band and Lehman College and Community Chorus. Many recitals are given at noontime in the Recital Hall and attended by the public during the lunch hour. The Lehman College Chamber Players, the Lehman College Jazz Ensemble, and the Lehman College Brass Ensemble are among the groups performing noon-time concerts.

Lehman College Art Gallery

The Lehman College Art Gallery is located in the Fine Arts Building designed by renowned architect Marcel Breuer. The Gallery presents innovative contemporary art in two striking exhibition spaces. Education is an integral component of exhibition programming and provides the basis for the Gallery's outreach - from young students to senior citizens. New technologies offer a means of reaching audiences internationally as well as locally and provide creative new

venues for artists. The Gallery's website, featuring Bronx Public Art, highlights an extraordinary collection of public art from the WPA to contemporary projects.

Student Life Facilities and Programs / Services

Office of the Vice President for Student Affairs

The Office of the Vice President for Student Affairs (Shuster Hall, Room 206) is concerned with all aspects of student life and provides numerous services for Lehman graduate and undergraduate students, from new student orientation to arranging the College's annual commencement ceremony. The Office of the Vice President for Student Affairs is available to assist students with academic and personal issues, as well as to advise student organizations and extracurricular groups. Have a question, concern, or comment? Not sure where to go for answers? Send a member of the Student Affairs team an e-mail or stop by the office in Shuster Hall room 204. If you send an e-mail, please be as specific as possible. You're welcome to submit your feedback anonymously by fax (718-960-8243) or by dropping off a note, but if you'd like a response please include your name and phone number or email address. We look forward to hearing from you.

The Office of the Vice President for Student Affairs provides managerial oversight for departments that provide critical services to all students. These departments include: APEX/Athletics, International Student & Scholar Services, Counseling Center, Career Services Center, Urban Male Leadership, Campus Life/ Student Activities, Health Center & Wellness Education, Financial Aid, Child Care Center, Community Engagement, Disability Services, and Veterans Services. Student housing services, medical withdrawal appeals, emergency grants and academic integrity/judicial issues are coordinated by this office as well.

For information about important College/University policies and procedures go to <http://www.lehman.edu/student-affairs/documents/student-handbook-part-II.pdf>

The APEX

The APEX is a \$57 million recreation and sports facility that provides 165,000 square feet of multidimensional, multipurpose space. It houses the College's intercollegiate and intramural athletics program, as well as classrooms and dance studios for the academic program in dance theatre.

The chief attraction of the APEX - a 50-meter, eight-lane swimming pool - has provided a new level of opportunity for the sport of competitive swimming in the metropolitan area. It is used for both national and international athletic competitions, while also supporting Lehman's many varsity, recreation, intramural, and community outreach activities.

The APEX has two gymnasiums, one for intercollegiate athletics with a seating capacity of 1,000, and the other for recreational and intramural use. Other key features of the building include: four racquetball courts, free weight room, cardiovascular fitness center, a training room, an equipment room with laundry facilities, saunas, locker rooms, dance and ballet studios, and an indoor running track.

The College also has five outdoor tennis courts and soccer, softball, and baseball fields. Alumni, College staff, and community members as well as Lehman students may use athletic facilities in accordance with College rules and regulations.

Intercollegiate Athletics

Lehman College is a member of the National Collegiate Athletic Association Division III, the City University of New York Athletic Conference, the Metropolitan Collegiate Swimming Association, and the Eastern Collegiate Athletic Conference. Students are encouraged to join athletic teams, many of which participate in local league competition. Standards for participation and rules governing the sports are those of the National Collegiate Athletic Association and various local and district conferences. The eligibility requirements for Lehman College are as follows:

- Athletes must be full-time matriculated students, i.e., carrying twelve (12) credits.
- Athletes must have and maintain a Grade Point Average of 2.0 index.

Competition is held in the following varsity sports: basketball, cross-country, softball, baseball, swimming, tennis, soccer, indoor and outdoor track and field, and volleyball. In addition there is conference, regional, and national championship competition in all intercollegiate programs. City University championship tournaments are conducted in baseball, basketball, cheerleading, cross country, soccer, softball, swimming, tennis, indoor and outdoor track and field, and volleyball.

Intramural Sports

The intramural sports program provides a wide variety of activities of a competitive and recreational nature in which students, staff, and faculty may participate. Organized activities are scheduled throughout the year in men's, women's, and coeducational teams. These are conducted during free hours on Wednesdays from 3 to 5 p.m. and on Fridays from noon to 1 p.m. Supervised recreational facilities are made available as often as possible for informal use by the Lehman College community. The following intramural activities are available: basketball, soccer, softball, swimming, tennis, and volleyball. The Intramural-Recreation Office is located in Room 253 of the APEX.

Recreation Opportunities

Supervised hours for recreation in the APEX pool, fitness center, auxiliary gym, aerobics room, and racquetball courts are provided as often as possible for informal use by faculty, staff, and students. The schedule for these facilities varies somewhat from semester to semester and may be obtained in Room 251, APEX. The APEX is open Mondays through Fridays during the academic year from 7 a.m. until 10 p.m. On Saturday, the building is open from 8 a.m. until 5 p.m., and on Sunday from 9 a.m. until 2 p.m. Students may use the APEX free of charge; for others, a yearly membership fee is required. Additional information is available by calling 718-960-1117.

The Campus Life/Student Activities Office

The Office of Campus Life, located in the Student Life Building (718-960-8535), facilitates a myriad of student development programs that complements students' academic experience. Programs include the Herbert H. Lehman Center for Student Leadership Development, which offers leadership training modules, reflective dialogues, retreats, conferences, public speaking and communications training as well as off-campus trips to the White House, Pentagon and the United Nations.

The Office serves as a resource for all student clubs funded through the student activity fee. In association with Student Government Association (SGA) and its Programming Board, the office promotes thematic programs such as Black History Month, Women's History Month, and Latino Heritage Month. Additionally, the Campus Life staff is available to all students who might be interested in existing or establishing a new student organization.

The Student Life Building is a two-story facility which underwent a \$2 million dollar renovation two years ago. The improvements include the SGA Executive Office thirty-two student club offices, the campus radio station Lehman Underground Radio, and The Herbert H. Lehman Center for Student Leadership Lounge. Adjacent to the south baseball field, the building is open from 9 a.m. until 9 p.m. Monday through Thursdays and from 9 a.m. until 5 p.m. on Fridays. Graduate and undergraduates students are welcome to use the game room, TV room, student lounge, or conference rooms. A copying/fax service is available to all members of the Lehman community at the main entrance. Student club members are also free to use the computer resources for creating club posters and announcements. A wireless network and free laptop rental program are available to students with a valid Lehman ID.

The Cafeteria

The Student Cafeteria's contract operator offers food and catering services to the Lehman College community. The

Underground Lounge offers a wide variety of freshly prepared, and nutritious meal options from 7:30 a.m. to 8:30 p.m. Monday through Thursday, and from 7:30 a.m. to 3:30 p.m. on Friday and Saturday. Schedules vary when class is not in session. Current schedules may be obtained by calling 718-960-1175.

The main student cafeteria The Underground Lounge, in the lower level of the Music Building, has a seating capacity of 800. The Underground Lounge is a complete food court dining location on campus. Students can choose from a wide variety of freshly prepared meals from the following exciting culinary concepts.

Asian Moon:

There are a variety of Asian cuisines featuring Thai, Japanese, and Chinese inspired dishes that include pad Thai, sesame chicken, steamed dumplings, beef teriyaki and more. There is also a wide variety of freshly prepared sushi and Japanese dishes. You can choose from one of our delicious sushi rolls or ask the sushi chefs to prepare your favorite roll just for you.

Tossed Salads:

Start with small or large mixed green salads and choose from any of our delicious gourmet ingredients and salad dressings to create your own signature tossed salad. The fat free dressings and fresh toppings make the salads a healthy option. Tossed salads are also available in the Carman Hall Café.

The Grill:

Start your day with fresh eggs prepared to order or a stack of delicious pancakes with butter. Join us again for lunch and grab a gourmet burger, grilled chicken sandwich, or Philly style cheese steak. Every grill item comes available as a small or large combo meal with fries and a fountain beverage making your lunch an extra special value.

Chefs Features:

Executive Chef Hector Morales prepares a delicious selection of hot entrée choices and delicious side dishes every day. Pair your favorite entrée with a choice of two side dishes for a complete meal.

Signature Sandwiches:

The NY style deli will create your favorite sandwich topped with a wide variety of accompaniments and dressings or choose from one of our signature sandwiches. In a hurry to get to class on time? Grab a freshly made sandwich from our grab-n-go case.

Mexi-Cali Fresh Baja Grille:

The Mexi Cali Grille, located in the Underground Lounge, features a variety of made-to-order options like steak burritos and chicken quesadillas and fish tacos. Everything is prepared to order and includes only the freshest ingredients.

City Slices:

There is a wide variety of delicious Pizzas made by Lehman

College Pizza Chef Valentino. A favorite is Chicken Bacon Ranch, but you can choose from Authentic NY Cheese, Sicilian, Marinara, Balsamic Chicken, or Meatball. Or, grab a Stromboli and some garlic knots.

Located in the first floor of the Music Building, The Harmony Café offers a variety of Starbucks coffees, espresso drinks, and frapuccinos, hot and cold teas, pastries, desserts and light lunch options such as Hale and Hearty soups, sushi, Paninis, Kosher sandwiches, and salads to satisfy your afternoon cravings.

The Carman Café offers a wide variety of Starbucks coffees, espresso drinks, and frapuccinos, hot and cold teas, pastries, desserts and light lunch options such as Paninis, Kosher sandwiches, Hale and Hearty soups, and sushi are available. You can also order a prepared to order tossed salad from the tossed salad bar or grab a personal pizza. The hours of operation for the cafe are the same as those of the student cafeteria. For the convenience of students, a varied selection of vending machines is also available both in the Carman Café and the Student Cafeteria, The Underground Lounge.

The Career Services Center

The Career Services Center (CSC) (Room 254, Shuster Hall, 718-960-8366) assists Lehman students and alumni with all phases of their career development to help them transition from college to career. We strive to provide the highest standards of comprehensive services and practices so that students and alumni may successfully meet the challenges of a globally competitive job market.

Through its online management system and a state-of-the-art computer lab, students have access to full-time, part-time and internship positions in private, public, and non-profit organizations. The Career Services Center also provides students with individualized career counseling, interactive career developmental workshops, internship opportunities, employment resources and on-campus recruitment with employers.

The Financial Aid Office

Located in Room 136 of Shuster Hall, the Office of Financial Aid assists students with all aspects of financing their education, including planning and meeting the expenses associated with attending the College. Information is available on financial assistance programs and on how to maintain eligibility for Federal, State, and City award programs. Financial Aid professionals will work closely with students and their families to put the cost of a Lehman education within reach.

The Office also provides students with expanding services through a computer lab, located in Shuster Hall, Room 131. Students may use the lab to access and complete various

online financial aid-related applications. For more detailed information, visit www.lehman.cuny.edu/financialaid.

The Speech and Hearing Center

A unique and highly regarded graduate teaching facility, the Speech and Hearing Center at Lehman College provides state of the art diagnostic and therapeutic services to individuals in the NYC Metropolitan area and to members of the Lehman community who have speech, language, hearing, feeding, and swallowing deficits. Services are delivered by graduate-student clinicians under the close supervision of Clinical Supervisors, who are speech-language pathologists and audiologists certified by ASHA (the American Speech-Language-Hearing Association) and licensed by New York State. The Center also serves as a laboratory for undergraduate and graduate students in Speech-Language and Hearing Sciences and faculty doing applied clinical research.

Service provision supports evidence-based practices in all diagnostic categories and treatment areas including language development, reading and writing, central auditory processing, articulation, voice, fluency, social language development, and feeding/swallowing for children and adults throughout the lifespan. Treatment is provided in individual and group settings. Parent and caregiver support is an integral component of our program. Bilingual services are also offered as well as accent modification. Devices for assisting the hearing impaired are available for evaluative purposes.

Conveniently located in the Speech and Theatre Building, Room B-50, the Lehman College Speech and Hearing Center is opened during the academic year, Monday through Friday between the hours of 10 am and 9 pm. Parking is available on campus. Center fees are considerably less than those charged by private practitioners.

Please contact us to inquire about services at our center at (718)960-8138.

The Student Health Center

The Student Health Center is located in the Old Gym Building, Room B008. The Center offers a wide range of services, including primary and acute care and treatment, urgent care, men and women's health services, required and elective immunizations, and internship and pre-employment physicals. Basic laboratory services and pharmaceuticals are also available. Preventive health education is a key focus.

The Student Health Center is supported by the Student Activity Fee and, therefore, most services are free or are offered at a significantly reduced cost. Free services include: HIV testing, CPR trainings, nutrition counseling, gyn

examinations, health insurance assistance and food stamp assistance.

Office hours during the academic year are 9 a.m.-5 p.m. Monday through Friday and Tuesday until 6:30pm. Students with valid IDs may use the services of the Center on an appointment basis. Sick walk-in patients are accommodated. Additional information can be found on www.lehman.edu/studenthealth or call 718-960-8900.

The Counseling Center

The Lehman College Counseling Center is located at the Old Gym Building, Room 114. The Counseling Center offers free and confidential therapy. Trained Psychological Counselors are available to help students discuss difficulties that may be interfering in their day to day lives and keeping them from attaining their academic goals. Students' individual circumstances and unique strengths are core elements in the therapy sessions which can range from 30 minutes to 45 minutes.

Students are encouraged to call 718-960-9761 to schedule appointments. In addition, walk-in counseling sessions are available with the assigned walk-in Counselor. Students are asked to complete forms, in paper or on a computer. Regardless, the student's information is confidential. Please make an appointment today. We are here to support your academic and personal development.

The Child Care Center

The center is licensed by the New York City Department of Health, Bureau of Day Care, and accredited for over ten years by the National Association for the Education of Young Children. Childcare services during the day are provided for two-to-five-year-olds. Evening programs for children aged five to nine are available to parents attending evening classes at Lehman. Students enrolled in Saturday classes may enroll their four- to nine-year-old children in the Center's Saturday program. Enrollment is based on available spaces and dated applications from a waiting list. Students interested in additional information about the Center, including current rates for full-time and part-time childcare, as well as for the after-school and weekend programs, may call 718-960-8746 for more information.

The Office of Community Engagement and New Student Programs

The Office of Community Engagement and New Student Programs aims to educate members of the Lehman campus community on the importance of responsible citizenship through new student orientation, community development programs, practical application of knowledge, and an

awareness of global issues impacting local communities. There are five major components of the Office of Community Engagement and New Student Programs: Lehman L.I.F.E., Community Service-Learning, Service Program Calendar, Pay it Forward Program, CUNY Service Corps and New Student Orientation. Our programs engage students, faculty and staff in education and community service, providing opportunities for personal and professional growth, networking, and community engagement. To learn more about the opportunities available, please visit the Old Gym, Room 302 or call 347-577-4020.

Student Disability Services

The Office of Student Disability Services provides a wide range of accommodations and services to students with documented disabilities including those with temporary medical issues. Available services include, but are not limited to: advisement, registration assistance, assistive technology training, individual test administration, library assistance, equipment loan, agency referral, faculty liaison, sign language interpreters, note-takers, scribes, readers and proctors. The Office has an Assistive Technology Lab in the Library and provides students with career development programs and other workshops. We welcome graduate students with disabilities and are committed to providing an equitable learning environment by reducing barriers to physical, technical, and programmatic access at Lehman. Our office is located in Shuster Hall, Room 238 and we can be reached at 718-960-8441.

Urban Male Leadership

The Urban Male Leadership Program (UMLP) is designed to facilitate the successful transition of new students to Lehman College. The program also provides support to continuing students by strengthening academic skills, personal development, and character enrichment. We are committed to facilitating student success both inside and outside of the classroom. The primary program focus is to increase the retention and graduation rates of all students while fostering a meaningful college experience with specific emphasis on historically underrepresented Black and Latino males. Our office is located in the Old Gymnasium Building, Suite 302 and we can be reached at 718-960-8801.

Veterans and Military Affairs

The Office of Veterans and Military Affairs is here to help veterans, service members, and their families assimilate into the Lehman College community. In addition, the Office assists eligible individuals in applying for benefits and services for which they are entitled to for serving in the Armed Forces. Lehman recognizes the contribution veterans and service members make as citizens and students. We are

proud of their demonstrated level of diversity and academic excellence. Stop by the Office of Veterans and Military Affairs at Shuster Hall, Room #201B to learn how to maximize your benefits in achieving your goals. You can also reach the Coordinator of Veterans and Military Affairs at (718) 960-7188.

Wellness Education and Education Program

The Wellness Education and Promotion Program provides health awareness and education to the college community through outreach, student engagement, training and research. Our program model systematically addresses college health through the development of relevant programming at the individual, group and community level to promote health and support student success. The program provides a comprehensive campus outreach program that includes workshops, individual health counseling, support groups and a health information library for students. Our services are available to all enrolled undergraduate, graduate and professional students. The program provides internship opportunities for students in the areas of health education, communication and promotion. The Wellness Education and Health Promotion Program is located in the Old Gym, room 302. For additional information please call 718-960-2415.

International Student and Scholar Office

The International Student & Scholar Office assists students and scholars in obtaining and maintaining the F-1 International Student, and the J-1 Exchange Visitor visa type and immigration status for the purpose of pursuing a degree or certificate program; to teach; conduct research or engage in educational and cultural initiatives. The Certificate of Eligibility Forms (I-20 for F-1 students; DS 2019 for exchange students and scholars) are provided upon completion of all admission requirements, and verification of F or J program eligibility. ISSO Contact Information: Shuster Hall 210; Lehman web site: <http://www.lehman.edu/students/international-students/index.php>, email: isso.shuster@lehman.cuny.edu; telephone 718-960-7274.

Faculty and Administration

The City University of New York

Board of Trustees

William C. Thompson, Jr., B.A., Chairperson
Barry F. Schwartz, A.B., J.D., Vice Chairperson
Michael Arvanites, B.A., Trustee
Henry T. Berger, B.S., J.D., Trustee
Una S. T-Clarke, B.S., M.S., C.D., Trustee
Lorraine Cortés-Vázquez, B.A., M.P.A., Trustee
Fernando Ferrer, B.A., M.P.A., Trustee
Kevin D. Kim, B.A., M.A., J.D., Trustee
Mayra Linares-Garcia, B.A., Trustee
Robert F. Mujica, B.A., M.G.A., J.D., Trustee
Brian D. Obergfell, B.S., J.D., Trustee
Jill O'Donnell-Tormey, B.S., Ph.D., Trustee
Charles A. Shorter, B.A., M.A., Trustee
Ken Sunshine, B.S., Trustee
Sandra Wilkin, B.S., B.S., Trustee
Martin J. Burke, Trustee, Ex Officio
Haris Khan, B.S., M.B.A., Ph.D., Trustee, Ex Officio

Officers of the City University of New York

Félix V. Matos Rodríguez, *Chancellor*
José Luis Cruz, *Executive Vice Chancellor and University Provost*
Hector Batista, Executive Vice Chancellor and Chief Operating Officer
Pamela S. Silverblatt, Interim General Counsel & Sr. Vice Chancellor for Legal Affairs and Sr. Vice Chancellor for Labor Relations
Glenda Grace, Senior Vice Chancellor for Institutional Affairs and Strategic Advancement and Special Counsel
Matthew Sapienza, Senior Vice Chancellor and Chief Financial Officer
Judith Bergtraum, Senior Vice Chancellor for Facilities Planning, Construction and Management
Brian Cohen, Vice Chancellor & University Chief Information Officer

Maite Junco, Vice Chancellor for Communications and Marketing

Margaret Egan, Interim Vice Chancellor for Human Resources and Director of Strategic Initiatives

Gayle Horwitz, Senior Advisor to the Chancellor and Secretary to the Board of Trustees

Christopher Rosa, Interim Vice Chancellor for Student Affairs

Dolly Martínez, Chancellor's Chief of Staff and Associate Vice Chancellor for the Executive Office

Vivek Upadhyay, University Executive Registrar

Colin Chellman, Dean for Institutional Research and Policy

Cass Conrad, University Dean, K-16 Initiatives

Angie Kamath, University Dean for Continuing Education and Workforce Development

Farida Lada, Associate University Provost for Research Administration and Compliance

Donna Linderman, Associate Vice Chancellor for Academic Affairs

Robert Maruca, Associate University Provost for Planning

Amy McIntosh, Associate Vice Chancellor for Academic Strategy

Annemarie Nicols-Grineko, University Associate Dean for Faculty Affairs

Christopher Rosa, Interim Vice Chancellor for Student Affairs

Rachel Stephenson, Assistant Vice Chancellor for Academic Strategy and Operations / Chief of Staff

Lucinda R. Zoe, Senior University Dean and Vice Provost of Academic Programs and Policy

Sarah Truelsch, Director of Policy Research

Avrom Caplan, University Dean for Research

Sandy F. Coward, University Dean of Special Programs

David Crook, Associate University Provost for Academic Affairs

Greg Gosselin, Interim University Dean for Libraries and Information Systems

G. Michael Guy, University Associate Dean for Undergraduate Studies

Ian James, Deputy to the Vice Chancellor for Student Affairs

John Mogulescu, Senior University Dean for Academic Affairs and Dean of the CUNY School of Professional Studies

Ekaterina Sukhanova, University Dean for Academic Affairs

Ashleigh Thompson, University Dean for Education

Lehman College Administration

OFFICE OF THE PRESIDENT

Fernando Delgado, *President*: B.A., San José Univ.; M.A., Ph.D., Univ. of Iowa.

Dawn Ewing Morgan, *Vice President for Diversity and Human Resources*: B.S., Brooklyn Coll.; M.P.A., Baruch Coll.; M.S., Lehman Coll.

Bridget Barbera, *Exec. Counsel to the Pres., Labor Designee*: B.A., Brown Univ.; J.D., Washington Univ. in St. Louis.

Maritza Rivera, *Assoc. Dir., Compliance and Diversity (Higher Ed. Assoc.)*: B.A., M.A., M.S.Ed., Lehman Coll.

Haydee Acevedo, *Admin. Coord. (Fiscal) (Asst. to Higher Ed. Officer)*: B.A., Lehman Coll.

Rachel Burkett, *Admin. Coord. (Asst. to Higher Ed. Officer)*: B.A., Lehman Coll.

Cynthia Cessant, *Legal Coord. (Asst. to Higher Ed. Officer)*: B.A., Barnard Coll.; M.P.A., Capella Univ.

William Murray, *Admin. Coord. (Asst. to Higher Ed. Officer)*: A.A., Bronx Comm. Coll.; B.A., M.S.Ed., Lehman Coll.

Joshunda Sanders, *Comm. Specialist*: B.A., Vassar Coll.; M.S., Univ. of Texas at Austin.

Media Relations and Publications

Karen Crowe, *Asst. Vice Pres. (Higher Ed. Officer)*: B.A., New York Univ.

Colleen Lutolf, *Dir. of Media Relations and Content Strategy*: B.A., Montclair Univ.

Yeara Rosenthal, *e-Media Communications, Mngr. (Higher Ed. Assoc.)*: B.A., Lehman Coll.

Alonza Robertson, *Communications and College Relations Specialist (Higher Ed. Asst.)*: B.A., Howard Univ.

Lisa A. Hirschfield, *Communications and Res. Specialist (Asst. to Higher Ed. Officer)*: M.F.A., M.Phil., New York Univ.

Erika Reinhart, *Communications and Pub. Design Specialist (Asst. to Higher Ed. Officer)*: B.A., Cabrini Coll.; M.A., New York Univ.

OFFICE OF THE PROVOST AND SENIOR VICE PRESIDENT FOR ACADEMIC AFFAIRS AND STUDENT SUCCESS

Peter Nwosu, *Provost and Senior Vice Pres. for Acad. Affairs and Student Success*: B.A., Institute of Management & Tech., Enugu, Nigeria.; M.A., Towson Univ.; Ph.D., Howard Univ.

Maria Camaj, *Admin. Exec. Asst. (Higher Ed. Asst.)*: B.B.A., M.S.B., M.S.O.L., Lehman Coll.

Denise Escano, *Admin. Coord. (Asst. to Higher Ed. Officer)*: B.S., Lehman Coll.

Office of Academic Personnel

Deborah Rhem-Jackson, *Admin. Officer (Higher Ed. Officer)*: B.S., Syracuse Univ.; M.B.A., Columbia Business School, Columbia Univ., C.P.A.-NY.

Edna M. Norman, *Workload Specialist (Higher Ed. Asst.)*: M.S., Long Island Univ.

Néstor H. Montilla, Sr., *Mngr. of Adjunct Affairs (Higher Ed. Assoc.)*: A.A.S., Hostos Comm. Coll.; B.S., M.P.A., John Jay Coll. of Criminal Justice.

Alison Abreu, *Faculty Dev. and Comm. Specialist (Higher Ed. Asst.)*: B.A., M.S.O.L., Lehman Coll.

Institutional Research, Planning, and Data Analytics

Michael Goldberg, *Assoc. Dir. (Higher Ed. Assoc.)*: B.A., Syracuse Univ.; M.A., M.B.A., Manhattan Coll.

Yajaira A. Alvarez, *Institutional Research Specialist (Higher Ed. Assoc.)*: B.S., Lehman Coll.

Alejandra Rodriguez, *Admin. Coord. (Asst. to Higher Ed. Officer)*: M.S., Adv. Cert., CUNY SPS; B.S., Lehman Coll.

Office of Research and Sponsored Programs

J. Brandon Begarly, *Dir.*: B.S., Drexel Univ.

Office of International Programs and Community Engagement

Teresita Levy, *Exec. Dir.*: B.A., Rollins Coll.; M.S., Long Island Univ./C.W. Post Campus; M.Phil., Ph.D., CUNY Grad. Cent.

Amanda Dubois-Mwake, *Dir.*: B.A., Bridgewater State Coll.; M.A., New York Univ.

Jenny Landsman, *Asst. Dir.*: B.B.A., Lehman Coll.; M.S., Baruch Coll.

Sandra Cortez, *Asst. Dir.*: B.A., Lehman Coll.

Vivekanand (Victor) Rajcoomar, *Study Abroad/Academic Program Coord.*: B.A., Lehman Coll.; M.S., Baruch Coll.

Ambar Ramirez, *Office Asst.*: B.S., The City Coll. of New York.

Library

Kenneth Schlesinger, *Prof., Assoc. Dean & Chief Libr.*: B.A., Univ. of California at Berkeley; M.F.A., Yale Univ.; M.L.S., Pratt Inst.

Janet Butler Munch, *Prof., Spec. Coll. Libr.*: B.A., Mercy Coll.; M.L.S., Pratt Inst.; D.L.S., Columbia Univ.

Robert Farrell, *Assoc. Prof., Coord. Infor. Literacy and Assessment*: B.A., Columbia Univ.; M.L.S., State Univ. of New York at Buffalo; M.A., CUNY Grad. Cent.

John DeLooper, *Asst. Prof., Web Serv.-Online Learn. Libr.*: B.A., George Washington Univ.; M.L.I.S., Rutgers Univ.; M.S., Baruch Coll.

Stacy Katz, *Asst. Prof., Open Resources-STEM Liaison Libr.*: B.S., Cornell Univ.; M.L.I.S., Simmons Coll.; M.Ed., Framington State Univ.

Alison Lehner-Quam, *Asst. Prof., Education Libr.*: B.A., Univ. of Washington; M.L.S., Columbia Univ.; M.Ed., Lehman Coll.

Martha Lerski, *Asst. Prof., Business Libr.*: B.A., Univ. of Pennsylvania; M.L.S., Queens Coll.; M.A., CUNY Grad. Cent.

Stephen Walker, *Asst. Prof., Head of Access Serv.*: B.A., Iona Coll.; M.L.I.S., Long Island Univ.; M.S.Ed., Baruch Coll.

Rebecca Arzola, *Lect., Gov Infr Stud Engag Libr*: B.A., M.Ed., Lehman Coll.; M.L.S., Pratt Inst.

Robin Wright, *Lect., Health and Human Serv. Libr.*: B.A., Princeton Univ.; M.B.A., Baruch Coll./Mt. Sinai Sch. of Medicine; M.S.L.I.S., Pratt Inst.

Michelle Ehrenpreis, *Instr., Electronic Resources Libr.*: B.A., Ramapo Coll.; M.L.S., Pratt Inst.

Angelina Brea, *Reserve Mngr. (Higher Ed. Asst.)*: B.A., Lehman Coll.

Office of the Dean, School of Arts and Humanities

James Mahon, *Dean of School of Arts and Humanities; Prof., Philosophy*: B.A., Trinity Coll., Dublin; M.Phil., Univ. of Cambridge; Ph.D., Duke Univ.

Karin Beck, *Assoc. Dean of School of Arts and Humanities; Assoc. Prof., Langs. & Lits.*: M.A., Free Univ. of Berlin; M.Phil., Ph.D., Columbia Univ.

Yini Rodriguez, *Admin. Coord. (Asst. to Higher Ed. Officer); Adj. Lect., Langs. & Lits.*: B.A., M.A., Lehman Coll.

Orquidia Rosado, *Admin. Coord. (Asst. to Higher Ed. Officer)*: B.A., Lehman Coll.

Office of the Dean, School of Education

Serigne M. Gningue, *Exec.-In-Charge, Interim Assoc. Dean of School of Education; Prof., Middle & H.S. Ed.*: B.S., Univ. of Dakar; M.A., Lehman Coll.; M.Phil., Ph.D., Columbia Univ.

Shahaan Azeem, *Asst. to the Certification Officer*: B.A., Lehman Coll.

Karen Fairclough, *Dir. of Operations*: B.A., Amherst Coll.; M.P.A., SIPA, Columbia Univ.

Vanessa Jones, *Teacher Certification Specialist*: B.A., Hunter Coll.

Leslie Lieman, *Dir., Clinical Practice & Partnerships*: B.A., State University of New York at Binghamton; M.S.W., C.S.W., Hunter Coll. School of Social Work; M.A.E.T., Michigan State Univ.

Lawrence (Larry) Patterson, *Program Mngr., NYC Men Teach*: B.A., SUNY, Coll. at Old Westbury.

Yaswantie Ameeta Persaud, *Academic Assessment Mngr.*: B.A., Lehman Coll.; M.S., Sch. of Professional Studies, CUNY.

Fatima Sherif, *Dir. of NYC Men Teach at Lehman Coll.*: B.A., Pine Manor Coll.; M.A. Teachers Coll., Columbia Univ.

Christine Sohan, *Asst. to Certification Officer*: B.A. Lehman Coll.

Office of the Dean, School of Health Sciences, Human Services, and Nursing

Elin Waring, *Interim Dean of School of Health Sciences, Human Services, and Nursing; Prof., Soc.*: B.A., Swarthmore Coll.; M.A., Ph.D., Yale Univ.

Jaye Jones, *Interim Assoc. Dean of School of Health Sciences, Human Services, and Nursing*: B.A., Univ. of Iowa; M.A., George Washington Univ.; M.S.W., Columbia Univ.; Ph.D., Univ. of Chicago.

Jonathan Rose, *Admin. Exec. Officer (Higher Ed. Officer)*: B.A., George Washington Univ.; M.A., Marymount Univ.

Elizabeth Seenath-Charles, *Admin. Coord. (Asst. to Higher Ed. Officer)*: B.S., M.S., City Coll. of New York.

Office of the Dean, School of Natural and Social Sciences

Pamela Mills, *Dean of School of Natural and Soc. Sci.; Prof., Chem.:* B.S., George Washington Univ.; Ph.D., Univ. of Wisc.—Madison.

Joseph Martinez, *Admin. Specialist (Higher Ed. Asst.):* B.A., Univ. of Rochester.

School of Continuing and Professional Studies

Jane MacKillop, *Dean of School of Continuing and Professional Studies:* B.A. (Hons), Univ. of Sheffield—UK; M.A., Univ. of Southern Calif; Postgrad. Dip. Teaching Eng. as Sec. Lang., Univ. of Leeds—UK; Ph.D., Univ. of Sheffield—UK.

Kimberly Kendall, *Dir., Workforce:* B.S., Dickinson Coll.; M.B.A., Fordham Univ.

Pamela Hinden, *Dir., Adult Degree Program:* B.A., Univ. of Maryland; M.S.W., New York Univ.

Goher Murtaza, *Dir., Continuing Education:* M.B.B.S., Dalian Medical Univ.; M.S. Lehman Coll.

Clarence Stanley, *Dir., Small Business Development Center:* A.A.S., New York City Comm. Coll.; B.S., Baruch Coll.; M.B.A., Long Island Univ.

Samira Bahrami, *Dir., CUNY on The Concourse:* M.A., IAUT School of Art and Architecture.

Lawrence Fautleroy, *Dir., CUNY 2X Program, Tech Talent Pipeline:* B.S., Lehman Coll.

OFFICE OF THE VICE PRESIDENT FOR ENROLLMENT MANAGEMENT AND ASSOCIATE PROVOST

Reine T. Sarmiento, *Vice Pres. of Enrollment Management and Associate Provost:* A.A., B.A., National Univ.; M.S., Hunter Coll.; Ed.D., Fordham Univ.

Richard T. Finger, Jr., Sr. Dir., Enrollment Management (Higher Ed. Officer): B.S., St. Francis Coll.; M.S., Polytechnic Univ.; M.B.A., Touro Univ. Inter.

Althea Forde, *Sr. Dir., Academic Programs (Higher Ed. Officer):* B.A., Coll. of the Holy Cross; M.Ed., Harvard Univ.; Ed.D., Univ. of Pennsylvania.

Jay Mercado, *Dir. Enrollment Services and Communication (Higher Ed Officer):* B.S., Brooklyn Coll.

Sandra Morrison, *Admin. Coord. (Asst. to Higher Ed. Officer):* B.S., Fordham Univ.

Yvette Rosario, *Senior Registrar (Higher Ed. Officer):* B.S., Lehman Coll.; M.A., Queens Coll.

Vera Senese, *Dir., Fin. Aid (Higher Ed. Officer):* B.A., M.S., Fordham Univ.

Academic Advisement

Lisa Moalem, *Dir., Academic Advisement (Higher Ed. Officer):* B.A., Brandeis Univ.; Ed.M., Columbia Univ. Teachers Coll.

Dyan Atkins, *Academic Advisor (Higher Ed. Asst.):* B.A., Iona Coll.; M.S.Ed., Long Island Univ.

Denise Sands Baez, *Academic Advisor (Higher Ed. Asst.):* B.A., M.A., Lehman Coll.

Scott Calvin, *Academic Advisor (Higher Ed. Asst.):* B.A., Univ. of California; Ph.D., CUNY Grad. Cent.

Eliza De La Cruz, *Sen. Academic Advisor (Higher Ed. Asst.):* A.A.S., Bronx Comm. Coll.; B.A., M.S., Lehman Coll.

Crystal DeFour, *Academic Advisor (Higher Ed. Asst.):* B.S., SUNY Brockport; M.A., SUNY Binghamton.

Rafael Rosado, *Academic Advisor (Higher Ed. Asst.):* B.A., M.H.R., Univ. of Oklahoma; M.S.Ed., Lehman Coll.

Marc Ward, *Academic Advisor (Higher Ed. Assoc.):* B.A., Antioch Coll.; M.A., New York Univ.

Academic Standards and Evaluation

Liliana Calvet, *Dir. (Higher Ed. Officer):* B.A., Lehman Coll.; M.A., New York Univ.

Linda J. Martin, *Academic Standards Advisor (Higher Ed. Asst.):* B.A., Lehman Coll.; M.P.A., Baruch Coll.; M.S.Ed., Lehman Coll.

Academic Testing and Scholarships

Oscar Rigamonty, *Senior Testing Coord. (Asst. to Higher Ed. Officer):* B.A., Lehman Coll.

ACE (Accelerate, Complete, and Engage)

Mikhail Kaler, *Dir., ACE (Research Foundation):* B.A., Ramapo Coll.; M.B.A., Mercy Coll.

Chelsea Dash, *ACE Academic Advisor (Research Foundation):* B.S., Lehman Coll.

Delwing B. Gaines, *ACE Academic Advisor (Research Foundation):* B.S., St. Thomas Aquinas Coll.; M.S., Long Island Univ.

Kelly Matos, *ACE Program Asst. (Research Foundation):* B.A., Iona Coll.

Kimra Matthias, *ACE Academic Advisor (Research Foundation):* B.A., Lehman Coll.; M.P.A., City Coll.

Jeffrey Owusu, *ACE Academic Advisor (Research Foundation):* B.A., SUNY New Paltz.; M.S., SUNY Binghamton

Ashley Walker, *ACE Career Specialist (Research Foundation)*: B.A., Coll. of Mount St. Vincent.; M.S.Ed., Lehman Coll.

Admissions and Recruitment

Laurie Austin, *Dir. (Higher Ed. Officer)*: B.A., Manhattanville Coll.; M.A., Columbia Univ.

Peter Engel, *Assoc. Dir. (Higher Ed. Officer)*: B.A., Univ. of New Hampshire.

Valerie Brown, *Assoc. Dir. (Higher Ed. Assoc.)*: B.S., Wheaton Coll.

Gloria Figueroa, *Processing Coord. (Asst. to Higher Ed. Officer)*: B.A., Lehman Coll.

Jose Mancebo, *Assoc. Dir. (Higher Ed. Assoc.)*: B.B.A., Lehman Coll.

Erica Morales, *Admissions Counselor (Asst. to Higher Ed. Officer)*: B.A., Lehman Coll.

Miguel Pacheco, *Asst. Dir. (Asst. to Higher Ed. Officer)*: B.A., City Coll.

Aurea Rodriguez, *Asst. Dir. (Higher Ed. Asst.)*: B.A., Lehman Coll.

College Now Program

David Gantz, *Dir. (Higher Ed. Officer)*: B.A., New York Univ., M.A., CUNY Grad. Cent.

Griselda Santiago, *Coord. (Higher Ed. Assoc.)*: B.S, Mercy Coll.; M.S., Lehman Coll.

Tracy Mejia, *Program Asst. (Asst. to Higher Ed. Officer)*: B.A., York Coll.; M.P.A., Baruch Coll.

Roberto E. Ventura, *Campus Field Coord., CUNY Explorers (Asst. to Higher Ed. Officer)*: B.F.A., Lehman Coll.

Coordinated Freshman Programs (CFP) and English Composition and ESL

Steven Wyckoff, *Dir., CFP, Engl. Composition, ESL (Higher Ed. Officer)*: B.A., Lehman Coll.; M.A., New York Univ.

Enrollment Services and Communications

Juan Luna, *Dir., Student Communications (Higher Ed. Officer)*: B.S., Lehman Coll.; M.S., School of Professional Stud.

Jennifer Kallicharan, *Enrollment Mngr. (Higher Ed. Assoc.)*: B.A., Lehman Coll.

Financial Aid

Marie Gonzalez, *Assoc. Dir., FA Operations & Title IV Compl. (Higher Ed. Assoc.)*: B.A., Lehman Coll.

Eileen Pretzel, *Assoc. Dir., Loans & System Mgmt. (Higher Ed. Assoc.)*: B.A., M.S., Hunter Coll.

Nick Simos, *Assoc. Dir., Fin. Aid Systems (Higher Ed. Assoc.)*: B.S., St. John's Univ.; M.S., Fordham Univ.

Dominick Ciaccia, *Financial Aid Specialist (Higher Ed. Asst.)*: B.A., John Jay Coll. of Criminal Justice; M.S., Lehman Coll.

Yvette Orench-Negron, *Financial Aid Specialist (Higher Ed. Asst.)*: B.A., Hunter Coll.; M.S., Lehman Coll.

Rosa Torres, *Financial Aid Specialist (Higher Ed. Asst.)*: B.S., Lehman Coll.; M.P.A., John Jay Coll. of Criminal Justice

Carmen Laffranchini, *Financial Aid Specialist (Higher Ed. Asst.)*: B.S., CUNY School of Professional Studies

Iliya Tynan, *Financial Aid Specialist (Higher Ed. Asst.)*: B.A., M.A., Brooklyn Coll.

Josh Pacheco, *Financial Aid Coord. (Asst. to Higher Ed. Officer)*: B.S., B.A., City Coll. of New York

Darysa Abreu, *Financial Aid Coord. (Asst. to Higher Ed. Officer)*: B.A., M.S.W., Lehman Coll.

Ramona Texidor, *Financial Aid Coord. (Asst. to Higher Ed. Officer)*: B.A., Lehman Coll.

Paulette McCants, *Financial Aid Coord. (Asst. to Higher Ed. Officer)*: B.A., Hunter Coll.

Miriam Rivera, *Financial Aid Coord. (Asst. to Higher Ed. Officer)*: B.A., Lehman Coll.

Brenda Sanchez, *Financial Aid Coord. (Asst. to Higher Ed. Officer)*: B.A., Lehman Coll.

Tania Collado-Contreras, *Financial Aid Coord. (Asst. to Higher Ed. Officer)*: B.S., Antillean Adventist Univ.

The GPS Program (Go. Persist. Succeed.)

Gina Immucci, *Deputy Dir. (Higher Ed. Assoc.)*: B.A., Univ. of Central Florida; M.S., Florida Atlantic Univ.

Zenaida Bough, *Asst. Dir., The GPS Program (Higher Ed. Asst.)*: B.A., M.A., Lehman Coll.

Wanda Chen, *Sr. Academic Advisor (Higher Ed. Asst.)*: B.A. Stony Brook Univ. SUNY; M.A., New York Univ.

Graduate Studies

Takiyah A. Ali, *Deputy Dir., Grad. Studies & Success Initiatives (Higher Ed. Assoc.)*: B.S., Mount Saint Mary Coll.; M.S., Columbia Univ.

Scott Dames, *Dir., Special Projects*: B.A., M.A., Lehman Coll.

Marc Ward, *Pre Graduate Advisor (Higher Ed. Assoc.)*: B.A., Antioch Coll.; M.A., New York Univ.

Instructional Support Services

Marisol Jimenez, *Dir., ISSP (Higher Ed. Assoc.)*: B.A., Univ at Albany, SUNY; M.A., Purdue Univ.; Ed.M., Teachers Coll., Columbia Univ.

Lisa Estreich, *Writing and Literacy Coord., Lehman Tutoring Center (Higher Ed. Asst.)*: B.A., Harvard Univ., M.A., M.Phil., Columbia Univ.

Ainsley Parkinson, *Coord., Science Learning Center (Higher Ed. Asst.)*: B.S., State Univ. of New York at Binghamton; M.S., Lehman Coll.; M. Phil., Ph.D., CUNY Grad. Center.

Pathways to Student STEM Success Program

Christopher Milton, *Project Dir., Pathways to Student STEM Success Program*: B.S., SUNY Buffalo State Coll.

Rafael Gonzelez, *Campuses Dir., Pathways to Student STEM Success Program*: B.A., Lehman Coll.

Lyda Williams, *Academic Advisor, Pathways to Student STEM Success Program*: B.A., Lehman Coll.; Ph.D., Albert Einstein Coll. of Medicine

Felicita Reynoso, *Academic Advisor, Pathways to Student STEM Success Program*: B.A., Lehman Coll.; M.S.Ed., Long Island Univ.

Bernice Fisher, *Career Advisor, Pathways to Student STEM Success Program*: B.A., SUNY Binghamton; M.S.W., Hunter Coll.

Registrar

John Lucente, *Registrar (Higher Ed. Officer.)*: B.S., Fordham Univ.

Adeleke Akano, *Undergraduate Graduation Specialist (Higher Ed. Asst.)*: B.B.A., M.S., Lehman Coll.

Miguel Barragan, *Enrollment Coord. (Asst. to Higher Ed. Officer)*: B.S., Lehman Coll.

Michelle Bermudez, *Enrollment Coord. (Asst. to Higher Ed. Officer)*: B.A., Lehman Coll.

Denetra Christian, *Asst. Registrar (Higher Ed. Asst.)*: B.S., Brooklyn Coll.; M.S., Lehman Coll.

Marilyn DeCastro, *Undergraduate Graduation Specialist (Higher Ed. Asst.)*: B.B.A., M.A., Lehman Coll.

Sheniqua Fleming, *Graduate Graduation Specialist (Higher Ed. Asst.)*: B.A., SUNY Oswego; M.A., Lehman Coll.

Jean Geiger, *Scheduling Processor (Higher Ed. Asst.)*: B.A., Hunter Coll.; M.A., Queens Coll.

Milagros Gonzalez-Gallardo, *Scheduling Mgr. (Higher Ed. Assoc.)*: B.A., M.S.B., Lehman Coll.

Jacob Ortiz, *Undergraduate Graduation Specialist (Higher Ed. Asst.)*: B.A., John Jay Coll.

Rachel Negrón, *Enrollment Coord. (Asst. to Higher Ed. Officer)*: B.A., M.S., Lehman Coll.

Daniel Nicasio, *Master Scriber (Higher Ed. Assoc.)*: B.A., Baruch Coll.; M.S., The New School.

Maria Ramirez, *Admin. Coord. (Asst. to Higher Ed. Officer)*: B.A., M.S., Lehman Coll.

Nelsy Ramos, *Undergraduate Graduation Specialist (Higher Ed. Asst.)*: B.B.A., M.S.B., Lehman Coll.

Carmen Rodriguez, *TAP Coord. (Asst. to Higher Ed. Officer)*: B.A., Lehman Coll.

Rudranauth Nelson Tulsiram, *TAP Certifying Officer (Higher Ed. Assoc.)*: B.S., Lehman Coll.

SEEK (Search for Education, Elevation and Knowledge) Program

Althea Forde, *Admin. In Charge., SEEK (Higher Ed. Officer)*: B.A., Coll. of the Holy Cross; M.Ed., Harvard Univ.; Ed.D., Univ. of Pennsylvania.

Robert Cole, *SEEK Counselor (Higher Ed. Assoc.)*: B.A., Springfield Coll.; M.S.W., Hunter Coll; M.Div., Alliance Theological Seminary.

Nancy Colon, *SEEK Academic and Technology Coord. (Asst. to Higher Ed. Officer)*: B.S., Fordham Univ.; M.A., Columbia Univ.; C.A.S., SUNY New Paltz.

Diane Dellacorte, *SEEK Counselor (Higher Ed. Asst.)*: B.S., Mercy Coll.; M.S., Long Island Univ.

Candida Hernández, *SEEK Counselor (Higher Ed. Asst.)*: M.S., The Coll. of New Rochelle.

Angelia Holloway-Pinnock, *Dir., TRIO Pathways to Success (Research Foundation)*: B.A., Howard Univ., M.A., New York Univ.

Nusrat Hossain, *TRIO Counselor Advocate, SEEK (Research Foundation)*: B.A., Univ. of Michigan-Dearborn; M.A., New York Univ.; M.F.A., Sarah Lawrence Coll.

Lisa Jones, *SEEK Counselor (Lect.)*: M.S., Mental Health Counseling & M.S., Science in Counselor Education/School Counseling.

Pedro P. Luna, *SEEK Counselor (Higher Ed. Assoc.)*: B.A., Hobart Coll.; M.S., Syracuse Univ.

Lida Mora, *SEEK Counselor (Higher Ed. Asst.)*: B.A., Lehig Univ.; M.S.W., Hunter Coll. School of Social Work.

Alberto Navarro, *SEEK Counselor/Lect., (Doct.)*: B.A., M.A., The City Coll. of New York; M.S., Lehman Coll.; Ph.D., New York Univ.

Walter Valero, *SEEK Program Mngr., SEEK (Higher Ed. Assoc.)*: M.L.S., Queens Coll.; M.S., Manhattanville Coll.

Strategic Persistence Initiatives

Ronald L. Banks, Jr., *Dir. (Higher Ed. Officer)*: B.A., Bowdoin Coll.; M.A., Bowling Green State Univ.

Eliza De La Cruz, *Admissions Coord. (Asst. to Higher Ed. Officer)*: B.A., Lehman Coll.

Student Success Initiatives

Christopher J. Buonocore, *Dir. (Higher Ed. Officer)*: B.A., Queens Coll.; M.S.Ed., Baruch Coll.

OFFICE OF THE ASSOCIATE PROVOST FOR ACADEMIC PROGRAMS AND EDUCATIONAL EFFECTIVENESS

Victor M. Brown, *Associate Provost for Academic Programs and Educational Effectiveness*: B.S., Univ. of the West Indies, Mona.; Cert., Univ. of London, Wye Coll.; M.B.A., Emory Univ., Goizueta Business Sch.; Ph.D., Univ. of the West Indies, Mona.

Carole Weisz, *Assoc. Dir., Academic Programs/LEH (Higher Ed. Assoc.)*; *Adj. Asst. Prof.*: B.A., Hunter Coll.; Ph.D., Purdue Univ.

Sophia Diamantis-Fry, *Acad. Affairs Mngr. (Higher Ed. Assoc.)*: B.A., Lehman Coll.; M.A., Hunter Coll.

Office of Assessment and Educational Effectiveness

Donald Sutherland, *Assessment Mngr. (Higher Ed. Asst.)*: B.B.A., Iona Coll.; M.B.A., McGill Univ.

Macaulay Honors College at Lehman and Lehman Scholars Program

Gary Schwartz, *Dir., Macaulay Honors Coll. at Lehman and Lehman Scholars Program*; *Prof., Langs. & Lits.*: A.B., Columbia Coll.; B.A., M.A., Jesus Coll., Cambridge Univ.; Ph.D., Columbia Univ.

Christopher Bonastia, *Assoc. Dir., Macaulay Honors Coll. at Lehman and Lehman Scholars Program*; *Assoc. Prof., Soc.*: B.A., Univ. of Virginia; M.A., Ph.D., New York Univ.

Lena Tuck, *Senior Advisor (Higher Ed. Asst.)*: B.A., State Univ. of New York at Binghamton; M.A., Teachers Coll., Columbia Univ.

Office of Online Education

Olena Zhadko, *Dir. (Higher Ed. Officer)*: B.A., Nizhyn Gogol State Univ., M.Ed., Ph.D., Univ. of Missouri—St. Louis.

Susan Ko, *Faculty Dev. Consultant*; *Clin. Faculty, Hist.*: B.A. Univ. of Washington; M.A., Ph.D., Yale Univ.

Office of Prestigious Awards

Alice Michelle Augustine, *Dir., Office of Prestigious Awards*; *Adj. Asst. Prof., Engl.*: B.A., Lehman Coll.; J.D., Loyola Univ.

Quantitative Reasoning

Mia Budescu, *Coord., QR Prog.*; *Asst. Prof., Psych.*: Ph.D., Temple Univ.

Writing Across the Curriculum

Tiffany DeJaynes, *Co-Coord., Writing Across the Curriculum*; *Asst. Prof., Middle & H.S. Ed.*: B.A., William Jewell Coll.; M.A., Univ. of Kansas; Ed.D., Teachers Coll., Columbia Univ.

Vani Kannan, *Co-Coord., Writing Across the Curriculum*; *Asst. Prof., Engl.*: B.A., Barnard Coll.; M.A., State Univ. of Col.; Ph.D., Syracuse Univ.

OFFICE OF THE VICE PRESIDENT FOR ADMINISTRATION AND FINANCE

Rene Rotolo, *Vice President for Administration and Finance/CFO*: B.F.A., Fashion Inst. of Tech.; M.P.A., Baruch Coll.

Diane B. Clarke, *Dir. of Administrative Operations (Higher Ed. Officer)*: B.S., M.B.A., New York Institute of Tech.

Budget and Planning

Bethania Ortega, *Dir. (Higher Ed. Officer)*: B.S., Lehman Coll.

Campus Planning and Facilities

Robin Auchincloss, *Dir., Campus Planning & Facilities*: B.A., Brown Univ.; M.A., Columbia Univ. Graduate School of Architecture, Preservation and Planning.

Environmental Health and Safety

Ilonia Linins, *Environmental Health & Safety Officer (Higher Ed. Assoc.)*: B.S., Manhattan Coll.; M.P.H., Hunter Coll.

Shaldon Watson, *Chemical Hygiene Office (Higher Ed. Asst.)*: B.S., State Univ. of New York at Stony Brook; M.P.H., Lehman Coll.

Event Planning and Reservations

Aleigi Dumé, *Event Planning Assoc.*: B.A., Lehman Coll.

Financial Operations

Gina Harwood, *Asst. Vice Pres. for Financial Operations*: B.A., SUNY Albany; M.P.A., Syracuse Univ.

Temesgen Gebrekidan, *CPA, Controller, General Accounting (Higher Ed. Officer)*: B.S., New Jersey City Univ.

Luz Andujar, *Assoc. Controller, General Accounting (Higher Ed. Assoc.)*: B.A., Lehman Coll.

Jennie Vanterpool, *Fin. Specialist, General Accounting (Higher Ed. Asst.)*: B.S., Lehman Coll.

Andrea Pinnock, *Dir., Auxiliary Services (Higher Ed. Officer)*: B.S., M.S., Lehman Coll.

Anjanette Antonio, *Procurement Dir., Purchasing & Contracts (Higher Ed. Officer)*: B.A., Lehman Coll.

Sonia Rodriguez, *Finance Mgr., Accounts Payable (Higher Ed. Assoc.)*: B.A., Lehman Coll.

Arlene Young-Irizariz, *Finance Coord., Accounts Payable (Asst. to Higher Ed. Officer)*: B.A., Stony Brook Univ.

Samantha Cancel, *Finance Coord., Accounts Payable (Asst. to Higher Ed. Officer)*: B.A., Lehman Coll.

Kelly Phung, *Enrollment Bursar Dir., Bursar (Higher Ed. Officer)*: B.S., Lehman Coll.

Christopher Mowatt, *Enrollment Bursar Mngr., Bursar (Higher Ed. Assoc.)*: B.S., SUNY New Paltz

Richard Rolle, *Enrollment Bursar Specialist, Bursar (Higher Ed. Asst.)*: B.S., SUNY Purchase

Karlene Johnson, *Enrollment Bursar Coord., Bursar (Asst. to Higher Ed. Officer)*: B.F.A., Lehman Coll.

Human Resources

Eric Washington, *Dir. (Higher Ed. Officer)*: B.A., Pace Univ.; J.D., Columbia Univ.

Lehman Center for the Performing Arts

Eva Bornstein, *Exec. Dir. (Higher Ed. Officer)*: B.A., York Univ.

Lehman Stages

Dante Albortie, *Dir. (Higher Ed. Officer)*: B.A., M.A., Purchase Coll.

Henry Ovalles, *Assoc. Dir. (Higher Ed. Assoc.)*: B.A., M.S., Lehman Coll.

Christopher Higgins, *Technical Dir. (Higher Ed. Asst.)*: B.A., Univ. of Pennsylvania; M.F.A., Yale Univ.

Felix Otero, *Prod. Mngr. (Asst. to Higher Ed. Officer)*: B.A., M.S., Lehman Coll.

Amira Mustapha, *Prod. Services Coord.*: B.A., M.S., Lehman Coll.

Aleigi Dumé, *Event Planning Assoc.*: B.A., Lehman Coll.

Public Safety

Fausto Ramirez, *Dir. (College Security Dir. L/4)*: B.S., John Jay Coll.

OFFICE OF THE VICE PRESIDENT FOR INSTITUTIONAL ADVANCEMENT

Susan Ebersole, *Vice Pres., Institutional Advancement*: B.A., Goshen Coll.; M.F.A., Hunter Coll.

Danielle Jean-Marie, *Chief of Staff (Higher Ed. Officer)*: B.A., City Coll. of New York; M.S.Ed., Cambridge Coll.

Fredrick Gilbert, *Deputy Dir., Herbert H. Lehman College Foundation and Major Gifts Officer (Higher Ed. Officer)*: B.A., Amherst Coll.; M.S., New School for Soc. Research.

Tara Regist Tomlinson, *Dir. of Advance Initiatives (Higher Ed. Officer)*: B.A., Skidmore Coll.; M.P.A., Baruch Coll.

Felix Robert Pagan, *Assoc. Dir. of Alumni Engagement and Annual Fund (Higher Ed. Assoc.)*: B.S., New York Univ.; M.S., Lehman Coll.

Dariana Reyes, *Database Coord. (Asst. to Higher Ed. Officer)*: B.A., Lehman Coll.

Art Gallery

Bartholomew F. Bland, *Exec. Dir. (Higher Ed. Officer)*: B.A., Florida Atlantic Univ.; M.A., George Washington Univ.; M.A., Hunter Coll.

OFFICE OF THE VICE PRESIDENT FOR STUDENT AFFAIRS

Stanley A. Bazile, *Exec. in Charge Student Affairs and Dean of Students*: B.A., M.S.W., Stony Brook Univ.; Ph.D., Pennsylvania State Univ.

Conrad Walker, *Dir. of Strategic Initiatives & Special Projects (Higher Ed. Officer)*: B.S., Morgan State Univ.; M.A., New York Univ.; Ed.M., Teachers Coll., Columbia Univ.; M.Phil., The New School

APEX / Athletics

Martin Zwiren, *Dir. of Athletics/APEX (Higher Ed. Officer)*: B.S., Univ. of Dayton; M.S.Ed.; Temple Univ.; Ed.D., Fordham Univ.

Lenn Margolis, *Sports Info. Dir. (Higher Ed. Asst.):* B.S., Univ. of Massachusetts; M.B.A., Hofstra Univ.

Peter J. Kiernan, *Aquatics Dir. (Higher Ed. Assoc.):* B.A., M.S., Lehman Coll.

Robert Harris, *Dir., Fitness Center (Higher Ed. Assoc.):* B.A., State Univ. of New York at Cortland; M.A., Univ. of Conn.

Campus Life

Michael E. Sullivan, *Dir.:* B.A., Stonehill Coll.; M.Ed., Fordham Univ.

Suzette Ramsundar, *Assoc. Dir. (Higher Ed. Assoc.):* B.A., Hunter Coll.; M.S.Ed., Lehman Coll.; M.A., Columbia Univ.

David Charcape, *Asst. Dir.:* B.S., Lehman Coll.; M.S.O.L., Lehman Coll.

Nathaniel C. Gasque, *Asst. Dir.:* B.B.A., Lehman Coll.

Career Exploration & Development Center

Bascillia Toussaint, *Dir., Career Exploration & Development Center (Higher Ed. Officer):* B.A., Hunter Coll.; M.A., Columbia Univ.

Luisiana Baez-Canela, *Internship Coord. (Higher Ed. Asst.):* B.A., Hunter Coll.; M.P.A., Baruch Coll.

Diane S. Machado, *Career Adviser (Higher Ed. Asst.):* B.S., Fordham Univ.; M.A., Columbia Univ.

Navisha Maharaj, *Career Adviser (Higher Ed. Asst.):* B.A., Queens Coll.; M.S., Mercy Coll.

Nicole McFarlane, *Career Adviser (Higher Ed. Asst.):* B.S., St. John's Univ.; M.S., M.A., Columbia Univ.

Child Care Center

Jaci Maurer, *Dir.:* B.A., M.S., Pace Univ.

Counseling Center

Karen Smith-Moore, *Dir. (Higher Ed. Officer):* B.A., Hunter Coll.; M.S.W., Hunter Coll.

Shoshana Kaish, *Counselor (Higher Ed. Assoc.):* B.A., Yeshiva Univ.; M.S., Yeshiva Univ.; PsyD., Long Island Univ.-Post

Weny Paulino, *Counselor (Higher Ed. Assoc.):* B.A. Lehman Coll.; M.S.W., Yeshiva Univ.

Megan Wilen, *Counselor (Higher Ed. Assoc.):* B.A., Binghamton Univ.; M.S.W., Columbia Univ.

CUNY Edge

Tara Carson-Pace, *Dir., CUNY EDGE:* B.A., M.S., Manhattan Coll.

Stephanie Parra, *Academic Advisor:* A.A., B.A., Lehman Coll.

Jacqueline Hylton-Legge, *Academic Advisor:* B.A., City Coll.; M.S., Capella Univ.

Keira Gaton, *Program Asst.:* B.A., Lehman Coll.

Aaron Griles, *Career Advisor:* B.A., Mount Saint Mary Coll.

New Student Programs

Denny Santos, *Asst. Dir. (Higher Ed. Asst.):* B.A., Purchase Coll.; M.S.Ed., Grand Valley State Univ.

Student Disability Services

Merrill D. Parra, *Dir. (Higher Ed. Officer):* B.A., Queens Coll.; M.S.W., Columbia Univ.

Gabriella Kohler, *Assoc. Dir. (Higher Ed. Assoc.):* B.A., Hunter Coll.; M.A., E.D.M., Columbia Univ.

Pedro Laureano, *Asst. Tech. Mngr. (Higher Ed. Asst.):* B.A., Lehman Coll.

Student Health Center

Cindy Kreisberg, *Dir.:* B.S., Syracuse Univ.; R.P.A.-C, Pennsylvania State Univ.

Urban Male Leadership Program

Michael A. Deas, *Dir. (Higher Ed. Officer):* B.A., Lehman Coll.; M.S.W., Fordham Univ.

Alade S. McKen, *Asst. Dir. (Higher Ed. Asst.):* B.A., State Univ. of New York at Binghamton; M.S.Ed., Baruch Coll.

Veterans and Military Affairs

Luis E. Soltero-Rodriguez, *Dir. (Higher Ed. Assoc.):* B.S., M.S.B., Lehman Coll.

Wellness Education and Health Promotion Program

Dugeidy Ortiz, *Dir.:* B.A., Hunter Coll.; M.A., Univ. of Connecticut

Ashmini Hiralall, *Coord. (Asst. to Higher Ed. Officer):* B.A., Connecticut Coll.; M.A., Syracuse Univ.

OFFICE OF THE VICE PRESIDENT FOR INFORMATION TECHNOLOGY

Ronald M. Bergmann, *Vice Pres. of Information Technology and Chief Info. Officer:* B.S., Union Coll.; M.S., The New School

Ediltrudys Ruiz, *Asst. Vice Pres. of Information Technology:* B.B.A., M.S., M.S.Ed., Baruch Coll.

Faculty

Distinguished Professors

The Board of Trustees designates full professors in The City University of New York as "distinguished" for a body of work that has advanced understanding and defined new directions of inquiry or creativity. Lehman College is proud that five members of its current faculty have achieved this selective rank, reserved for a very small group of highly influential scholars and artists.

Laird W. Bergad

Distinguished Professor, Latin American, Latino & Puerto Rican Studies

Eugene Chudnovsky

Distinguished Professor, Physics & Astronomy

John P. Corigliano

Distinguished Professor, Music

Joseph W. Dauben

Distinguished Professor, History

Victor Pan

Distinguished Professor, Mathematics & Computer Science

Permanent Instructional Staff (Teaching)

The faculty listing contains the names of the full-time instructional staff as of November 2021.

Adams, Emilie, *Asst. Prof., Health Sci.*: B.S., M.S., Brigham Young Univ.; Ph.D., Clemson Univ.

Ahmed, Siraj, *Prof., Engl.*: B.A., Univ. of Penn.; M.A., Ph.D., Columbia Univ.

Aisemberg, Gabriel, *Asst. Prof., Biol. Sci.*: M.Sci., Ph.D., Univ. of Buenos Aires—Argentina.

Alborn, Timothy, *Prof., Hist.*: B.A., Ph.D., Harvard Univ.

Alex, Jonathan, *Lect., Soc. Wk.*: B.A., Lehman Coll.; M.S.W., New York Univ. School of Soc. Wk.

Alexander-Street, Ayanna, *Lect., Biol. Sci.*: B.S., Univ. of Connecticut; Ph.D., CUNY Grad. Cent.

Allebban, Eman, *Asst. Prof., Philos.*: B.A., Univ. of Michigan, Dearborn; Ph.D., McGill Univ.

Almodovar, Diana, *Doct. Lect., Speech-Lang.-Hearing Sci.*: B.A., Lehman Coll.; M.A., Queens Coll., Ph.D., CUNY Grad. Cent.

Alonso, Orlando, *Assoc. Prof., Middle & High School Ed.*: B.S., High Inst. of Pedagogy Felix Varela; M.A., City Coll. of New York; Ed.D., Columbia Univ.

Alto, Andrew, *Asst. Prof., Health Sci.*: B.S., M.A., Lehman Coll.

Amarante, Sarswati, *Sen. Lab. Tech., Chem.*: B.S., M.S., St. John's Univ.

Amend, Allison, *Prof., Engl.*: B.A., Stanford Univ.; M.F.A., Univ. of Iowa.

Anchordoqui, Luis, *Prof., Phys. & Astron.*: B.S., Ph.D., Univ. Nacional de La Plata—Argentina.

Anderson, James, *Assoc. Prof., Engl.*: B.A., Washington Univ.; M.S., Columbia Univ.

Anekstein, Alyse M., *Asst. Prof., Cslg., Ldrshp., Lit., & Sp. Ed.*: B.A., State Univ. of New York at Albany; M.S., Univ. of Nevada—Las Vegas; Ph.D., Idaho State Univ.

Arzola, Rebecca, *Asst. Prof., Libr.*: M.L.S., Pratt Inst.

Bacon, Michael, *Assoc. Prof., Mus., Multimed., Theatre, and Dance*: B.S., Lehman Coll.

Badillo, David, *Assoc. Prof., Lat. Amer. & Latino Stud.*: B.A., Univ. of Cal. at Berkeley; Ph.D., CUNY Grad. Cent.

Baldwin, Barbara, *Clin. Asst. Prof., Nurs.*: Nursing Diploma, St. Elizabeth Hospital Sch. of Nurs.; B.S.N., SUNY New Paltz; M.S., Pace Univ.; Post-Master Pediatric Nurse Pract., Hunter Coll.; Post-Master Doc. of Nursing Practice, Brandman Univ.

Bamshad-Alavi, Maryam, *Prof., Biol. Sci.*: B.S., M.S., Ph.D., Univ. of Mass.

Baraldi, Carole, *Asst. Prof., Nurs.*: B.S., Lehman Coll.; M.S. Long Island Univ.; Ed.D. Teachers Coll., Columbia Univ.

Barreras, Nicole, *Coll. Lab. Tech., Art*: B.S., Lehman Coll.

Battipaglia, Diana M., *Prof., Mus., Multimed., Theatre, and Dance*: B.S., M.S., Juilliard Sch.; D.M.A., Eastman Sch. of Music.

Bayne, Gillian, *Assoc. Prof., Middle & High School Ed.*: B.S., Coll. of New Rochelle; M.A., New York Univ.; Ph.D., CUNY Grad. Cent.

Beck, Karin, *Assoc. Prof., Langs. & Lits.*: M.A., Free Univ. of Berlin; M.Phil., Ph.D., Columbia Univ.

Behrman, Alison, *Assoc. Prof., Speech-Lang.-Hearing Sci.*: B.A., Univ. of Michigan; M.A., New York Univ., Ph.D., Columbia Univ.

Behrstock, Jason, *Prof., Math.*: B.A., Univ. of Cal. at Berkeley; Ph.D., State Univ. of New York at Stony Brook.

Belardo, John, Sr., *Coll. Lab. Tech., Art*: M.F.A., New York Acad. of Art.

Benefo, Kofi, *Assoc. Prof., Soc.*: B.A., Univ. of Ghana; M.A., Univ. of Iowa; Ph.D., Univ. of Mich.

Bergad, Laird W., *Dist. Prof., Lat. Amer. & Latino Stud.*: B.A., Univ. of Wisc., M.A.; Ph.D., Univ. of Pittsburgh.

Bettiol, Renato Ghini, *Asst. Prof., Math.*: B.S., M.S., Univ. of São Paulo, Brazil; M.S., Ph.D., Univ. of Notre Dame.

Bishop, Shirley, *Lect., Econ. & Bus.*: A.A.S.S., Borough of Man. Comm. Coll.; B.B.A., Baruch Coll.; SPHR Cert. Sen. Prof. in HR Mgt. Baruch Coll., Exec. MSILR, Baruch Coll.

Blachman, Sheila, *Lect., Cslg., Ldrshp., Lit., & Sp. Ed.*: B.A., Queens Coll.; M.A., M.Ed., Ed.D., Teachers Coll., Columbia Univ.

Bloom, Ira, *Prof., Pol. Sci.*: B.A., City Coll. of New York; J.D., Harvard Univ.

Bonastia, Christopher, *Prof., Soc.*: B.A., Univ. of Virginia; M.A., Ph.D., New York Univ.

Boo, Chanil, *Asst. Prof., Econ. & Bus.*: B.A., Seoul National Univ.; M.S., State Univ. of New York at Buffalo; Ph.D., Univ. of North Carolina at Chapel Hill.

Boston, Nicholas, *Assoc. Prof., Journalism and Med. Stud.*: B.A., McGill Univ.; M.S., Columbia Univ.

Boyar, Andrea, *Assoc. Prof., Health Sci.*: B.S., M.N.S., Ph.D., Cornell Univ.

Boylan, Mary, *Lect., Speech-Lang.-Hearing Sci.*: B.A., M.A., Lehman Coll.

Broderick, Herbert R., III, *Prof., Art*: A.B., Columbia Coll.; M.A., M.Phil., Ph.D., Columbia Univ.

Brown, Marcia, *Chief Coll. Lab. Tech., Nurs.*: B.A., M.A., Lehman Coll.

Brown, Melissa C., *Assoc. Prof., Art*: B.F.A., Rhode Island Sch. of Design; M.F.A., Yale Univ.

Brucker-Cohen, Jonah, *Asst. Prof., Journalism and Med. Stud.*: B.A., McGill Univ.; M.P.S., New York Univ.; Ph.D., Trinity Coll.

Brusi, Rima, *Dist. Lect., Anthro.*: B.A., Univ. of Puerto Rico at Mayagüez; M.A., Ph.D., Cornell Univ.

Bryant, Salita S., *Assoc. Prof., Engl.*: B.S., Georgia Southern Univ.; M.F.A., New York Univ.; M.A., M.Ed., Ph.D., Univ. of Miss.

Buckley, Michael, *Assoc. Prof., Philos.*: B.B.A., Baruch Coll.; B.A., Hunter Coll.; Ph.D., Emory Univ.

Budescu, Mia, *Asst. Prof., Psych.*: B.A., Indiana Univ.; M.A., New York Univ.; Ph.D., Temple Univ.

Bues, Carol, *Doct. Lect., Nurs.*: B.S., Hunter Coll. School of Nursing; M.S.N., Downstate Univ., Coll. of Health Related Profession/School of Nursing; D.N.P., Stony Brook Univ. School of Nursing SUNY.

Buonanotte, Steve, *Coll. Lab. Tech., Mus., Multimed., Theatre, and Dance*: B.A., Berklee Coll. of Music.

Burke, Martin, *Assoc. Prof., Hist.*: B.A., City Coll. of New York; M.A., Ph.D., Univ. of Michigan.

Burns, Mila, *Asst. Prof., Lat. Amer. & Latino Stud.*: B.A., M.A., Univ. Federal de Janeiro; M.A., Columbia Univ.; Ph.D., CUNY Grad. Cent.

Burt, Katherine, *Asst. Prof., Health Sci.*: Ph.D., Teachers Coll., Columbia Univ.

Burton-Pye, Benjamin, *Asst. Prof., Chem.*: B.Sc., Univ. of Surry; Ph.D., Univ. of Manchester.

Campbell, Eleanor, *Assoc. Prof., Nurs.*: B.S., Alfred Univ.; M.A., M.Ed., Ed.D., Teachers Coll., Columbia Univ.

Campeanu, Sandra, *Lect., Psych.*: B.S., McGill Univ.; M.A., Ph.D., Univ. of Toronto.

Cange, Charles, *Asst. Prof., Health Sci.*: Ph.D., Univ. of Washington.

Cao-Alvira, Jose, *Prof., Econ. & Bus.*: B.A., Univ. of Puerto Rico; M.S., Ph.D., Cornell Univ.

Caprioli, Matthew, *Lect., Engl.*: B.A., Univ. of Alaska, Anchorage; M.F.A., Hunter Coll.

Carey, Rosalind, *Assoc. Prof., Philos.*: B.A., Assumption Coll.; Ph.D., Boston Univ.

Carney, James T., *Asst. Prof., Journalism and Med. Stud.*: B.A., Fordham Univ.; M.A., Coll. of New Rochelle.

Carrellas, Paul, *Lect., Art*: B.F.A., Swain Sch. of Design; M.F.A., Queens Coll.

Carillo, Heana, *Asst. Prof., Health Sci.*: M.A., Hofstra Univ.; Ed.D., Dowling Coll.

Case, Claudia W., *Asst. Prof., Mus., Multimed., Theatre, and Dance*: B.A., Auburn Univ., Montgomery; M.F.A., D.F.A., Yale Univ.

Castillo-Planas, Melissa, *Asst. Prof., Engl.*: B.A., New York Univ.; M.A., Fordham Univ.; Ph.D., Yale Univ.

Castro, Alejandro, *Coll. Lab. Tech., Mus., Multimed., Theatre, and Dance*: B.S., Lehman Coll.

Cavallo, Stephen A., *Assoc. Prof., Speech-Lang.-Hearing Sci.*: B.S., State Univ. Coll. of New York—Oneonta; M.S., Teachers Coll., Columbia Univ.; Ph.D., Columbia Univ.

Chen, Ning, *Prof., Econ. & Bus.*: B.S., M.S., Nanjing Normal Univ.; Ph.D., East China Normal Univ.

Cheng, Hai-ping, *Prof., Biol. Sci.*: B.S., M.S., Fudan Univ.; Ph.D., Univ. of Massachusetts at Amherst.

Chen-Hayes, Stuart, *Prof., Cslg., Ldrshp., Lit., & Sp. Ed.*: B.A., M.Ed., Indiana Univ.; Ph.D., Kent State Univ.

Choudhary, Amod, *Assoc. Prof., Econ. & Bus.*: B.A., State Univ. of New York at Stony Brook; M.B.A., Fairleigh Dickinson Univ.; J.D., Univ. of Buffalo.

Christian, Mark, Prof., Afr. Stud.: B.A., Liverpool Hope Univ.; M.A., Ohio State Univ.; Ph.D., Univ. of Sheffield, England.

Chudnovsky, Eugene, Dist. Prof., Phys. & Astron.: B.S., M.S., Ph.D., Kharkov Univ.—Ukraine.

Claman, David, Assoc. Prof., Mus., Multimed., Theatre, and Dance: B.A., Wesleyan Univ.; M.M., Univ. of Colorado at Boulder; M.F.A., Ph.D., Princeton Univ.

Cleary, Joseph, Sub. Lect., Soc.: B.A., Franklin & Marshall Coll.; M.S., Fordham Univ.; M.A., Ph.D., Louisiana State Univ.

Cleland, Jane., Lect., Engl.: B.A., Univ. of Denver; M.B.A., Babson Coll.; M.F.A., Western Connecticut State Univ.

Clifton, Margaret, Lect., Nurs.: B.S., M.S., Adelphi Univ.; Ed.D., Argosy Univ.

Colburn, Forrest D., Prof., Lat. Amer. & Latino Stud.: B.A., Univ. of Cal. at Santa Cruz; M.A., Ph.D., Cornell Univ.

Coller, Alexandra, Assoc. Prof., Langs. & Lits.: B.A., Hunter Coll.; M.A., Ph.D., New York Univ.

Collett, Jennifer, Asst. Prof., Early Childh. & Childh. Ed.: B.S., Boston Coll.; M.A., Ph.D., Univ. of Cal. at Berkeley.

Conner, Peggy, Assoc. Prof., Speech-Lang.-Hearing Sci.: Ph.D., CUNY Grad. Cent.

Conroy, Thomas, Lect., Soc.: B.A., St. Peter's Coll.; M.A., Univ. of Wisc. at Madison; Ph.D., Boston Univ.

Cooper, Wendell, Asst. Prof., Journalism and Med. Stud.: B.A., George Washington Univ.; M.F.A., Hunter Coll.; 500hr RYT, The Yoga School NY.

Cruz, Celia, Doct. Lect., Math.: B.S., M.A., Phillippine Normal Univ.; Ph.D., De La Salle Univ., Phillippines.

Cutler, Cecelia, Prof., Middle & H.S. Ed.: B.A., Barnard Coll.; M.A., Ph.D., New York Univ.

Dauben, Joseph W., Dist. Prof., Hist.: A.B., Claremont Coll.; M.A., Ph.D., Harvard Univ.

Deckman, Sherry, Asst. Prof., Middle & H.S. Ed.: B.A., Univ. of Pennsylvania; Ed.M., Ed.D., Harvard Univ. Graduate Sch. of Education.

DeJaynes, Tiffany, Asst. Prof., Middle & H.S. Ed.: B.A., William Jewell Coll.; M.A., Univ. of Kansas; Ed.D., Teachers Coll., Columbia Univ.

DelaCruz, Juan, Assoc. Prof., Econ. & Bus.: B.A., National Autonomous Univ. of Mexico; M.A., M.Phil., Ph.D., New School for Social Research.

Delson, Eric, Prof., Anthro.: A.B., Harvard Coll.; Ph.D., Columbia Univ.

Demmer, Craig, Prof., Health Sci.: B.S.S., Univ. of Natal (South Africa); M.A., Brooklyn Coll.; Ed.D., Columbia Univ.

Deri, Melissa, Asst. Prof., Chem.: B.A., M.S., New York Univ.; Ph.D., CUNY Grad. Cent.

DeSimone, Janet, Assoc. Prof., Cslg., Ldrshp., Lit., & Sp. Ed.: B.A., Marist Coll.; M.A., SUNY-New Paltz; P.D., Ed.D., St. John's Univ.

DesRochers, Rick, Assoc. Prof., Dir. of Theatre, Mus., Multimed., Theatre, and Dance: B.A., Arizona State Univ.; M.F.A., Univ. of Mass.—Amherst; Ph.D., CUNY Grad. Cent.

Dest, Anthony, Asst. Prof., Anthro.: B.A., Univ. of North Carolina, Chapel Hill; M.A., Ph.D., Univ. of Texas at Austin.

Deveaux, Faith, Assoc. Prof., Cslg., Ldrshp., Lit., & Sp. Ed.: B.A., Skidmore Coll.; M.A., Ph.D., New York Univ.

DiGangi, Mario, Prof., Engl.: B.A., M.A., M. Phil., Ph.D., Columbia Univ.

Dobson, Cassandra, Assoc. Prof., Nurs.: B.S., M.S., Lehman Coll.; D.N.S., Columbia Univ.

Dominguez, Victoria, Asst. Prof., Anthro.: B.A., M.A., New York Univ.; Ph.D., The Ohio State Univ.

Dominique Hersey, Gina, Assoc. Prof., Art: B.F.A., Carnegie-Mellon Univ. and the Corcoran Coll. of Art & Design; M.F.A., Univ. of New Mexico.

Dowling, Rhiannon, Asst. Prof., Hist.: M.A., Univ. of Maryland Baltimore; Ph.D., Univ. of Cal. at Berkeley.

Downing, Martin, Asst. Prof., Psych.: B.S., Georgia State Univ.; M.S., Univ. of Tenn. at Chattanooga; Ph.D., CUNY Grad. Cent.

Doyran, Mine, Assoc. Prof., Econ., & Bus.: B.A., Bogazici Univ.—Turkey; Ph.D., State Univ. of New York—Albany.

Dubetz, Nancy, Prof., Early Childh. & Childh. Ed.: B.A., Kent State Univ.; M.A., Ohio State Univ.; Ed.D., Teachers Coll., Columbia Univ.

Dumais, Susan, Assoc. Prof., Soc.: B.A., Columbia Univ.; M.A., Ph.D., Harvard Univ.

Duncan, Monica, Asst. Prof.: Mus., Multimed., Theatre, and Dance: B.F.A., NYSCC School of Art & Design at Alfred Univ.; M.F.A., Univ. of Cal. at San Diego; M.A., Justus-Liebig-Univ. Giessen, Germany.

Duran-Urrea, Evelyn, Asst. Prof., Lang. & Lit.: B.A., Univ. of Sonora (Mexico); M.A., Univ. of Arizona; Ph.D., Penn State Univ.

Durham, I. Augustus, Asst. Prof., Engl.: B.A., Univ. of Pennsylvania; M.Div., Princeton Theological Seminary; M.A., Ph.D., Duke Univ.

Ehrenberg, Jonathan, Asst. Prof., Art: B.A., Brown Univ., M.F.A., Yale Univ.

Elhakem, Sharif, *Chief Coll. Lab. Tech., Chem.*: B.S., M.A., Lehman Coll.

Erfani, Amin, *Asst. Prof., Langs. & Lits.*: Ph.D., Emory Univ.

Espinosa, Cecilia, *Assoc. Prof., Early Childh. & Childh. Ed.*: B.A., M.Ed., Ph.D., Arizona State Univ.

Esteves, Carmen C., *Assoc. Prof., Langs. & Lits.*: B.A., Univ. of Puerto Rico; Ph.D., CUNY Grad. Cent.

Ethan, Danna, *Prof., Health Sci.*: B.A., Franklin & Marshall Coll.; M.S.W., New York Univ.; M.A., Ed.D., Columbia Univ.

Eubank, Jacob, *Asst. Prof., Health Sci.*: B.S., M.Ed., Bowling Green State Univ.; Ed.D., Univ. of North Carolina, Wilmington.

Eure, Eve, *Asst. Prof., Engl.*: B.A., Smith Coll.; Ph.D., Univ. of Pennsylvania.

Fakhouri, Sameh, *Lect., Computer Sci.*: B.S., Columbia Univ.; M.S., New York Univ.

Farrell, Robert, *Asst. Prof., Libr.*: B.A., Columbia Univ.; M.L.S., State Univ. of New York at Buffalo; M.A., CUNY Grad. Cent.

Fayne, Harriet, *Prof., Cslg., Ldrshp., Lit., & Sp. Ed.*: B.A., Barnard Coll.; M.A.T., Harvard Univ.; M.A., M.Ed., Teachers Coll., Columbia Univ.; Ph.D., Columbia Univ.

Feigenbaum, Itai, *Asst. Prof., Computer Sci.*: B.S., Rutgers Univ.; M.S., Ph.D., Columbia Univ.

Fenton, Dana, *Lect., Soc.*: B.A., M.S., New York Univ.

Fera, Joseph, *Assoc. Prof., Math.*: B.A., Vassar Coll.; Ph.D., Wesleyan Univ.

Fernández, Daniel R., *Assoc. Prof., Langs. & Lits.*: B.A., Univ. of Cal. at Los Angeles.; M.A., M. Phil., Ph.D., Columbia Univ.

Fiack, Duran, *Asst. Prof., Pol. Sci.*: B.A., Cal. State Univ. at Sacramento; M.S., Univ. of Cal. at Davis; Ph.D., Univ. of Cal. at Santa Cruz.

Fields, Judith, *Asst. Prof., Econ., & Bus.*: B.A., M.U.P., Ph.D., New York Univ.

Fisch, Oscar, *Prof., Econ., & Bus.*: M.A., Univ. of Buenos Aires; M.C.P., Harvard Univ.; Ph.D., Univ. of Cal. at Berkeley.

Fisher, William G., *Assoc. Prof., Engl.*: B.A., Vanderbilt Univ.; M.A., Ph.D., Univ. of Penn.

Fletcher, David, *Asst. Prof., Middle & H.S. Ed.*: B.A., Appalachian State Univ.; M.A., Univ. of Michigan; Ph.D., New York Univ.

Font-Navarrete, David, *Asst. Prof., Mus., Multimed., Theatre, and Dance*: B.A., Antioch Coll.; M.A., Univ. of Maryland, Coll. Park; Ph.D., York Univ.

Ford, Gary, *Asst. Prof., Afr. Stud.*: B.A., Harvard Univ.; J.D., Columbia Univ.; M.F.A., The New School; Ph.D., Univ. of Maryland.

Ford, Madeline, *Asst. Prof., Libr.*: B.B.A, Baruch Coll.; M.L.S, Rutgers Univ.; M.S. Ed., Baruch Coll.

Fortunato-Tavares, Talita, *Asst. Prof., Speech-Lang.-Hearing Sci.*: B.A., Univ. de São Paulo, Brazil; M.Phil, Ph.D., CUNY Grad. Cent.; Ph.D., Sch. of Medicine, Univ. de São Paulo, Brazil.

Fox-Williams, Brittany, *Asst. Prof., Soc.*: B.S., Cheyney Univ. of Pennsylvania; M.P.A., M.A., M.Phil., Ph.D., Columbia Univ.

Fulakeza, Steven, *Lect., Computer Sci.*: B.S., M.S., Lehman Coll.

Fusco, Lisa, *Lect., Health Sci.*: B.A., Hofstra Univ.; M.A., Adelphi Univ.; Ed.D., Columbia Univ.

Gafur, Bibi. N., Sr. *Coll. Lab Tech., Chem.*: B.S., Lehman Coll.; M.S., City Coll. of New York.

Gallego-Delgado, Julio, *Asst. Prof., Biol. Sci.*: B.S., Complutense Univ., Madrid; M.S., National Univ. of Distance Education; Ph.D., Autonoma Univ. of Madrid.

Galvez, Alyshia, *Prof., Lat. Amer. & Latino Stud.*: B.A., Columbia Univ.; M.A., Ph.D., New York Univ.

Ganjan, Iraj, *Prof., Chem.*: Pharm.D., Tehran Univ.; M.S., Ph.D., Columbia Univ.

Garanin, Dmitry, *Prof., Phys. & Astron.*: B.S., M.S., Moscow Inst. of Physics & Tech., USSR; Ph.D., Moscow State Univ., USSR.

Garcia, Melissa, *Sub-Asst. Prof., Early Childh. & Childh. Ed.*: B.A., Queens Coll.; M.A., Hunter Coll.; M.A., Ph.D., Univ. of Puerto Rico.

Gargalas, Vassilios, *Assoc. Prof., Econ. & Bus.*: B.Sc., Athens Univ., Greece; M.Phil., Ph.D., New York Univ.

George-Moses, Crystal, *Lect., Soc. Wk.*: B.S., Syracuse Univ.; M.S.W., Fordham Univ.; M.Phil., CUNY Grad. Cent.

Georges, Catherine Alicia, *Prof., Nurs.*: B.S.N., Seton Hall Univ.; M.A., New York Univ.; Ed.D., Univ. of Vermont.

Gerry, Christopher C., *Prof., Phys. & Astron.*: B.A., M.S., Univ. of Maine; Ph.D., State Univ. of New York at Albany.

Ghezso, Marta, *Prof., Mus., Multimed., Theatre, and Dance*: Ph.D., CUNY Grad. Cent.

Girgis, Habib, *Sen. Coll. Lab. Tech., Chem.*: B.S., Elmina Univ.

Gningue, Serigne M., Prof., Middle & H.S. Ed.: B.S., Univ. of Dakar; M.A., Lehman Coll.; M.Phil., Ph.D., Columbia Univ.

Gonzales, Ulises, Lect., Journalism and Med. Stud.: B.A., Univ. of Lima; M.A., Lehman Coll.

Gonzales-Corzo, Mario, Prof., Econ. & Bus.: B.A., M.A., Ph.D., Rutgers Univ.

Gonzalez, Tailisha, Sub. Lect., Health Sci.: B.A., Columbia Univ.; M.S., The New School; M.P.H., Hunter Coll.

Goral, Mira, Prof., Speech-Lang.-Hearing Sci.: B.A., Tel-Aviv Univ.; M.A., Queens Coll.; Ph.D., CUNY Grad. Cent.

Gordon, Claudette V., Asst. Prof., Nurs.: B.S.N., M.S., Lehman Coll.; Ed.D., Univ. of Phoenix.

Gorokhovich, Yuri, Assoc. Prof., Earth, Env. & Geo. Spat. Sci.: M.S., Odessa State Univ.; M.A., Ph.D., CUNY Grad. Cent.

Gottlieb, Barbara, Prof., Cslg., Ldrshp., Lit., & Sp. Ed.: B.A., Univ. of Pittsburgh; M.Ed., Lesley Coll.; Ed.D., Northern Illinois Univ.

Graulau, Jeannette, Assoc. Prof., Pol. Sci.: B.A., Univ. of Puerto Rico; Ph.D., Syracuse Univ.

Greenberg, Joy, Prof., Soc. Wk.: B.A., Tufts Univ.; M.S.W., M.B.A., New York Univ.; Ph.D., Columbia Univ.

Guerrero-Berroa, Elizabeth, Asst. Prof., Psych.: B.A., Lehman Coll.; M.A., Queens Coll.; Ph.D., CUNY Grad. Cent.

Gulla, Amanda N., Assoc. Prof., Middle & H.S. Ed.: B.A., M.A., Ph.D., New York Univ.

Haghighat, Elhum, Prof., Pol. Sci.: B.A., Rutgers Univ.; M.A., Univ. of Texas; Ph.D., Univ. of Maryland.

Handel, Michael, Prof., Math.: B.A., Brandeis Univ.; Ph.D., Univ. of Cal. at Berkeley.

Hankin, Sheila, Asst. Prof., Nurs.: B.A., Queens Coll.; B.S.N., Molloy Coll.; M.A., Adelphi Univ.; M.S.N., Pace Univ.; Ed.D., Teachers Coll., Columbia Univ.

Happaney, Keith R., Asst. Prof., Psych.: B.A., Lehman Coll.; M.A., Ph.D., Univ. of Cal. at Santa Barbara.

Harcourt-Smith, William E., Assoc. Prof., Anthro.: B.Sc., Kings Coll., London; M.Sc., Ph.D., Univ. Coll. London.

Harushimana, Immaculee, Assoc. Prof., Middle & H.S. Ed.: B.A., Univ. of Burundi; M.A., Ph.D., New York Univ.

Hattori, Tomohisa, Asst. Prof., Pol. Sci.: B.A., Sarah Lawrence Coll.; M.A.L.D., Fletcher Sch. of Law & Dipl., Tufts Univ.; Ph.D., Yale Univ.

Haxhovia, Tanja, Lect., Math.: M.Phil., CUNY Grad. Cent.

Healy-Sharbaugh, Catherine, Clin. Asst. Prof., Nurs.: B.S.N., Villanova Univ.; M.S.N., Univ. of Cal. at Los Angeles; D.N.P., Villanova Univ.

Henning, Jack, Lect., Biol. Sci.: B.S., Univ. of Missouri-Col., M.S., Univ. of Capetown, M.A., Lehman Coll., M.Phil., Ph.D., CUNY Grad. Cent.

Hercules, Kezia, Sub. Lect., Health Sci.: B.A., M.P.H., Long Island Univ.; Ph.D., (c), Walden Univ.

Hernandez, Jessica, Inst., Libr.: B.A., Lehman Coll.; M.L.S., Long Island Univ.

Hernandez Acevedo, Brenda, Asst. Prof., Nurs.: A.N., B.S.N., Pace Univ.; M.S.N., Lehman Coll.; Ph.D., Capella Univ.

Hood, Julia, Lect., Cslg., Ldrshp., Lit., & Sp. Ed.: B.S., Nyack Coll.; M.S., The Coll. of New Rochelle; Ph.D., Capella Univ.

Holtzman, Benjamin, Asst. Prof., Hist.: M.A., Ph.D., Brown Univ.

Hsu, Sophia, Asst. Prof., Engl.: B.A., Univ. of Cal.; M.A., Ph.D., Rice Univ.

Hurley, Dene, Prof., Econ. & Bus.: B.S., City Univ. of London; M.S., Univ. of Bath; Ph.D., Northeastern Univ.

Hyangmi, Kim, Asst. Prof., Health Sci.: Ph.D., Indiana Univ.

Hyman, David, Assoc. Prof., Engl.: B.A., Vassar Coll.; M.A., Manhattanville Coll.; Ph.D., CUNY Grad. Cent.

Ihde, Thomas, Prof., Langs. & Lits.: B.A., St. Mary's Univ., Texas; M. Phil., Ph.D., Univ. of Dublin (Trinity Coll.); Dip., Univ. of Ireland, Galway.

Jayadeva, Rajeev, Inst. Lib.: M.A., M.L.S., Queens Coll.

Jimenez, Elpidio, Sr. Coll. Lab. Tech., Phys. & Astron.: A.S., Broward Comm. Coll.; B.S., M.S., Lehman Coll.

Jitianu, Andrei, Prof., Chem.: B.Sc., M.Sc., Ph.D., Univ. of Bucharest.

Johnson, Kevin, Lect., Math.: M.A., Lehman Coll.

Johnson, Matthew, Assoc. Prof., Computer Sci.: B.A., Lawrence Univ.; B.S., M.S., Columbia Univ.; Ph.D., CUNY Grad. Cent.

Jones, Joi, Coll. Lab. Tech., Middle & H.S. Ed.: B.A., Univ. of Alabama at Tuscaloosa; M.A., Univ. of Alabama at Birmingham.

Jordan, Sharon, Assoc. Prof., Art: B.A., Boston Univ.; Ph.D., CUNY Grad. Cent.

Joseph, Mary, Asst. Prof., Nurs.: B.S.N., Arizona State Univ.; M.S.N., Hunter Coll.; Ph.D., CUNY Grad. Cent.

Jung, Gwang, Assoc. Prof., Computer Sci.: B.E., M.E., Kyungpook Nat. Univ.; Ph.D., Univ. of Louisiana—Lafayette.

Kabat, Daniel, *Prof., Phys. & Astron.*: B.S., Cal. Polytechnic State Univ.; Ph.D., Mass. Inst. of Tech.

Kahn, Jessica, *Prof., Soc. Wk.*: B.A., Davidson Coll.; M.S.W., Washington Univ.; Ph.D., Columbia Univ. School of Soc. Wk.

Kamen-Friedman, Michele, *Asst. Prof., Econ. & Bus.*: B.A., Queens Coll.; M.B.A., St. John's Univ.

Kannan, Arianevani, *Asst. Prof., Engl.*: B.A., Barnard Coll.; M.A., State Univ. of Col.; Ph.D., Syracuse Univ.

Karabali, Dimitra, *Prof., Phys. & Astron.*: B.S., Univ. of Athens, Greece; Ph.D., Yale Univ.

Karp, Leon, *Prof., Math.*: B.A., Yeshiva Univ.; M.S., Ph.D., New York Univ.

Kayaalp, Orhan, *Prof., Econ. & Bus.*: B.A., Ankara Univ.; M.B.A., Fairleigh Dickinson Univ.; M.A., Hunter Coll.; M.Phil., Ph.D., CUNY Grad. Cent.

Kennelly, Edward, *Prof., Biol. Sci.*: B.A., Colby Coll.; Ph.D., Washington Univ.

Kim, Hyangmi, *Asst. Prof., Health Sci.*: B.S., Kookmin Univ.—Korea; M.S., Ph.D., Indiana Univ.—Bloomington.

Kim, Nari, *Asst. Prof., Econ. & Bus.*: B.B.A., Kyungbook National Univ.; M.A., State Univ. of New York at Albany; Ph.D., Washington State Univ.

Kincaid, Dwight T., *Prof., Biol. Sci.*: B.A., Pfeiffer Coll.; M.A., Ph.D., Wake Forest Univ.

King, Jennifer, *Lect., Libr.*: B.S., State Univ. of New York at Geneseo; M.L.J., Queens Coll.

Kluger, Alan, *Prof., Psych.*: B.A., M.A., Queens Coll.; Ph.D., CUNY Grad. Cent.

Kolb, Patricia, *Prof., Soc. Wk.*: B.A., Butler Univ.; M.S.S.A., Case Western Reserve Univ.; M.A., Ph.D., New School for Soc. Research.

Kurtzman, Thomas, *Assoc. Prof., Chem.*: B.A., Univ. of Cal. at Santa Cruz; Ph.D., Stanford Univ.

Lado, Beatriz, *Assoc. Prof., Langs. & Lits.*: Licenciatura, Univ. of Valencia—Spain; M.A., Northwestern State Univ.; M.A., Louisiana State Univ.; M.S., Ph.D., Georgetown Univ.

Lahijani, Richard, *Asst. Prof., Econ. & Bus.*: B.A., Queens Coll.; CPA, CGMA, MST, Baruch Coll.

Laird, Jennifer, *Asst. Prof., Soc.*: B.S., Univ. of Southern Cal.; M.A., Ph.D., Univ. of Washington.

Lakic, Nikola, *Prof., Math.*: B.S., Univ. of Belgrade; Ph.D., CUNY Grad. Cent.

Lancaster, Gwendolyn, *Asst. Prof., Nurs.*: A.A.S., Pace Univ.; B.S.N., M.S.N., Ed.D., Univ. of Phoenix.

Larimer, Amy, *Assoc. Prof., Mus., Multimed., Theatre, and Dance*: B.A., Connecticut Coll.; M.F.A., Univ. of Wisc. at Milwaukee.

Lee, James, Sr., *Coll. Lab. Tech., Biol. Sci.*: B.S., Univ. of Cal. at Riverside; M.P.M., Simon Fraser Univ.

LeGall, Dina, *Assoc. Prof., Hist.*: B.A., Tel Aviv Univ.; M.A., Ph.D., Princeton Univ.

Lehner-Quam, Alison, *Instr., Lib.*: B.A., Univ. of Washington; M.L.S., Columbia Univ.

Leung, Irene S., *Prof., Earth, Env. Geo. Spat. Sci.*: B.A., Univ. of Hong Kong; M.A., Ohio State Univ.; Ph.D., Univ. of Cal. at Berkeley.

Levy, Teresita, *Assoc. Prof., Lat. Amer. & Latino Stud.*: B.A., Rollins Coll.; M.S., Long Island Univ.; M.Phil., Ph.D., CUNY Grad. Cent.

Lizardi, Humberto, *Assoc. Prof., Psych.*: B.A., State Univ. of New York at Binghamton; M.A., Ph.D., State Univ. of New York at Stony Brook.

Lopez, Gustavo E., *Prof., Chem.*: B.S., Univ. of Humacao; Ph.D., Univ. of Mass. at Amherst.

Loscocco, Paula, *Prof., Engl.*: B.A., Smith Coll.; Ph.D., Boston Coll.

Luerssen, Anna, *Asst. Prof., Psych.*: B.A., New York Univ.; M.A., Ph.D., Univ. of Cal. at Berkeley.

Lundy, Theresa, *Lect., Nurs.*: B.S., M.S., Lehman Coll.

Maantay, Juliana, *Prof., Earth, Env. Geo. Spat. Sci.*: B.S., Cornell Univ.; M.U.P., New York Univ.; M.A., Hunter Coll.; M. Phil., Ph.D., Rutgers Univ.

Machado, Elia, *Assoc. Prof., Earth, Env. & Geo. Spat. Sci.*: B.S., M.S., Univ. of Granada, Spain; M.A., Ph.D., Clark Univ.

MacKenzie, Jennifer, *Lect., Engl.*: B.A., Wesleyan Univ.; M.F.A., Univ. of Iowa.

Magaldi, Danielle, *Assoc. Prof., Cslg., Ldrshp., Lit., & Sp. Ed.*: B.S., Quinnipiac Univ.; M.S., Ph.D., Fordham Univ.

Mahon, James, *Prof., Philos.*: B.A., Trinity Coll., Dublin; M.Phil., Univ. of Cambridge; Ph.D., Duke Univ.

Maldonado, Sandra, *Asst. Prof., Nurs.*: B.S., Hunter Coll., B.N., SUNY Downstate, M.N., Hunter Coll., Post-Master Cert., Rutgers Univ., Post-Master Nurse Educator, Post-Master Family Nurse Practitioner, Coll. of Mt. Saint Vincent, Ed.D., Walden Univ.

Mallikaratchy, Prabodhika, *Asst. Prof., Chem.*: M.S., Univ. of Louisiana at Monroe; Ph.D., Univ. of Florida.

Maney, J. Bret, *Asst. Prof., Engl.*: A.B., Harvard Coll.; M.A., Univ. of Paris; M.A., Ph.D., Univ. of Penn.

Manier, David, *Assoc. Prof., Psych.*: B.A., Univ. of Chicago; M. Div., Harvard Univ.; Ph.D., New School for Soc. Research.

Marianetti, Marie, *Assoc. Prof., Hist.*: B.A., M.A., Cal. State Univ. at Los Angeles; M.A., Ph.D., Univ. of Southern Cal.

Markens, Susan, *Assoc. Prof., Soc.*: B.A., Brandeis Univ.; Ph.D., Univ. of Cal. at Los Angeles.

Markey, Eileen, *Asst. Prof., Journalism and Med. Stud.*: B.A., Fordham Univ.; M.S., Columbia Grad. School of Journalism.

Marshall, Anne Marie, *Assoc. Prof., Early Childh. & Childh. Ed.*: B.A., M.S., Ph.D., Univ. of Wisc.

Martín, Óscar, *Assoc. Prof., Langs. & Lits.*: B.A., Univ. de Deusto-Bilbao; M.A., Ph.D., Univ. of Wisc.

Martinez, Herminio, *Prof., Middle & H.S. Ed.*: B.A., Manhattan Coll.; M.S., St. John's Univ.; Ph.D., CUNY Grad. Cent.

Maybee, Julie, *Prof., Philos.*: B.J., B.A., Carleton Univ.; Ph.D., Cornell Univ.

Mazza, Carl, *Prof., Soc. Wk.*: B.A., Dowling Coll.; M.S.W., D.S.W., Yeshiva Univ.

McCabe, Jennifer, *Asst. Prof., Mus., Multimed., Theatre, and Dance*: B.S., State Univ. of New York at Oneonta; M.F.A., The New School.

McCarthy, Sean, *Assoc. Prof., Art*: B.F.A., Univ. of Texas at Austin; M.F.A., Yale Univ.

McDonald, John P., *Assoc. Prof., Psych.*: B.S., Rutgers Univ.; M.A., Seton Hall Univ.; Ph.D., State Univ. of New York at Stony Brook.

McElligott, Joseph, *Lect., Eng.*: B.A., M.A., Lehman Coll.

McGovern, Justine, *Assoc. Prof., Soc. Wk.*: B.A., Yale Univ.; M.A., New York Univ.; M.S.W., Ph.D., New York Univ., Sch. of Social Work.

McGregor, Donna, *Asst. Prof., Chem.*: B.A., Hunter Coll.; Ph.D., CUNY Grad. Cent. and Hunter Coll.

McKenna, Christine, *Lect., Journalism and Med. Stud.*: B.A., Univ. of Cal. at Berkeley; M.S., Columbia Grad. School of Journalism.

McNamee, Abigail S., *Prof., Early Childh. & Childh. Ed.*: B.A., M.Ed., Westminster Coll.; M.S., M. Phil., Ph.D., CUNY Grad. Cent.; Ed.D., Univ. of Pittsburgh.

McNeil, Cameron L., *Assoc. Prof., Anthro.*: A.B., Occidental Coll.; M.A., Univ. of Conn.; Ph.D., CUNY Grad. Cent.

Mifflin, Margot, *Prof., Engl.*: B.A., Occidental Coll.; M.A., New York Univ.

Mills, Pamela, *Prof., Chem.*: B.S., George Washington Univ.; Ph.D., Univ. of Wisc.—Madison.

Mohorcich, Joseph, *Asst. Prof., Pol. Sci.*: B.A., Occidental Coll.; M.A., Ph.D., Johns Hopkins Univ.

Molina-Velez, Kasielis, *Coll. Lab. Tech., Biol. Sci.*: B.S., Univ. of Puerto Rico; M.S.: Univ. of Illinois Urbana-Champaign

Molnar, Allan, *Lect., Mus., Multimed., Theatre, and Dance*: B.A., Univ. of Mary—Bismarck.

Monk, Germaine, *Asst. Prof., Soc. Wk.*: B.A., Rutgers Univ.; M.S.W., Temple Univ.; M.A.Th., LaSalle Univ.; M.A., Ph.D., Rutgers Univ.

Montaño, Francisco, *Asst. Prof., Lang. & Lit.*: B.A., Princeton Univ.; M.A., Ph.D., Indiana Univ.

Morales-Alexander, Yasmin, *Asst. Prof., Early Childh. & Childh. Ed.*: B.A., M.S.Ed., Lehman Coll.; Ed.D., Teachers Coll., Columbia Univ.

Moran, Madeline H., *Prof., Soc.*: B.A., Barnard Coll.; M.A., Ph.D., Fordham Univ.

Morell, Zoila, *Assoc. Prof., Early Childh. & Childh. Ed.*: B.A., Nyack Coll.; M.S.W., Fordham Univ.; Ph.D., CUNY Grad. Cent.

Morgan, Brian, *Sr. Coll. Lab. Tech., Earth, Env. & Geo. Spat. Sci.*: B.A., Lehman Coll.

Morkoski, Molly, *Assoc. Prof., Mus., Multimed., Theatre, and Dance*: B.A., Univ. of North Carolina; M.A., Indiana Univ.; Ph.D., State Univ. of New York at Stony Brook.

Moy, Olivia, *Asst. Prof., Engl.*: B.A., Princeton Univ.; M.A., M.Phil., Ph.D., Columbia Univ.

Munch, Janet Butler, *Assoc. Prof., Libr.*: B.A., Mercy Coll.; M.L.S., Pratt Inst.; D.L.S., Columbia Univ.

Munoz, Manuel, *Lect., Soc. Wk.*: M.S.W., Hunter Coll.

Muntzel, Martin, *Prof., Biol. Sci.*: B.S., Lewis & Clark Coll.; M.A., Ph.D., Oregon Health Sci. Univ.

Murphy, Brian, *Assoc. Prof., Computer Sci.*: B.S., M.S., Lehman Coll.

Murrell, Anthony, *Lect., Econ., & Bus.*: B.S., Lehman Coll.; M.B.A., Univ. of Phoenix; C.P.A., New York State

Nadeem, Shehzad, *Assoc. Prof., Soc.*: B.A., James Madison Univ.; Ph.D., Univ. of Cal. at San Diego

Nathanson, Melvyn B., *Prof., Math.*: B.A., Univ. of Penn.; M.A., Ph.D., Univ. of Rochester

Navarro, Alberto, *Lect., SEEK Advisement and Counsel.*: A.A., New York City Com. Coll.; B.A., M.A., City Coll. of New York; M.S., Lehman Coll.; Ph.D., New York Univ.

Neumayer, Christine L., *Lect., Speech-Lang.-Hearing Sci.*: B.A., M.A., Lehman Coll.

Ngo-Ngijol Banoum, Bertrade B., *Assoc. Prof., Afr. Stud.*: B.A., Univ. of Yaounde—Cameroon; M.Litt., Univ. of Edinburgh—Scotland; Ph.D., Univ. of Essex—England.

Noueihed, Salah, *Chief Coll. Lab. Tech., Anthro.*: B.A., Lehman Coll.

Nunez-Torres, Alexander, *Asst. Prof., Econ. & Bus.*: B.S., Santo Domingo Inst. of Tech; Ph.D., Univ. of Puerto Rico.

Nurse-Clarke, Natasha, *Asst. Prof., Nurs.*: B.S., Hunter Coll.; M.S., SUNY Downstate.

Oberlin, Douglas, *Asst. Prof., Health Sci.*: B.S., M.S., Univ. of Missouri; Ph.D., Univ. of North Carolina, Postdoc, Icahn School of Medicine.

O'Boy, Deirdre, *Lect., Eng.*: B.A., Pace Univ.; M.A., Fordham Univ.

O'Connor, Naphtali, *Assoc. Prof., Chem.*: B.S., State Univ. of New York at Stony Brook; Ph.D., Univ. of Cal.

O'Dowd, Matthew, *Assoc. Prof., Phys. & Astron.*: B.A., Ph.D., Univ. of Melbourne.

O'Hanlon, Thomas, *Assoc. Prof., Journalism and Med. Stud.*: B.A., Fordham Univ.; M.F.A., Hunter Coll.

O'Neil, Collin, *Asst. Prof., Philos.*: B.A., Luther Coll.; Ph.D., Univ. of Cal. at Berkeley.

Oh, Hyeyoung, *Asst. Prof., Soc.*: B.A., Princeton Univ.; M.A., Ph.D., Univ. of Cal. at Los Angeles.

Ohmer, Sarah, *Asst. Prof., Lat. Amer. & Latino Stud.*: Ph.D., Univ. of Pittsburgh.

O'Neil, Collin, *Asst. Prof., Philos.*: B.A., Luther Coll.; Ph.D., Univ. of Cal. at Los Angeles.

Owen, Megan, *Asst. Prof., Math.*: B.S., Queens's Univ.; M.S., Ph.D., Cornell Univ.

Paek, Hunki, *Chief Coll. Lab. Tech., Biol. Sci.*: B.A., Korea Univ.; M.S., Ph.D., Albert Einstein Coll. of Medicine.

Pan, Victor, *Dist. Prof., Computer Sci.*: Ph.D., Moscow State Univ. (Russia)

Pant, Hari, *Assoc. Prof., Earth, Env. & Geo. Spat. Sci.*: B.S., Tribhuvan Univ. (Nepal); M.S., Univ. of Aberdeen (Scotland); Ph.D., Dalhousie Univ. (Canada).

Papanikolaou, Nikolaos, *Assoc. Prof., Econ., & Bus.*: B.S., Salem State Coll.; M.A., City Coll.; M.Phil., Ph.D., New School for Social Research.

Parris, LaRose, *Assoc. Prof., Afr. Stud.*: B.A., Washington State Univ.; M.A., City Coll. of the City Univ. of New York; Ph.D., CUNY Grad Cent.

Paul-Cavaretta, Anthony, *Coll. Lab. Tech., Mus., Multimed., Theatre, and Dance*: B.F.A., LIU Post; M.F.A., Purdue Univ.

Payán Martín, Juan Jesús, *Asst. Prof., Langs. & Lits.*: B.A., M.A., Ph.D., Univ. Cádiz, Spain; Ph.D., Univ. of Cal. at Los Angeles.

Peach, Roger, *Asst. Prof., Middle & H.S. Ed.*: B.A., The Univ. of London; M.A., The Univ. of Auckland; Ph.D., CUNY Grad. Cent.

Petkov, Rossen, *Assoc. Prof., Eco. & Bus.*: B.A., Univ. of Rochester; M.P.A., Univ. of Texas at Austin; Ph.D., Univ. of National and World Economy.

Pettipiece, Deirdre, *Prof., Engl.*: B.A., Cal. State Univ. at San Bernardino; M.A., Cal. State Univ. at Pomona; Ph.D., Arizona State Univ.—Tempe.

Phillips, Mary, *Asst. Prof., Afr. Stud.*: B.S., Michigan State Univ.; M.A., The Ohio State Univ.; Ph.D., Michigan State Univ.

Phillips, Ruby, S.C., *Asst. Prof., Psych.*: B.A., Pomona Coll.; M.A., Ph.D., Univ. of Ill.

Pinhasi-Vittorio, Limor, *Assoc. Prof., Cslg., Ldrshp., Lit., & Sp. Ed.*: M.A., New York Univ.; Ph.D., Hofstra Univ.

Pitts, Wesley, *Assoc. Prof., Middle & H.S. Ed.*: B.A., M.A., City Coll. of New York; M.Phil., Ph.D., CUNY Grad. Cent.

Prince, Penny, *Assoc. Prof., Mus., Multimed., Theatre, and Dance*: B.M., M.M., Manhattan School of Mus.; Ph.D., New York Univ.

Prohaska, Vincent, *Prof., Psych.*: B.S., Adelphi Univ.; Ph.D., Univ. of Chicago.

Qafleshi, Darina, *Chief Coll. Lab. Tech., Mus., Multimed., Theatre, and Dance*: B.A., Academy of Arts, Tirana, Albania; M.A.T., Lehman Coll.

Qian, Gaoyin, *Prof., Cslg., Ldrshp., Lit., & Sp. Ed.*: B.A., East China Normal Univ.; M.A., Shanghai International Studies Univ.; M.S.Ed., Southwest Missouri Univ.; Ph.D., Univ. of Georgia.

Quinlan, Rena, *Lect., Biol. Sci.*: B.A., M.A., Lehman Coll., Ph.D., CUNY Grad. Cent.

Quiñones, Joseph, *Lect., Soc. Wk.*: B.A., Lehman Coll.; M.S.W., Fordham Univ.; ABD, Adelphi Univ.

Raaum, Ryan, *Assoc. Prof., Anthro.*: B.S., Univ. of Calgary; M.A., M.Phil., Ph.D., New York Univ.

Rachlin, Joseph W., *Prof., Biol. Sci.*: B.S., City Coll. of New York; M.S., Ph.D., New York Univ.

Ramirez Rojas, Marco, *Asst. Prof., Langs. & Lits.*: B.A., Univ. Javeriana, Bogotá; Ph.D., Univ. of Ottawa.

Redenti, Stephen, *Prof., Biol. Sci.*: B.S., Southern Connecticut State Univ.; M.A., Ph.D., Hunter Coll.

Reid, Anne, *Assoc. Prof., Psych.*: B.S., Univ. of Toronto; M.A., Ph.D., CUNY Grad. Cent.

Renique, Jose Luis, *Prof., Hist.*: B.A., Univ. Catolica del Peru; Ph.D., Columbia Univ.

Renshon, Stanley A., *Prof., Pol. Sci.*: B.A., Rutgers Univ.; M.A., American Univ.; Ph.D., Univ. of Pennsylvania.

Rice, Anne, *Assoc. Prof., Afr. Stud.*: B.A., Smith Coll.; M.A., Lehman Coll.; Ph.D., CUNY Grad. Cent.

Ricourt, Milagros, *Prof., Lat. Amer. & Latino Stud.*: B.A., Univ. Autonoma de Santo Domingo; M.A., Univ. of Florida; Ph.D., CUNY Grad. Cent.

Rivera-McCutchen, Rosa, *Assoc. Prof., Cslg., Ldrshp., Lit., & Sp. Ed.*: B.A., M.A., Univ. of Rochester; Ph.D., New York Univ.

Roberts, Laura, *Assoc. Prof., Cslg., Ldrshp., Lit., & Sp. Ed.*: B.S., Indiana Univ. of Penn.; M.S., Baruch Coll.; M.S., Mercy Coll.; Ph.D., Univ. of Mich.

Robertson, Andrew W., *Assoc. Prof., Hist.*: B.A., Franklin & Marshall Coll.; Ph.D., Oxford Univ.

Robinson, Ivreen, *Clin. Asst. Prof., Nurs.*: A.D., Univ. of West Indies; B.S., M.S., Coll. of New Rochelle; Ph.D., Walden Univ.

Rodriguez, Ada, *Lect., Econ. & Bus.*: B.S., Lehman Coll.; M.B.A., Columbia Univ.

Rofrano, Frances, *Assoc. Prof., Early Childh. & Childh. Ed.*: B.S., Seton Hall Univ.; M.S. Ed., State Univ. of New York at New Paltz; Ed.D., Teachers Coll., Columbia Univ.

Rogan, Mary, *Prof., Econ. & Bus.*: B.S., Lehman Coll.; J.D., Antioch Sch. of Law.

Roh, Chul-Young, *Assoc. Prof., Health Sci.*: B.A., M.A., InHa Univ.—Korea; M.P.A., New York Univ.; Ph.D., Univ. of Colorado.

Roldos Prosser, Maria Isabel, *Assoc. Prof., Health Sci.*: B.A., Univ. of San Francisco of Quito; M.P.A., New York Univ.; M.A., Georgia State Univ.; Dr.Ph, Univ. of Georgia.

Rosenberg, Lynn, *Lect., Speech-Lang.-Hearing Sci.*: B.S., M.S., Buffalo State Coll.

Ross, Alexandra Lawrence, *Assoc. Prof., Early Childh. & Childh. Ed.*: B.A., Skidmore Coll.; M.A., M.Ed., Ed.D., Teachers Coll., Columbia Univ.

Ross, Marshall, *Lect., Econ. & Bus.*: B.S., Hunter Coll.; M.B.A., Long Island Univ.; C.P.A., New York State.

Rothstein, Anne L., *Dir. of School/Coll. Collaboratives and Prof., Early Childh. & Childh. Ed.*: B.S., Brooklyn Coll.; M.A., Ed.D., Teachers Coll., Columbia Univ.

Ruiz, Philip Anthony, *Lect., Journalism and Med. Stud.*: B.A., Fordham Univ.; Cert., Film Prod., New York Univ.; M.A., New York Univ.

Rupp, Stephanie, *Assoc. Prof., Anthro.*: B.A., Dartmouth Coll.; M.Ed., Harvard Univ.; M.Phil., Ph.D., Yale Univ.

Saen-de-Casas, Maria del Carmen, *Assoc. Prof., Langs. & Lits.*: B.A., Univ. Seville, Spain; M.A., Univ. of Michigan; Ph.D., CUNY Grad. Cent.

Sailor, Kevin, *Prof., Psych.*: B.A., Univ. of Cal. at Berkeley; M.A., Ph.D., Univ. of Illinois.

Saint-Louis, Nicole, *Assoc. Prof., Soc. Wk.*: B.S., Univ. of Scranton; M.S.W., D.S.W., Univ. of Penn.

Salamandra, Christa, *Prof., Anthro.*: B.A., M.A., New York Univ.; D. Phil., Univ. of Oxford.

Samuel, Lalitha, *Assoc. Prof., Health Sci.*: B.S., Delhi Univ.; M.S., Ph.D., G.B., Pant Univ.

Sanders, Deborah, *Lect., Econ. & Bus.*: B.S., Univ. of Delaware; M.B.A., Columbia Univ.

Sanford, Victoria, *Prof., Anthro.*: B.A., Cal. State Univ. at Sacramento; M.A., San Fran. State Univ.; M.A., Ph.D., Stanford Univ.

Sankaran, Renuka, *Assoc. Prof., Biol. Sci.*: B.S., M.S., Univ. of Madras, India; M.S., Ph.D., Southern Illinois Univ.

Sauane, Moira, *Assoc. Prof., Biol. Sci.*: M.S., Ph.D., National Univ. of Bueno Aires.

Scheetz, Linda, *Assoc. Prof., Nurs.*: B.S.N., Trenton State Coll.; M.A., New York Univ.; Ed.D., Columbia Univ., Teachers Coll.

Schlesinger, Kenneth, *Chief Librarian & Prof.*: B.A., Univ. of Cal. at Berkeley; M.F.A., Yale Univ.; M.L.S., Pratt Inst.

Schmidt, Tyler, *Assoc. Prof., Engl.*: B.S., Univ. of Wisc. at Madison; M.A., Teachers Coll., Columbia Univ.; Ph.D., CUNY Grad. Cent.

Schneiderman, Robert, *Assoc. Prof., Math.*: B.A., City Coll. of New York; Ph.D., Univ. of Cal. at Berkeley.

Schoenfeld, Brad, *Assoc. Prof., Health Sci.*: Ph.D., Rocky Mountain Univ.

Schwitek, David, *Asst. Prof., Art*: B.A., State Univ. of New York at New Paltz; M.F.A., Parsons Sch. of Design.

Scott, Korto, *Asst. Prof., Nurs.*: B.S.N., Catholic Univ. of South Korea; M.A., New York Univ.

Seiger-Gardner, Liat, *Assoc. Prof., Speech-Lang.-Hearing Sci.*: B.A., Tel-Aviv Univ.; M.A., Queens Coll.; Ph.D., CUNY Grad. Cent.

Senreich, Evan, *Assoc. Prof., Soc. Wk.*: B.A., D.D.S., M.S.W., Ph.D., New York Univ.

Seplowin, Charles J., *Assoc. Prof., Art:* B.F.A., New Hampshire Univ.; M.F.A., Rhode Island Sch. of Design.

Sethi, Umrao, *Asst. Prof., Philos.:* B.A., Columbia Univ.; M.A., Ph.D., Univ. of Cal. at Berkeley.

Shreiber, Chanoch, *Prof., Econ. & Bus.:* LL.B., Hebrew Univ.—Israel; LL.M., Ph.D., Columbia Univ.

Sisselman, Amanda, *Asst. Prof., Soc. Wk.:* B.A., State Univ. of New York at Albany; M.S.W., Adelphi Univ.; Ph.D., State Univ. of New York at Albany.

Skolnik, Janet, *Lect., Art:* B.A., Brooklyn Coll.; M.F.A., Pratt Inst.

Sloan, Heather, *Assoc. Prof., Earth, Env. & Geo. Spat. Sci.:* B.S., State Univ. of New York at Albany; M.A., Univ. of Cal. at Santa Clara; Ph.D., Univ. of Paris.

Smith Gabig, Cheryl, *Assoc. Prof., Speech-Lang.-Hearing Sci.:* B.S., Miami Univ.; M.S., Emerson Coll.; Ph.D., Univ. of Connecticut.

Smith, Sunyata, *Lect., Middle & H.S. Ed.:* B.S., SUNY Old Westbury; M.S., Ph.D., Albert Einstein Coll. of Medicine; CUNY Grad. Cent.

Smith-Munson, Joye, *Asst. Prof., Middle and H.S. Ed.:* B.S., Univ. of North Carolina; M.A., Ed.D., Teachers Coll., Columbia Univ.

Sofianos, Eva, *Lect., Computer Sci.:* B.S., M.S., Lehman Coll.

Sormani, Christina, *Prof., Math.:* B.A., New York Univ.; Ph.D., Courant Inst. of Mathematical Sci.

Soto, Adelaide, *Lect., Libr.:* B.A., Lehman Coll.; M.L.I.S., Long Island Univ.

Spear, Thomas, *Prof., Langs. & Lits.:* B.A., Lawrence Univ.; M.A., Univ. of Cal. at Santa Barbara; Ph.D., New York Univ.

Spence, Naomi, *Assoc. Prof., Soc.:* B.A., Univ. of New Orleans; M.S., Ph.D., Florida State Univ.

Spencer, Robyn C., *Assoc. Prof., History:* B.A., State Univ. of New York at Binghamton; M.A., M.Phil., Ph.D., Columbia Univ.

Stein Smith, Sean, *Asst. Prof., Econ. & Bus.:* B.S., M.S., M.B.A., Fairleigh Dickinson Univ.; D.B.A., Capella Univ.

Stopler, Marina, *Lect., Health Sci.:* M.S., Teachers Coll., Columbia Univ.

Stuckart, Daniel, *Assoc. Prof., Middle & H.S. Ed.:* B.A., Univ. of Wisconsin; B.A., M.A., Ph.D., Univ. of South Florida.

Szabo, Zoltan, *Prof., Math.:* Ph.D., Szeged Univ.—Hungary.

Tauber, Linda, *Lect., Econ. & Bus.:* B.A., New York Univ.; M.B.A., Baruch Coll.; C.P.A., Texas.

Tegeder, Dannielle, *Assoc. Prof., Art:* B.F.A., State Univ. of New York at Purchase; M.F.A., Art Inst. of Chicago.

Tesoro, Mary Gay, *Asst. Prof., Nurs.:* A.A.S., Queensborough Comm. Coll.; B.A., M.S., Lehman Coll.

Tiryaki-Sonmez, Gul, *Prof., Health Sci.:* B.S., Gazi Univ.—Turkey; M.S., Oklahoma State Univ.; Ph.D., Univ. of New Mexico.

Tochika, Asako, *Lect., Langs. And Lits.:* B.A., Lehman Coll., M.A., Columbia Univ.

Totti, Xavier, *Lect., Lat. Amer. & Latino Stud.:* B.A., Univ. of Puerto Rico; M.A., Hunter Coll.; M.Phil., CUNY Grad. Cent.

Towery, Terry, *Assoc. Prof., Art:* B.S., Florida State Univ.; M.F.A., Univ. of Florida.

Valentine, Robert T., *Lect., History:* B.A., The Citadel; M.A., Fordham Univ.; Ph.D., Univ. of South Carolina.

Van Allen, Jennifer, *Asst. Prof., Cslg., Ldrshp., Lit., & Sp. Ed.:* B.S., M.Ed., Ed.D., Univ. of Central Florida.

Vanderbilt, Kym, *Lect., Early Childh. & Childh. Ed.:* B.S., Empire State, SUNY; M.S. City Coll. of New York.

Vann, Maurice, *Asst. Prof., Soc. Wk.:* B.A., M.A., Univ. of Baltimore; M.Phil., Ph.D., CUNY Grad. Cent.

Velasco-Whetsell, Martha, *Prof., Nurs.:* B.S.N., M.S., Ph.D., Univ. of South Carolina.

Vinjamuri, Mohan, *Assoc. Prof., Soc. Wk.:* B.S., Univ. of Virginia; M.A., Teachers Coll., Columbia Univ.; M.S.W., Hunter Coll. Sch. of Social Work; Ph.D., CUNY Grad. Cent.

Voge, Susan, *Assoc. Prof., Libr.:* B.A., Brooklyn Coll.; M.S.L.S., Columbia Univ.; M.B.A., Fordham Univ.

Walia, Dhipinder, *Lect., Engl.:* B.A., Queens Coll.; M.F.A., Adelphi Univ.

Warde, Bryan, *Assoc. Prof., Soc. Wk.:* B.S., York Coll.; M.S.W., Columbia Univ.; Ph.D., CUNY Grad. Cent.

Waring, Elin, *Prof., Soc.:* B.A., Swarthmore Coll.; M.A., Ph.D., Yale Univ.

Washington, Michele, *Lect., Early Childh. & Childh. Ed.:* B.S., Manhattanville Coll.; M.S., Lehman Coll.

Watson, James, *Asst. Prof., Libr.:* B.S., State Univ. of New York at Albany; M.S., Long Island Univ.; M.P.S., New York Univ.

Watson, Karl, *Chief. Coll. Lab. Tech., Mus., Multimed., Theatre, and Dance:* B.A., Univ. of Rhode Island; M.A.T., Lehman Coll.

Watson-Turner, Susan, *Assoc. Prof., Mus., Multimed., Theatre, and Dance*: B.F.A., Ohio Univ.; M.F.A., Columbia Univ.

West, Christina, *Sr. Coll. Lab. Tech., Biol. Sci.*: B.A., Lehman Coll.

White, Amy, *Sub. Lect., Health Sci.*: B.A., Brown Univ.; M.S., Harvard Univ.

White, Marisa, *Lect., Journalism and Med. Stud.*: B.A., Fordham Univ.; M.S., Coll. of New Rochelle.

Wilder, Esther, *Prof., Soc.*: B.A., Univ. of Mass. at Amherst; M.A., Ph.D., Brown Univ.

Williams-Gray, Brenda, *Assoc. Prof., Soc. Wk.*: B.S.W., Adelphi Univ.; M.S.W., Fordham Univ.; D.S.W., CUNY Grad. Cent.

Wills-Jackson, Celestial, *Asst. Prof., Early Childh. & Childh. Ed.*: B.S., SUNY at Old Westbury; M.S., Queens Coll.; Ph.D., Univ. of Central Florida.

Wooldridge, William, *Assoc. Prof., History*: B.A., Swarthmore Coll.; M.A., Univ. of Washington; Ph.D., Princeton Univ.

Wunder, Amanda, *Assoc. Prof., History*: B.A., Wesleyan Univ.; M.A., Ph.D., Princeton Univ.

Wurtzel, Eleanore, *Prof., Biol. Sci.*: B.S., Ph.D., State Univ. of New York at Stony Brook.

Wynne, Brian, *Doct. Lect., Math.*: B.A., Colgate Univ.; Ph.D., Wesleyan Univ.

Yates, Suzanne, *Assoc. Prof., Psych.*: B.A., State Univ. of New York at New Paltz; M.A., Ph.D., Univ. of Cal. at Santa Cruz.

Yavuz, Devrim, *Asst. Prof., Soc.*: B.S., Middle East Technical Univ., Ankara, Turkey; M.A., Ph.D., McGill Univ.—Montreal.

Yood, Jessica, *Assoc. Prof., Engl.*: B.A., Barnard Coll., Columbia Univ.; Ph.D., State Univ. of New York at Stony Brook.

Zack, Naomi, *Prof., Philos.*: B.A., New York Univ.; Ph.D., Columbia Univ.

Zakin, Andrea, *Assoc. Prof., Early Childh. & Childh. Ed.*: B.A., Earlham Coll.; M.A., Hunter Coll.

Zeinalian, Mahmoud, *Prof., Math.*: B.S., Sharif Univ. of Technology; Ph.D., CUNY Grad. Cent.

Zerzan, Barbara, *Lect., Soc. Wk.*: B.A., Empire State Coll.; M.S.W., Hunter Coll. School of Social Work; A.B.D., CUNY Grad. Cent.

Zheng, Zhi-Liang, *Prof., Biol. Sci.*: Ph.D., Ohio State Univ.; Postdoc., Univ. of Cal. at Riverside.

Zhong, Mingxian, *Asst. Prof., Comp. Sci.*: B.S., Wuhan Univ.; M.S., M.Phil., Ph.D., Columbia Univ.

Zhou, Liang, *Asst. Prof., Comp. Sci.*: B.S., Tsinghua Univ.; Ph.D., CUNY Grad. Cent.

Emeriti

Ackerman, Evelyn, *Prof. Emer., His.*: B.A., Radcliffe Coll.; M.A., Ph.D., Harvard Univ.

Allman, Eileen, *Assoc. Prof. Emer., Engl.*: B.A., Hunter Coll.; M.A., Ph.D., Syracuse Univ.

Bacarella, Flavia, *Prof. Emer., Art*: B.A., State Univ. of New York, Albany; M.A., New School for Soc. Research; M.F.A., Brooklyn Coll.

Backer, Barbara, *Prof. Emer., Nurs.*: B.S., Keuka Coll.; M.S., Univ. of Rochester; M.A., New York Univ.; D.S.W., CUNY Grad. Cent.

Bady, David M., *Assoc. Prof. Emer., Engl.*: B.A., Columbia Coll.; M.A., Ph.D., Columbia Univ.

Bailey, Nathalie, *Assoc. Prof. Emer., Engl.*: M.A., Hunter Coll.; Ph.D., CUNY Grad. Cent.

Bank, Stanley, *Prof. Emer., Secondary, Adult, and Business Ed.*: B.A., Clark Univ.; M.A., Ph.D., Columbia Univ.

Basile, Dominick V., *Prof., Emer., Biol. Sci.*: B.S., Manhattan Coll.; M.A., Ph.D., Columbia Univ.

Bastos, Maria L., *Prof. Emer., Rom. Lang.*: B.A., Escuela Normal, Buenos Aires; M.A., Univ. of Buenos Aires; Ph.D., Univ. of La Plata, Argentina.

Baumgarten, Reuben L., *Prof. Emer., Chem.*: B.S., The City Coll. of New York; M.S., Ph.D., Univ. of Michigan.

Beaton, Sarah, *Assoc. Prof. Emer., Nurs.*: B.S., Fairleigh Dickinson Univ.; M.A., Ph.D., New York Univ.

Berger, Charles, *Prof. Emer., Math & Computer Sci.*: B.A., Ph.D., Cornell Univ.

Bergman, Edward F., *Prof. Emer., Geol. & Geog.*: B.A., Univ. of Wisconsin; M.A., Ph.D., Univ. of Washington.

Bermel, Albert, *Prof. Emer., Speech & Theatre*: B.Sc., London School of Econ.

Beye, Charles R., *Dist. Prof. Emer., Langs. and Lits.*: B.A., State Univ. of Iowa; M.A., Ph.D., Harvard Univ.

Bitton-Jackson, Livia E., *Prof. Emer., Class., Orient., Germ., & Slav. Lang.*: B.A., Brooklyn Coll.; M.A., Ph.D., New York Univ.

Blanco, Walter, *Prof. Emer., Engl.*: B.A., Columbia Coll.; Ph.D., Harvard Univ.

Blecher, George, *Assoc. Prof. Emer., Engl.*: B.A., Harvard Univ.

Blot, Richard, *Assoc. Prof. Emer., Anthro.*: B.A., Ignatius Coll., Fordham Univ.; M.A., Ph.D., New School for Soc. Research.

Blum, Antoinette, *Prof. Emer., Langs. & Lit.*: B.A., Univ. of California at Berkeley; Ph.D., Yale Univ.

Boissevain, Ethel W., *Assoc. Prof. Emer., Anthro.*: B.A., Vassar Coll.; Ph.D., Univ. of Prague.

Borodkin, Thelma, *Assoc. Prof. Emer., Acad. Skills/SEEK*: B.A., Brooklyn Coll.; M.A., New York Univ.; Ph.D., Union Grad. Schl.

Bradley, A. Day, *Prof. Emer., Math. & Computer Sci.*: B.A., Penn. State Univ.; M.A., Teachers Coll., Columbia Univ.; Ph.D., Columbia Univ.

Bronstein, Arthur J., *Prof. Emer., Speech & Theatre*: B.A., The City Coll. of New York; M.A., Columbia Univ.; Ph.D., New York Univ.

Bronzaft, Arline L., *Prof. Emer., Psych.*: B.A., Hunter Coll.; M.A., Ph.D., Columbia Univ.

Bruni, James V., *Prof. Emer., Early Childh. & Childh. Ed.*: B.A., Columbia Coll.; M.A., Ed.D., Teachers Coll., Columbia Univ.

Bucchioni, Eugene, *Prof. Emer., Early Childh. & Elem. Ed.*: B.A., M.A., Queens Coll.; Ph.D., New School for Soc. Research.

Bullaro, Grace Russo, *Prof. Emer., Engl.*: B.A., City Coll. of New York; M.A., Ph.D., State Univ. of New York at Stony Brook.

Bush, Robert B., *Prof. Emer., Engl.*: A.B., Princeton Univ.; M.A., Columbia Univ.; Ph.D., Univ. of Iowa.

Carnicelli, Domenick D., *Prof. Emer., Engl.*: B.A., Brooklyn Coll.; M.A., Ph.D., Columbia Univ.

Castex, Graciela M., *Assoc. Prof. Emer., Soc. Wk.*: B.S.W., Florida International Univ.; M.S.W., Virginia Commonwealth Univ.; Ed.D., Columbia Univ.

Cavalchini, Mariella, *Assoc. Prof. Emer., Rom. Lang.*: Laurea di Dottore in Materie Letterarie, Univ. of Rome; Ph.D., New York Univ.

Cirace, John, *Prof. Emer., Econ. & Bus.*: B.A., Harvard Coll.; LL.B., Stanford Univ.; M.A., Ph.D., Columbia Univ.

Corbin, George A., *Prof. Emer., Art*: B.A., Oakland Univ.; M.A., Bucknell Univ.; M.A., Ph.D., Columbia Univ.

Corigliano, John P., *Dist. Prof. Emer., Mus., Multimed., Theatre, and Dance*: B.A., Columbia Coll.

Costinescu, Gheorghe, *Prof. Emer., Mus.*: M.S., Bucharest Mus. Conservatory; Post Grad. Diploma, Juilliard School of Music; Ph.D., Columbia Univ.

Danzger, M. Herbert, *Prof. Emer., Soc.*: B.A., Yeshiva Univ.; M.A., Ph.D., Columbia Univ.

Davis, Allan, *Prof. Emer., Mus.*: B. Mus., M. Mus., Syracuse Univ.

Dayan, Jean, *Prof. Emer., Chem.*: B.A., Brooklyn Coll.; M.S., Ohio State Univ.; Ph.D., Columbia Univ.

DellaCava, Frances A., *Dir. of Adult Degree Prog. and Asst. Prof. Emer., Soc. & Soc. Wk.*: B.A., Hunter Coll.; M.A., Columbia Univ.; Ph.D., Fordham Univ.

DeMinco, Sandra, *Assoc. Prof. Emer., Libr.*: B.A., State Univ. of New York at Oneonta; M.A., Hunter Coll.; M.S.L., C.W. Post Coll. of Long Island Univ.

Diamond, Harold, *Prof. Emer., Mus. Librarian*: B.A., Hunter Coll.; M.S., Columbia Univ.; M.A., New York Univ.

DiBennard, Robert, *Prof. Emer., Anthro.*: B.A., M.A., Hunter Coll.; Ph.D., CUNY Grad. Cent.

DiPaolo, Maria Grazia, *Prof. Emer., Langs. & Lits.*: B.A., Hunter Coll.; M.A., Ph.D., Columbia Univ.

Dickman, Ronald, *Prof. Emer., Phys. & Astron.*: B.A., Hunter Coll.; Ph.D., Univ. of Texas.

DiGennaro, Joseph, *Prof. Emer., ExSL*: B.A., Hunter Coll.; M.S., Univ. of Illinois; Ed.D., Teachers Coll., Columbia Univ.

Donleavy, Mary Rita, *Prof. Emer., Sp. Serv. In Ed.*: B.A., M.A., Hunter Coll.; Ph.D., Fordham Univ.

Donnelly, Margaret E., *Assoc. Prof. Emer., Soc. & Soc. Wk.*: B.A., Russell Sage Coll.; M.A., Ph.D., Fordham Univ.

Dougherty, Charles M., *Assoc. Prof. Emer., Chem.*: B.A., Williams Coll.; Ph.D., Pennsylvania State Univ.

Downs, Frederick, *Prof. Emer., Chem.*: B.A., Hunter Coll.; M.S., Ph.D., New York Med. Coll.

Duberman, Martin B., *Dist. Prof. Emer., Hist.*: B.A., Yale Univ.; M.A., Ph.D., Harvard Univ.

Dubler, Walter, *Assoc. Prof. Emer., Engl.*: B.A., Yeshiva Univ.; M.A., Tulane Univ.; Ph.D., Harvard Univ.

Ebel, Harvey C., *Assoc. Prof. Emer., ExSL*: B.A., The City Coll. of New York; M.S., Ph.D., Penn. State Univ.

Edel, Wilbur, *Prof. Emer., Pol. Sci.*: B.S., New York Univ.; M.A., Ph.D., Columbia Univ.

Elftman, Alice G., *Prof. Emer., Biol. Sci.*: B.A., New York State Coll. for Teachers; M.A., Ph.D., Cornell Univ.

Engelke, Charles E., *Assoc. Prof. Emer., Phys. & Astron.*: B.S., Queens Coll.; M.A., Ph.D., Columbia Univ.

Fitting, Melvin C., *Prof. Emer., Math. & Computer Sci.*: B.S., Rensselaer Polytech. Inst.; M.S., Ph.D., Yeshiva Univ.

Fleischer, Michael M., *Prof. Emer., ExSL:* B.S., The City Coll. of New York; M.A., Ed.D., Teachers Coll., Columbia Univ.

Fletcher, Angus, *Dist. Prof. Emer., Engl.:* B.A., Yale Univ.; Dipl. d'Etudes, Univ. of Grenoble (France); M.A., Yale Univ.; Ph.D., Harvard Univ.

Flint, Shirley H., *Assoc. Prof. Emer., Early Childh. & Elem. Ed.:* B.A., New York Univ.; M.A., Hunter Coll.; Ed.D., Teachers Coll., Columbia Univ.

Frankel, Edward, *Prof. Emer., Early Childh. & Elem. Ed.:* B.S., The City Coll. of New York; M.A., Columbia Univ.; Ph.D., Yeshiva Univ.

Frederickson, Keville, *Prof. Emer., Nurs.:* B.S., Columbia Univ.; M.Ed., Ed.D., Teachers Coll., Columbia Univ.; Cert., Level Two Cert., Spanish, Language Instit. Monterey, Mexico.

Freedberg, Sharon, *Assoc. Prof. Emer., Soc. Wk.:* B.A., City Coll. of New York; M.S.W., State Univ. of New York at Buffalo; Ph.D., Columbia Univ.

Freedman, Philip I., *Prof. Emer., Secondary, Adult, and Bus. Ed.:* B.S.S., City Coll. of New York; M.A., Ph.D., Columbia Univ.

Fuchs, Morton, *Assoc. Prof. Emer., Phys. & Astron.:* B.S.E.E., City Coll. of New York; Ph.D., Univ. of Mich.

Galli, Nicholas A., *Prof. Emer., Health Sci.:* B.S., M.S., Brooklyn Coll.; Ph.D., Univ. of Illinois.

Gavurin, Edward I., *Prof. Emer., Psychol.:* B.A., Brooklyn Coll.; M.A., Ph.D., New York Univ.

Geehern, Margaret K., *Assoc. Prof. Emer., Phys. & Astron.:* B.S., M.S., Ph.D., Fordham Univ.

Gillespie, John R., *Prof. Emer., Phys. & Astron.:* B.S., Univ. of Rochester; Ph.D., Univ. of California at Berkeley.

Gillison, David, *Prof. Emer., Art:* M.F.A., Natl. Gallery of Art, Victoria School of Art, Australia; Post Grad. Studies, Slade School of Fine Art, Univ. of London.

Gitterman, Martin, *Prof. Emer., Speech-Lang.-Hearing Sci.:* B.A., Hunter Coll.; M.A., Lehman Coll.; Ph.D., CUNY Grad. Cent.

Goldfarb, Robert, *Prof. Emer., Speech-Lang.-Hearing Sci.:* B.A., M.S., Brooklyn Coll.; Ph.D., CUNY Grad. Cent.

Goodwin, M. Beatrice, *Prof. Emer., Nurs.:* B.S.N., Vanderbilt Univ.; M.A., Ph.D., New York Univ.

Gottesfeld, Harry, *Prof. Emer., Psych.:* B.A., Brooklyn Coll.; Ph.D., New York Univ.

Gottsegen, Gloria Behar, *Prof. Emer., Sp. Serv. in Ed.:* B.A., New York Univ.; M.A., The City Coll. of New York; Ph.D., New York Univ.

Griffin, Alice, *Prof. Emer., Engl.:* B.A., George Wash. Univ.; M.A., Ph.D., Columbia Univ.

Griffeth, Nancy, *Prof. Emer., Math & Computer Sci.:* B.A., Harvard Coll.; Ph.D., Univ. of Chicago.

Guelich, Ernestine D., *Assoc. Prof. Emer., Engl.:* B.A., Hunter College; M.A., Columbia Univ.; Ph.D., Fordham Univ.

Guñazú, Maria Cristina, *Prof. Emer., Langs. & Lits.:* Teach. of French, Univ. Nacional de Cuyo; M.S., Southern Connecticut State Univ., M.A., Ph.D., Yale Univ.

Guthwin, Hyman, *Assoc. Prof. Emer., Biol. Sci.:* B.A., M.S., Ph.D., New York Univ.

Haas, Ann Pollinger, *Prof. Emer., Health Serv.:* B.A., Wheeling Coll.; M.A., Ph.D., Fordham Univ.

Haboucha, Reginetta, *Prof. Emer., Rom. Lang.:* B.A., Queens Coll.; M.A., Ph.D., Johns Hopkins Univ.

Hammond, Dorothy, *Assoc. Prof. Emer., Biol. Sci.:* B.A., Wellesley Coll.; M.A., Ph.D., Columbia Univ.

Hannes, Martin, *Assoc. Prof. Emer., Psych.:* B.S., The City Coll. of New York; M.A., Ph.D., Columbia Univ.

Harris, Gilbert J., *Assoc. Prof. Emer., Psych.:* B.S., The City Coll. of New York; Ph.D., State Univ. of New York at Buffalo.

Hayden, Seymour, *Prof. Emer., Math. & Computer Sci.:* B.A., Univ. of Wisconsin; M.A., Ph.D., Harvard Univ.

Herd, Beryl, *Prof. Emer., ExSL:* B.A., M.S., Hunter Coll.; Ph.D., St. John's Univ.

Hoffmann, Ursula F., *Assoc. Prof. Emer., Langs. & Lits.:* B.A., Smith Coll.; M.A., Ph.D., Yale Univ.

Hughes, Charles W., *Prof. Emer., Mus.:* B.S., M.A., Ph.D., Columbia Univ.

Humpherys, Anne, *Prof. Emer., Engl.:* B.A., Stanford Univ.; M.A., Ph.D., Columbia Univ.

Hyatt, Jack, *Prof. Emer., Mus., Multimed., Theatre, and Dance:* B.F.A., Univ. of New Mexico; M. Mus., D.M.A., Boston Univ.

Isaac, Richard E., *Prof. Emer., Math. & Computer Sci.:* B.A., Cornell Univ.; Ph.D., Univ. of Calif. at Berkeley.

Isaacs, Godfrey, *Prof. Emer., Math & Computer Sci.:* B.S., M.S., Univ. of Capetown; Ph.D., Univ. of London.

Jackson, Joseph L., *Assoc. Prof. Emer., Acad. Skills/SEEK:* B.S., North Carolina Agric. & Tech. Univ.; M.S.W., Adelphi Univ.; Ed.D., Univ. of Mass.

James, Alice G., *Assoc. Prof. Emer., Anthro.:* B.A., Hunter Coll.; M.A., Ph.D., Columbia Univ.

Johnston, Helen, *Assoc. Prof. Emer., Chem.*: B.S., Howard Coll.; Ph.D., Columbia Univ.

Jones, C. Robert, *Prof. Emer., Biol. Sci.*: B.S., Univ. of Scranton; M.S., Ph.D., Fordham Univ.

Joseph, Gerhard, *Prof. Emer., Engl.*: B.A., M.A., Univ. of Connecticut; Ph.D., Univ. of Minnesota.

Judd, Jacob, *Prof. Emer., Hist.*: B.A., M.A., Ph.D., New York Univ.

Kay, Ulysses, *Dist. Prof. Emer., Mus.*: B.A., Univ. of Arizona; M. Mus., Eastman School of Mus.

Kane, Margaret O'Shea, *Prof. Emer., Bus. Ed.*: B.A., Hunter Coll.; M.A., Ed.D., New York Univ.

Kearns, Francis E., *Prof. Emer., Engl.*: B.A., New York Univ.; M.A., Univ. of Chicago; Ph.D., Univ. of North Carolina.

Keen, Linda, *Prof. Emer., Math. & Computer Sci.*: B.A., The City Coll. of New York; Ph.D., Courant Instit. of Math. Sciences.

Kiesler, Rose, *Assoc. Prof. Emer., Geol. & Geog.*: B.A., Hunter Coll.; M.A., Columbia Univ.

Kligerman, Jack M., *Prof. Emer., Engl.*: B.A., M.A., Syracuse Univ.; Ph.D., Univ. of Calif. at Berkeley.

Knehr, Charles A., *Prof. Emer., Psych.*: B.A., M.A., Ph.D., Columbia Univ.

Kravetz, Nathan, *Prof. Emer., Early Childh. & Elem. Ed.*: B.Ed., M.A., Ed.D., Univ. of Calif. at Los Angeles.

Kravitt, Edward F., *Prof. Emer., Mus.*: B.A., M.A., Ph.D., New York Univ.

Kunstler, Robin, *Prof. Emer., Health Sci.*: B.A., State Univ. of New York at Albany; M.S., Northeastern Univ.; D. Rec., Indiana Univ.

Laderman, Julian D., *Assoc. Prof. Emer., Math. & Computer Sci.*: B.A., M.S., Ph.D., New York Univ.

Lagos, Maria, *Assoc. Prof. Emer., Anthro.*: B.A., M.A., M.Phil., Ph.D., Columbia Univ.

Lahey, Miriam P., *Assoc. Prof. Emer., Health Serv.*: B.A., Mt. St. Vincent Univ., Halifax; Ed.M., Ed.D., Teachers Coll., Columbia Univ.

Lampen, Dorothy, *Prof. Emer., Econ., Acct., & Bus. Adm.*: B.A., Carleton Coll.; Ph.D., Johns Hopkins Univ.

LaRuffa, Anthony L., *Prof. Emer., Anthro.*: B.A., The City Coll. of New York; M.A., Ph.D., Columbia Univ.

Lavin, David E., *Prof. Emer., Soc.*: B.A., Colby Coll.; M.A., Ph.D., New York Univ.

Lazarus, Marc S., *Prof. Emer., Chem.*: B.S., City Coll. of New York; M.A., Ph.D., Princeton Univ.

Lebowitz, Aaron, *Assoc. Prof. Emer., Math. & Computer Sci.*: B.A., M.A., Ph.D., Yeshiva Univ.

Lehmann, Margaret Grennan, *Prof. Emer., Engl.*: B.A., Hunter Coll.; M.A., Ph.D., Columbia Univ.

Lerzundi, Patricio, *Prof. Emer., Journalism and Med. Stud.*: B.A., Columbia Univ.; Ph.D., CUNY Grad. Cent.

Levy, Sandra, *Prof. Emer., Speech-Lang.-Hearing Sci.*: B.A., M.A., Wayne State Univ.; M.A. Stanford Univ.; Ph.D., CUNY Grad. Cent.

Levi, Howard, *Prof. Emer., Math. & Computer Sci.*: B.A., Ph.D., Columbia Univ.

Lewittes, Joseph, *Prof. Emer., Math. & Computer Sci.*: B.A., M.A., Ph.D., Yeshiva Univ.

Locke, John L., *Prof. Emer., Speech-Lang.-Hearing Sci.*: B.A., Ripon Coll.; M.A., Ph.D., Ohio Univ.

Losada, Luis A., *Prof. Emer., Langs. and Lits.*: B.A., Hunter Coll.; M.A., Ph.D., Columbia Univ.

Lundberg, Robert, *Prof. Emer., Second., Adult, and Bus. Ed.*: B.Ed., Wisc. State Coll.; M.A., Ed.D., Teachers Coll., Columbia Univ.

Maldonado, Nancy, *Prof. Emer., Early Childh. & Childh. Ed.*: B.A., M.S., Lehman Coll.; Ed.D., Teachers Coll., Columbia Univ.

Massa, Janis, *Assoc. Prof. Emer., Engl.*: B.A., M.A., San Francisco State Univ.; M.A., Ph.D., New York Univ.

McKenna, Anna Brohmer, *Prof. Emer., Art*: B.A., Hunter Coll.; M.A., Columbia Univ.

McLaughlin, Andrew C., *Prof. Emer., Philos.*: B.A., Union Coll.; Ph.D., State Univ. of New York at Buffalo

McNamee, Abigail S., *Prof. Emer., Early Childh. & Childh. Ed.*: B.A., M.Ed., Westminster Coll.; M.S., M. Phil., Ph.D., CUNY Grad. Cent.; Ed.D., Univ. of Pittsburgh.

Mencher, Joan P., *Prof. Emer., Anthro.*: B.A., Smith Coll.; Ph.D., Columbia Univ.

Menéndez, Barbara, *Assoc. Prof. Emer., Health Sci.*: B.A., Univ. of Wisc.; M.P.H., Ph.D., Univ. of Pittsburgh.

Messing, Janet K., *Prof. Emer., Econ., Acct., & Bus. Adm.*: B.A., Hunter Coll.; M.S., Columbia Univ.; Ph.D., New York Univ.; C.P.A., New York State.

Meyer, Paul R., *Prof. Emer., Math. & Computer Sci.*: B.A., Dartmouth Coll.; M.S., Thayer School of Engr.; M.A., Ph.D., Columbia Univ.

Meyer, Ursula, *Prof. Emer., Art*: B.A., New School for Soc. Research; M.A., Columbia Univ.

Meyersohn, Rolf B., *Prof. Emer., Soc. & Soc. Wk.*: B.A., Harvard Coll.; M.A., Ph.D., Columbia Univ.

Moffitt, Brenda P., *Assoc. Prof. Emer., Biol. Sci.*: B.Sc., Bedford Coll. (U.K.); M.Sc., Univ. Coll., Univ. of London; Ph.D., Columbia Univ.

Montero, Oscar, *Prof. Emer., Langs. & Lits.*: B.A., M.A., Ph.D., Univ. of North Carolina.

Morgan, Kathleen E., *Prof. Emer., Langs. & Lits.*: B.A., Stanford Univ.; M.A., M.Phil., Ph.D., Yale Univ.

Morgan-Cato, Charlotte T., *Assoc. Prof. Emer., Black Studies*: B.A., Univ. of Chicago; M.I.A., Columbia Univ.; M.Ed., Ed.D., Teachers Coll., Columbia Univ.

Movesian, George, *Prof. Emer., Early Childh. & Elem. Ed.*: B.A., Univ. of Buffalo; M.S., Ed.D., State Univ. of New York at Buffalo.

Muñoz-Millanes, José, *Prof. Emer., Langs. & Lits.*: Licenciatura en Hisp., Univ. Complutense, Madrid; Ph.D., Johns Hopkins Univ.

Murgatroyd, Dorothy, *Assoc. Prof. Emer., Psych.*: B.A., Barnard Coll.; M.A., Ph.D., Univ. of Penn.

Murphy, Daniel B., *Prof. Emer., Chem.*: B.S., M.S., Fordham Univ.; Ph.D., Penn. State Univ.

Newman, Charlotte, *Assoc. Prof. Emer., Biol. Sci.*: B.A., M.A., Univ. of Mich.; M.A., Ph.D., Radcliffe Coll.

Norris, Nilan, *Prof. Emer., Econ., Acct., & Bus. Adm.*: B.A., M.A., Ph.D., Stanford Univ.

Ostrow, Rona, *Prof. Emer., Chief Lib.*: B.A., City Coll. of New York; M.S.L.S., Columbia Univ.; M.A., Hunter Coll.; Ph.D., Rutgers Univ.

Patti, Anthony V., *Prof. Emer., Second., Adult, and Bus. Ed.*: B.S., M.A., New York Univ.; Ed.D., Teachers Coll., Columbia Univ.

Perl, Sondra, *Prof. Emer., Engl.*: B.A., Simmons Coll.; M.A., Ph.D., New York Univ.

Phelps, Fred D., *Prof. Emer., Psych.*: B.A., M.A., Eastern New Mexico Univ.; Ph.D., Northwestern Univ.

Philipp, Manfred, *Prof. Emer., Chem.*: B.S. Michigan Technological Univ.; Ph.D., Northwestern Univ.

Phillips, Esther R., *Prof. Emer., Math. & Computer Science*: B.S., Brooklyn Coll.; M.A., Ph.D., New York Univ.

Piña-Rosales, Gerardo, *Prof. Emer., Langs. & Lits.*: B.A., Queens Coll.; M.A., Ph.D., CUNY Grad. Cent.

Polirstok, Susan, *Prof. Emer., Sp. Serv. in Ed.*: B.A., M.S., The City Coll. of New York; Ed.D., Teachers Coll., Columbia Univ.

Proskauer, Paul, *Assoc. Prof. Emer., Class., Orient., Germ. & Slav. Lang.*: B.B.A., The City Coll. of New York; M.A., Hunter Coll.; Ph.D., Columbia Univ.

Raphael, Lawrence J., *Prof. Emer., Speech & Theatre*: B.A., M.A., Queens Coll.; Ph.D., CUNY Grad. Cent.

Reed, Victor, *Assoc. Prof. Emer., Engl.*: B.A., M.A., Harvard Univ.; Ph.D., Columbia Univ.

Ritter, Walter P., *Prof. Emer., Psychol.*: B.A., The City Coll. of New York; Ph.D., Teachers Coll., Columbia Univ.

Roberts, Edgar V., Jr., *Prof. Emer., Engl.*: B.A., M.A., Ph.D., Univ. of Minn.

Robinson, Chester H., *Prof. Emer., Spec., Serv., Ed.*: B.A., Union Coll.; Ph.D., Stamford Univ.

Romano, Salvatore, *Prof. Emer., Art*

Rowley-Rotunno, Virginia, *Prof. Emer., Second. Adult, and Bus. Ed.*: B.A., Hunter Coll.; M.A., Fordham Univ.; Ph.D., Columbia Univ.

Schoengood, George J., *Prof. Emer., Second., Adult, and Bus. Ed.*: B.A., Brooklyn Coll.; M.P.A., Ed.D., New York Univ.

Seeman, Howard, *Prof. Emer., Middle & H.S. Ed.*: B.A., Albany State Teachers Coll.; M.A., Ph.D., New School for Soc. Research

Seraile, William, *Prof. Emer., Afr. and Afr. Am. Studies*: B.A., Central Washington State Univ.; M.A., Teachers Coll., Columbia Univ.; Ph.D., CUNY Grad. Center

Shannon, Michael, *Prof. Emer., Libr.*: B.A., Manhattan Coll.; M.L.S., Columbia Univ.

Shaw, Frederick C., *Prof. Emer., Geol. & Geog.*: B.A., Harvard Coll.; M.S., Univ. of Cincinnati; Ph.D., Harvard Univ.

Shechter, Yaakov, *Prof. Emer., Biol. Sci.*: B.Sc., Ph.D., Univ. of Calif. at Los Angeles.

Shockett, Bernard, *Prof. Emer., Mus., Multimed., Theatre, and Dance*: B.M., Manhattan School of Music; M.A., Brooklyn Coll.; Ph.D., New York Univ.

Sicherman, Carol, *Prof. Emer., Engl.*: B.A., Barnard Coll.; B.Litt., Oxford Univ.; M.A., Ph.D., Univ. of Wisc.

Silverman, Helene, *Prof. Emer., Early Childh. & Childh. Ed.*: B.A., M.S., Queens Coll.; Ph.D., Fordham Univ.

Smullyan, Raymond M., *Prof. Emer., Math. & Computer Sci.*: M.S., Univ. of Chicago; Ph.D., Princeton Univ.

Spielholtz, Gerald I., *Prof. Emer., Chem.*: B.S., The City Coll. of New York; M.S., Univ. of Michigan; Ph.D., Iowa State Univ.

Stolnitz, M. Jerome, *Prof. Emer., Philos.*: B.S.S., The City Coll. of New York; Ph.D., Harvard Univ.

Stuart, Irving R., *Prof. Emer., Psych.*: B.S.S., M.S.Ed., The City Coll. of New York; Ph.D., New York Univ.

Stuart, Meriwether, *Prof. Emer., Class., Orient., Germ., & Slav. Lang.*: B.A., William Jewel Coll.; A.M., Indiana Univ.; Ph.D., Columbia Univ.

Swartz, Karyl B., *Prof. Emer., Psych.*: B.A., Coll. of Wooster; M.A., George Peabody Coll.; Ph.D., Brown Univ.

Taback, Stanley F., *Prof. Emer., Middle & H.S. Ed.*: B.A., M.A., Columbia Univ.; Ph.D., Teachers Coll., Columbia Univ.

Tananbaum, Duane, *Prof. Emer., Hist.*: B.A., Cornell Univ.; M.A., M.Phil., Ph.D., Columbia Univ.

Taus, Esther R., *Prof. Emer., Econ., Acct., & Bus. Adm.*: B.A., Hunter Coll.; M.A., Ph.D., Columbia Univ.

Taylor, James V., *Prof. Emer., Anthro.*: B.S., Ph.D., Columbia Univ.

Teitelbaum, Blanche R., *Assoc. Prof. Emer., ExSL*: B.A., Hunter Coll.; M.S., The City Coll. of New York.

Thompson, Patricia J., *Prof. Emer., Cslg. Ldrshp., Lit., & Sp. Ed.*: B.A., Barnard Coll.; M.S., Lehman Coll.; M.A., M.Ed., Ed.D., Teachers Coll., Columbia Univ.

Toralballe, Gloria C., *Prof. Emer., Chem.*: B.S., M.S., Univ. of Philippines; Ph.D., Univ. of Mich.

Tuller, Annita, *Prof. Emer., Math. & Computer Sci.*: B.A., Hunter Coll.; M.A., Ph.D., Bryn Mawr Coll.

Tusiani, Joseph, *Prof. Emer., Rom. Lang.*: Dottore in Lettere, Univ. of Naples; Litt. D., Coll. of Mt. St. Vincent.

Ullman, Jack D., *Prof. Emer., Phys. & Astron.*: B.S., M.S., Ph.D., Univ. of Ill.

Valdovinos, Jack G., *Prof. Emer., Biol. Sci.*: B.S., M.S., Winona State Coll.; Ph.D., Univ. of Iowa.

Valgema, Mardi, *Prof. Emer., Engl.*: B.A., Rutgers Univ.; Ph.D., Univ. of Calif. at Los Angeles.

Villa, Juan F., *Prof. Emer., Chem.*: B.S., M.S., Ph.D., Univ. of Miami.

Voge, Susan, *Assoc. Prof. Emer., Libr.*: B.A., Brooklyn Coll.; M.S.L.S., Columbia Univ.; M.B.A., Fordham Univ.

Walker, Ruth A., *Prof. Emer., Chem.*: B.A., Vassar Coll.; Ph.D., Yale Univ.

Webster, Sara, *Prof. Emer., Art*: B.A., Barnard Coll.; M.A., Univ. of Cincinnati; Ph.D., CUNY Grad. Cent.

Weiss, John, *Prof. Emer., History*: B.A., Wayne State Univ.; M.A., Ph.D., Columbia Univ.; Ph.D., Yale Univ.

Wells, Carl F., *Prof. Emer., Psych.*: B.S.S., The City Coll. of New York; M.A., Columbia Univ.; Ph.D., New York Univ.

Wille, Rosanne, *Prof. Emer., Nurs.*: B.S., B.S.N., William Patterson Coll.; M.P.A., Rutgers Univ.; M.A., Ph.D., New York Univ.

Woodcock, Wilson W., *Assoc. Prof. Emer., Phys. & Astron.*: B.A., M.Sc., Vanderbilt Univ.

Young, Frederick F., *Assoc. Prof. Emer., Geol. & Geog.*: B.A., Amherst Coll.; A.M., Ph.D., Columbia Univ.

Zerner, Ruth, *Assoc. Prof. Emer., Hist.*: B.A., Hunter Coll.; M.A., Stanford Univ.; Ph.D., Univ. of Calif. at Berkeley

Ziemann, Richard C., *Prof. Emer., Art*: B.F.A., M.F.A., Yale Univ.

Zulueta, Carmen de, *Prof. Emer., Rom. Lang.*: M.A., Radcliffe Coll.; Ph.D., New York Univ.

Appendix

Board of Trustees Rules and Regulations on Campus Conduct

Rules and Regulations for the Maintenance of Public Order Pursuant to Article 129-A of the Education Law

The tradition of the University as a sanctuary of academic freedom and center of informed discussion is an honored one, to be guarded vigilantly. The basic significance of that sanctuary lies in the protection of intellectual freedoms: the rights of professors to teach, of scholars to engage in the advancement of knowledge, of students to learn and express their views, free from external pressures or interference. These freedoms can flourish only in an atmosphere of mutual respect, civility, and trust among teachers and students, only when members of the University community are willing to accept self-restraint and reciprocity as the condition upon which they share in its intellectual autonomy.

Academic freedom and the sanctuary of the University campus extend to all who share these aims and responsibilities. They cannot be invoked by those who would subordinate intellectual freedom to political ends, or who violate the norms of conduct established to protect that freedom. Against such offenders the University has the right, and indeed the obligation, to defend itself. We accordingly announce the following rules and regulations to be in effect at each of our colleges which are to be administered in accordance with the requirements of due process as provided in the *Bylaws* of the Board of Higher Education.

With respect to enforcement of these rules and regulations we note that the Bylaws of the Board of Trustees provide that:

"The president, with respect to his education unit, shall:

Have the affirmative responsibility of conserving and enhancing the educational standards of the college and schools under his jurisdiction;

Be the advisor and executive agent of the Board and of his respective College Committee and as such shall have the immediate supervision with full discretionary power in carrying into effect the Bylaws, resolutions, and policies of the Board, the lawful resolutions of the several faculties;

Exercise general superintendence over the concerns, officers, employees, and students of his educational unit."

I. Rules

1. A member of the academic community shall not intentionally obstruct and/or forcibly prevent others from the exercise of their rights. Nor shall he interfere with the institution's educational processes or facilities, or the rights of those who wish to avail themselves of any of the institution's instructional, personal, administrative, recreational, and community services.
2. Individuals are liable for failure to comply with lawful directions issued by representatives of the University/college when they are acting in their official capacities. Members of the academic community are required to show their identification cards when requested to do so by an official of the college.
3. Unauthorized occupancy of University/college facilities or blocking access to or from such areas is prohibited. Permission from appropriate college authorities must be obtained for removal, relocation, and use of University/college equipment and/or supplies.
4. Theft from or damage to University/college premises or property, or theft of or damage to property of any person on University/college premises is prohibited.
5. Each member of the academic community or an invited guest has the right to advocate his position without having to fear abuse, physical, verbal, or otherwise from others supporting conflicting points of view. Members of the academic community and other persons on the college grounds shall not use language or take actions reasonably likely to provoke or encourage physical violence by demonstrators, those demonstrated against, or spectators.
6. Action may be taken against any and all persons who have no legitimate reason for their presence on any campus within the University/college, or whose presence on any such campus obstructs and/or forcibly prevents others from the exercise of their rights or interferes with the institution's educational processes or facilities, or the rights of those who wish to avail themselves of any of the institution's instructional, personal, administrative, recreational, and community services.
7. Disorderly or indecent conduct on University/college-owned or controlled property is prohibited.
8. No individual shall have in his possession a rifle, shotgun, or firearm or knowingly have in his possession any other dangerous instrument or material that can be used to inflict bodily harm on an individual or damage upon a building or

the grounds of the University/college without the written authorization of such educational institution. Nor shall any individual have in his possession any other instrument or material which can be used and is intended to inflict bodily harm on an individual or damage upon a building or the grounds of the University/college.

9. Any action or situation which recklessly or intentionally endangers mental or physical health or involves the forced consumption of liquor or drugs for the purpose of initiation into or affiliation with any organization is prohibited.
10. The unlawful manufacture, distribution, dispensation, possession, or use of illegal drugs or other controlled substances by University students or employees in the workplace is prohibited. Employees of the University must also notify the College Personnel Director of any criminal drug statute conviction for a violation occurring in the workplace not later than five (5) days after such conviction.
11. The unlawful possession, use, or distribution of alcohol by students or employees on University/college premises or as part of any University/college activities is prohibited.

II. Penalties

1. Any student engaging in any manner of conduct prohibited under substantive Rules 1 to 11 shall be subject to the following range of sanctions as hereafter defined: admonition, warning, censure, disciplinary probation, restitution, suspension, expulsion, ejection, and/or arrest by the civil authorities.
2. Any tenured or non-tenured faculty member, or other member of the instructional staff, or member of the classified staff engaging in any manner in conduct prohibited under substantive Rules 1 to 11 shall be subject to the following range of penalties: warning, censure, restitution, fine not exceeding those permitted by law or by the Bylaws of the City University of New York, or suspension with/without pay pending a hearing before an appropriate College authority, dismissal after a hearing, ejection, and/or arrest by the civil authorities, and, for engaging in any manner in conduct prohibited under substantive rule 10, may, in the alternative, be required to participate satisfactorily in an appropriately licensed drug treatment or rehabilitation program. A tenured or non-tenured faculty member, or other member of the instructional staff, or member of the classified staff engaging in any manner in conduct prohibited under substantive Rules 1 to 11, shall be entitled to be treated in accordance with applicable provisions of the Education Law, or the Civil Service Law, or the applicable collective bargaining agreement, or the Bylaws or written policies of the City University of New York.
3. Any visitor, licensee, or invitee engaging in any manner in conduct prohibited under substantive Rules 1 to 11 shall be subject to ejection, and/or arrest by the civil authorities.
4. Any organization which authorizes the conduct prohibited under substantive rules 1-11 shall have its permission to operate on campus rescinded.

Penalties 1-4 shall be in addition to any other penalty provided by law or the City University Trustees.

Sanctions Defined:

1. Admonition. An oral statement to the offender that he has violated University rules.
2. Warning. Notice to the offender, orally or in writing, that continuation or repetition of the wrongful conduct, within a period of time stated in the warning, may be cause for more severe disciplinary action.
3. Censure. Written reprimand for violation of specified regulation, including the possibility of more severe disciplinary sanction in the event of conviction for the violation of any University regulation within a period stated in the letter of reprimand.
4. Disciplinary Probation. Exclusion from participation in privileges or extracurricular University activities as set forth in the notice of disciplinary probation for a specified period of time.
5. Restitution. Reimbursement for damage to or misappropriation of property. Reimbursement may take the form of appropriate service to repair or otherwise compensate for damages.
6. Suspension. Exclusion from classes and other privileges or activities as set forth in the notice of suspension for a definite period of time.
7. Expulsion. Termination of student status for an indefinite period. The conditions of readmission, if any is permitted, shall be stated in the order of expulsion.
8. Complaint to Civil Authorities.
9. Ejection. Bylaw Section 15.6

Suspension or Dismissal.

The Board of Trustees reserves full power to dismiss or suspend a student, or suspend a student organization for conduct which impedes, obstructs, or interferes with the orderly and continuous administration and operation of any college, school, or unit of the university in the use of its facilities or in the achievement of its purposes as an educational institution.

The Chancellor or Chancellor's designee, a president or any dean may in emergency or extraordinary circumstances, temporarily suspend a student, or temporarily suspend the privileges of a student organization or group for cause, pending an early hearing as provided in bylaw section 15.3 to

take place within not more than seven (7) school days. Prior to the commencement of a temporary suspension of a student, the College shall give such student oral or written notice of the charges against him/her and, if he/she denies them, the College shall forthwith give such student an informal oral explanation of the evidence supporting the charges and the student may present informally his/her explanation or theory of the matter. When a student's presence poses a continuing danger to person or property or an ongoing threat of disrupting the academic process, notice and opportunity for denial and explanation may follow suspension, but shall be given as soon as feasible thereafter.

Notice of Non-Discrimination

It is the policy of The City University of New York—applicable to all colleges and units—to recruit, employ, retain, promote, and provide benefits to employees and to admit and provide services for students without discriminating on the basis of actual or perceived race, color, creed, national origin, ethnicity, ancestry, religion, age, sex, sexual orientation, gender, gender identity, marital status, partnership status, disability, genetic information, alienage, citizenship, military or veteran status, pregnancy, status as a victim of domestic violence/stalking/sex offenses, unemployment status, caregiver or familial status, prior record of arrest or conviction, or any other legally prohibited basis in accordance with federal, state and city laws. This policy is set forth in CUNY's Policy on Equal Opportunity and Non-Discrimination.

CUNY's Policy on Sexual Misconduct prohibits all forms of sexual misconduct, including sexual harassment, gender harassment and sexual violence. Inquiries concerning sexual misconduct or sex discrimination may be made to the individuals specified in that Policy or may be referred to the U.S. Department of Education, Office for Civil Rights.

It is also the University's policy to provide reasonable accommodations and academic adjustments when appropriate, to individuals with disabilities, individuals observing religious practices, individuals who have pregnancy or childbirth-related medical conditions and victims of domestic violence/stalking/sex offenses. The process for addressing these issues is set forth in CUNY's Procedures for Implementing Reasonable Accommodations and Academic Adjustments.

Retaliation for reporting or opposing discrimination, cooperating with an investigation of a discrimination complaint, or requesting an accommodation or academic adjustment is also prohibited.

To access CUNY's Policy and Procedures on Equal

Opportunity and Non-Discrimination, Policy on Sexual Misconduct, and Procedures for Implementing Reasonable Accommodations and Academic Adjustments, please visit these links:

CUNY Equal Opportunity and Non-Discrimination

<http://www2.cuny.edu/wp-content/uploads/sites/4/page-assets/about/administration/offices/hr/policies-and-procedures/CUNYPolicy-Equal-Opportunity-and-Non-Discrimination-010115-procedures.pdf>

CUNY Policy on Sexual Misconduct

<http://www2.cuny.edu/wp-content/uploads/sites/4/page-assets/about/administration/offices/legal-affairs/POLICY-ON-SEXUAL-MISCONDUCT-10.1.2015-with-links.pdf>

Reasonable Accommodations and Academic Adjustments

<http://www2.cuny.edu/about/administration/offices/legal-affairs/policies-procedures/reasonable-accommodations-and-academic-adjustments/>

The following persons have been designated at Lehman College to handle inquiries and complaints relating to CUNY's Policy on Equal Opportunity and Non-Discrimination and Policy on Sexual Misconduct and to ensure compliance with CUNY's Procedures for Implementing Reasonable Accommodations and Academic Adjustments:

Policy on Equal Opportunity and Non-Discrimination

Office of Compliance and Diversity, Shuster Hall, Room 356
Telephone (718) 960-8111

Dawn Ewing Morgan, Chief Diversity Officer/Title IX Coordinator

Email: dawn.ewing-morgan@lehman.cuny.edu

Maritza Rivera, Associate Director for Compliance and Diversity

Email: maritza.rivera@lehman.cuny.edu

Policy on Sexual Misconduct

Dawn Ewing Morgan, Chief Diversity Officer/Title IX Coordinator

Shuster Hall, Room 356 Telephone (718) 960-8111

Email: dawn.ewing-morgan@lehman.cuny.edu

Fausto Ramirez, Public Safety Director
APEX, Room 109 Telephone (718) 960-8594
Email: fausto.ramirez@lehman.cuny.edu

José Magdaleno, Vice President for Student Affairs

Shuster Hall, Room 204 Telephone (718) 960-8241
Email: joseph.magdaleno@lehman.cuny.edu

Reasonable Accommodations and Academic Adjustments

Student Disability Services, Shuster Hall, Room 238 Telephone (718) 960-8111
Email: disability.services@lehman.cuny.edu

Reasonable Accommodations (Employment) and Domestic Violence in the Workplace Policy

Office of Human Resources, Shuster Hall, Room 230
Telephone (718) 960-8181
Eric Washington, Director of Human Resources
Email: eric.washington@lehman.cuny.edu

The following federal, state, and local agencies enforce laws against discrimination:

- New York City Commission on Human Rights <http://www1.nyc.gov/site/cchr/index.page>
- New York State Division on Human Rights <http://www.dhr.ny.gov>
- U.S. Equal Employment Opportunity Commission <http://www.eeoc.gov>
- United States Department of Justice <http://www.justice.gov/>
- United States Department of Education Office for Civil Rights <http://www2.ed.gov/ocr>
A large-print version of the Notice of Non-Discrimination is available upon request in electronic and/or paper format from Lehman's Office of Compliance and Diversity.

The City University Of New York Policies And Procedures Concerning Sexual Assault, Stalking, And Domestic And Intimate Partner Violence Against Students

I. Policy Statement

The City University of New York seeks to create and maintain a safe environment in which all members of the University community - students, faculty and staff - can learn and work free from the fear of sexual assault and other forms of violence. The University's policies on Workplace Violence and Domestic Violence and the Workplace apply to all acts of violence that occur in the workplace or that may spill over into the workplace. The University's Sexual Harassment Policy prohibits many forms of unwelcome conduct, including but not limited to, physical conduct of a sexual nature. This policy is specifically directed towards sexual assault, domestic and intimate partner violence and stalking committed against students on and off-campus.

CUNY wants all victims of sexual assault, stalking and domestic and intimate partner violence to know that the University has professionals and law enforcement officers who are trained in the field to assist student victims in obtaining help, including immediate medical care, counseling and other essential services. If the alleged perpetrator is also a member of the CUNY community, the college will take prompt action to investigate, and, where appropriate, to discipline and sanction the alleged perpetrator. CUNY urges all victims to seek immediate help in accordance with the guidelines set forth in this policy with the assurance that all information received from a complaint will be handled as confidentially as possible.

In order to eliminate sexual assaults and other forms of violence perpetrated against students, and to create a safe college community, it is critical to provide an appropriate prevention education program and have trained professionals to provide vital supportive services.

Accordingly, CUNY is committed to the following goals:

- Providing clear and concise guidelines for students to follow in the event that they or someone they know have been the victim of a sexual assault, domestic/intimate partner violence, or stalking.
- Assisting victims of sexual assault or abuse in obtaining necessary medical care and counseling, whether on or off-campus.
- Providing the most informed and up-to-date education and information to its students about how to identify situations that involve sexual assault, domestic and intimate partner violence, or stalking, and ways to prevent these forms of violence.
- Educating and training all staff members, including counselors, public safety officers and student affairs staff and faculty, to assist victims of sexual assault, domestic/intimate partner violence, or stalking.
- Ensuring that disciplinary procedures are followed in the event that the alleged perpetrator is a CUNY student or employee.

II. Procedures For Reporting Incidents of Sexual Assault And Other Forms of Violence

Obtaining assistance after a student is sexually assaulted, stalked or is in an abusive relationship is extremely important and can involve different points of on-campus contact for students, faculty and staff, including the Public Safety Department, Women's/Men's Centers and Counseling Departments, and/or the Dean of Student Development/Student Affairs. Each provides different forms of assistance which together address many of the needs of survivors.

Contact Law Enforcement Personnel Immediately

CUNY urges any student who has been the victim of a sexual assault or other act of violence or abuse, or any student or employee who has witnessed a sexual assault or other act of violence against a student, to immediately report the incident to the college Public Safety Department if the attack occurred on-campus, or to call 911 or go to the local NYPD precinct if the incident took place off-campus. Each college shall be provided with a list of emergency contact numbers as part of its orientation and training programs.

Seek Immediate Medical Attention

It is critical that victims of a physical assault receive comprehensive medical attention as soon as possible. For a sexual assault in particular, immediate treatment and the preservation of evidence of the attack (i.e. retain the clothing worn during the attack and do not shower) is crucial to a criminal investigation. If a student believes that she/he may be the victim of date rape by being drugged, she/he should go directly to a hospital to receive a toxicology examination since such drugs only remain in a person's system for a short period of time. In all other circumstances, public safety and police personnel can assist the victim in obtaining medical care. Each college shall be provided with a list of local hospitals, some of which are designated as SAFE (Sexual Assault Forensic Examiner) hospitals that are specially equipped to handle sexual assaults and are trained to gather minute evidence from such assaults. Rape crisis advocates at emergency rooms are also trained to handle domestic violence. EMS will be directed to bring victims to a SAFE hospital at their request. Medical attention is critical not only to treat internal and external injuries and to combat the possibilities of sexually transmitted infections and/or pregnancy, but also to collect evidence that can be used against the alleged perpetrator. It is also vital to ongoing safety and recovery that victims receive emotional support and professional counseling as soon as possible after the attack.

Seek On-Campus Assistance

CUNY encourages student victims to contact the Dean of Student Affairs/Student Development to obtain assistance in accessing medical and counseling services, or to make any necessary changes to the student's academic program or residential housing situation. Public Safety can assist victims getting to and from campus safely, filing a police report and obtaining an order of protection against the alleged perpetrator. Victims can also file a complaint with the College against an alleged perpetrator who is a student or employee of the University with the Dean of Student Affairs/Student Development and the Public Safety Office.

Obtaining an On-Campus Advocate

Student victims of a sexual assault, stalking or domestic or intimate partner violence shall be provided with on-campus support in the form of an advocate from the Women's/Men's Center (if there is one on campus) or an appropriately trained counselor to assist them in handling the various aspects of their ordeal, such as: 1) explaining to victims their options of whether or not to report the incident to campus or law enforcement authorities; 2) providing guidance if they require medical attention; 3) providing guidance in obtaining crisis intervention and/or ongoing counseling services (or a referral to obtain the necessary services if such services are not available on campus); and 4) assisting victims throughout the College's disciplinary process if they choose to file a complaint against another student in connection with the incident.

Handling Sexual Assault, Stalking and Domestic and Intimate Partner Violence Complaints On-Campus

The Colleges shall act promptly in response to information that a student has been sexually assaulted, or has been the victim of domestic or intimate partner violence or stalking by another member of the CUNY community. Upon receipt of a complaint, the College shall undertake an appropriate investigation. If it appears that there is sufficient evidence to warrant disciplinary charges against a student or staff member, such charges shall be brought pursuant to the appropriate University procedures or collective bargaining agreement. If the alleged perpetrator is a student and the matter is brought before a hearing, the victim and alleged perpetrator are entitled to the same opportunities to have others present and to be informed of the outcome of the proceedings. The victim is entitled to a report of the results of the proceeding at her/his request. If a student is found guilty of committing a sexual assault or other act of violence against another CUNY student or employee after a disciplinary hearing, the penalties may include suspension, expulsion from residence halls, or permanent dismissal from CUNY.

In addition, if during the course of the investigation and/or disciplinary process the alleged perpetrator, or anyone on his/her behalf, seeks to contact the victim so as to harass, intimidate, threaten or coerce the victim in any way, the College reserves the right to bring additional disciplinary action against the actor. Such conduct by any member of the CUNY community will not be tolerated.

Confidentiality

The University recognizes that confidentiality is particularly important to victims of sex crimes, domestic and intimate partner violence and stalking. If the victim seeks counseling with a licensed professional and/or works with an advocate from the campus, those communications will be confidential. CUNY encourages victims in all circumstances to seek

counseling in order to speak about her/his options and to begin the recovery period.

While complete confidentiality cannot be guaranteed, every effort will be made to maintain confidentiality on a "need to know" basis. Generally, the wishes of a victim not to report a sexual assault or incident of domestic/intimate partner violence or stalking to the police will prevail, though the College reserves the right to notify the police when it believes that such reporting is necessary for the protection of the College community. Such notification, however, will generally be done without divulging the victim's identity and for the purpose of providing a campus-wide safety alert. In addition, the College must adhere to legal mandates such as Title IX, medical reporting laws, and the Campus Security Act. For example, CUNY is required to make an annual report documenting the occurrences of violent crimes on campus, including sexual assault. However, this report does not include any information identifying the individuals (including the victims) linked to these crimes.

III. Implementation of The Policies and Procedures Concerning Sexual Assault And Other Forms of Violence Against Students

The President and Vice President for Student Affairs/Student Development of each college shall be responsible for implementing this policy in accordance with the most up-to-date information and resources pertaining to sexual assault, stalking and domestic/intimate partner violence education and prevention, and victim assistance. The following steps must be taken to implement this policy:

1. **Publication:** A copy of this policy shall be easily accessible on the CUNY website and on the website administered by each College. A summary shall also be incorporated into every College student handbook. In addition, copies of the policy and procedures shall be made available in student centers, residence halls, student affairs/student development offices, women's/men's centers, counseling centers, health clinics and public safety departments, and shall be distributed to all new students during orientations.
2. **Prevention/Risk Reduction Education:** Each College shall develop materials and programs to educate its students, faculty and staff on the nature, dynamics, common circumstances and effects of sexual assault, domestic/intimate partner violence and stalking, and the means to reduce their occurrence and prevent them. Prevention education should provide up-to-date and relevant information, such as education pertaining to bystander intervention, the importance of peer networks and the significance of fostering a community of responsibility.

Prevention education materials and programs shall be incorporated into campus orientation activities for all incoming

undergraduate and graduate students (including transfers), and shall be made available to all student activity groups, clubs and athletic teams. In addition, all residence halls shall have a mandatory orientation on sexual assault, stalking and domestic/intimate partner violence prevention. Colleges are encouraged to assist in the organization of peer education groups and to provide resources to such groups so that the groups can provide training and outreach to other students throughout the academic year. Since the abuse of alcohol is frequently involved in occurrences of sexual assault and other forms of violence, it is important that the education program include education about the deleterious effects of alcohol abuse.

3. **Professional Training:** Each College shall provide periodic training relating to the prevention and handling of sexual assaults, stalking and domestic/intimate partner violence for all relevant personnel, including public safety officers, counselors, student affairs staff and residence hall assistants by experts trained in the field. Education and training shall also be made available to any interested faculty and staff member. Each campus must have at least one qualified staff or faculty member serve as a designated liaison and trainer.
4. **Oversight by CUNY Central Administration:** The University Vice Chancellor for Student Affairs shall monitor compliance with this policy at all of the campuses, shall review the policies and procedures on an annual basis, and shall make recommendations in the event that updates to prevention and education information are necessitated. In addition, the Office of the Vice Chancellor for Student Affairs shall provide educational materials that may be needed to ensure full implementation of this policy on every campus. Liaisons will be identified from each campus who will receive standardized training in order to fulfill their responsibilities on their campuses. The policies, procedures and outreach materials and programs will be subject to a periodic process of assessment in order to maintain efficacy.

Examples of Sexual Harassment

Sexual harassment may take different forms. Using a person's response to a request for sexual favors as a basis for an academic or employment decision is one form of sexual harassment. Examples of this type of sexual harassment include, but are not limited to, the following:

- requesting or demanding sexual favors in exchange for employment or academic opportunities (such as hiring, promotions, grades, or recommendations);
- submitting unfair or inaccurate job or academic evaluations or grades, or denying training, promotion, or access to any other employment or academic opportunity, because sexual advances have been rejected.

Other types of unwelcome conduct of a sexual nature can also constitute sexual harassment, if sufficiently severe or pervasive that the target does find, and a reasonable person

would find, that an intimidating, hostile, or abusive work or academic environment has been created. Examples of this kind of sexual harassment include, but are not limited to, the following:

- sexual comments, teasing, or jokes;
- sexual slurs, demeaning epithets, derogatory statements, or other verbal abuse;
- graphic or sexually suggestive comments about an individual's attire or body;
- inquiries or discussions about sexual activities;
- pressure to accept social invitations, to meet privately, to date, or to have sexual relations;
- sexually suggestive letters or other written materials;
- sexual touching, brushing up against another in a sexual manner, graphic or sexually
- suggestive gestures, cornering, pinching, grabbing, kissing, or fondling;
- coerced sexual intercourse or sexual assault.

Consensual Relationships

Amorous, dating, or sexual relationships that might be appropriate in other circumstances have inherent dangers when they occur between a faculty member, supervisor, or other member of the University community and any person for whom he or she has a professional responsibility. These dangers can include: that a student or employee may feel coerced into an unwanted relationship because he or she fears that refusal to enter into the relationship will adversely affect his or her education or employment; that conflicts of interest may arise when a faculty member, supervisor, or other member of the University community is required to evaluate the work or make personnel or academic decisions with respect to an individual with whom he or she is having a romantic relationship; that students or employees may perceive that a fellow student or coworker who is involved in a romantic relationship will receive an unfair advantage; and that if the relationship ends in a way that is not amicable, either or both of the parties may wish to take action to injure the other party.

Faculty members, supervisors, and other members of the University community who have professional responsibility for other individuals, accordingly, should be aware that any romantic or sexual involvement with a student or employee for whom they have such a responsibility may raise questions as to the mutuality of the relationship and may lead to charges of sexual harassment. For the reasons stated above, such relationships are strongly discouraged.

For purposes of this section, an individual has "professional responsibility" for another individual at the University if he or she performs functions including, but not limited to, teaching, counseling, grading, advising, evaluating, hiring, supervising,

or making decisions or recommendations that confer benefits such as promotions, financial aid awards or other remuneration, or that may impact upon other academic or employment opportunities.

Academic Freedom

This policy shall not be interpreted so as to constitute interference with academic freedom.

False and Malicious Accusations

Members of the University community who make false and malicious complaints of sexual harassment, as opposed to complaints which, even if erroneous, are made in good faith, will be subject to disciplinary action.

Procedures

The University has developed procedures to implement this policy. The President of each constituent college of the University, the Senior Vice Chancellor at the Central Office, and the Dean of the Law School shall have ultimate responsibility for overseeing compliance with this policy at his or her respective unit of the University. In addition, each dean, director, department chairperson, executive officer, administrator, or other person with supervisory responsibility shall be required to report any complaint of sexual harassment to the individual or individuals designated in the procedures. All members of the University community are required to cooperate in any investigation of a sexual harassment complaint.

Enforcement

There is a range of corrective actions and penalties available to the University for violations of this policy. Students, faculty, or staff who are found, following applicable disciplinary proceedings, to have violated this Policy are subject to various penalties, including termination of employment and/or student expulsion from the University.

Sexual Harassment Awareness and Intake Committee

The Sexual Harassment Awareness and Intake Committee is responsible for educating the Lehman College community about sexual harassment and its potential consequences to the University community. The members of the Sexual Harassment Awareness and Intake Committee are available to respond to inquiries, receive complaints alleging sexual harassment from any member of the college community, and to refer individuals and/or the complaint to the Sexual Harassment Coordinator. The members of the Sexual Harassment Awareness and Intake Committee are:

Annecy Baez, Counseling Center
(718-960-8761)

Chelsea Campbell, Paralegal Studies Program/Continuing Education
(718-960-1159)

Vanessa Gonzalez, Campus Life
(718-960-8468)

Joette Reaves, Health Programs/Continuing Education
(718-960-8998)

Maritza Rivera, Office of Compliance and Diversity
(718-960-8111)

Michael Sullivan, Campus Life
(718-960-8535)

Sexual Harassment Coordinator

Dawn Ewing Morgan, Office of Compliance and Diversity
(718-960-8111)

Sexual Harassment Deputy Coordinators

Graciela Castex, Sociology and Social Work
(718-960-7864)

John Cirace, Economics & Accounting
(718-960-8388)

Vincent Zucchetto, Student Affairs
(718-960-8242)

Lehman College Records Policy

Prohibition on Submission of Fraudulent Admission Documents:

The submission of documents in support of applications for admission such as transcripts, diplomas, test scores, references, or the applications themselves, that are forged, fraudulent, altered from the original, materially incomplete, obtained under false pretenses, or otherwise deceptive (collectively referred to as fraudulent documents) is prohibited and is punishable by a five-year bar on applying for admission or five year suspension from CUNY. A second violation is punishable by a lifetime ban on applying for admission or expulsion from CUNY.

When fraudulent admissions documents are discovered prior to an applicant's enrollment, sanctions will be imposed centrally. A first offense will be punishable by a five-year bar on applying for admission and a second offense will result in a lifetime ban. The accused applicant will have the opportunity to appeal to the Vice Chancellor for Student Development.

If the fraudulent admissions document is discovered after the student completes registration or begins classes at a college, the student shall be suspended for five years with the right to appeal through the college student disciplinary process. A second offense results in expulsion.

If the fraudulent admissions document is discovered after the student has already graduated, the graduate shall be notified in writing and shall be entitled to a disciplinary hearing under Article 15 of the Board Bylaws. If the disciplinary committee sustains the charges, the committee may impose a five-year

suspension and in addition recommend the revocation of the degree. A second violation results in expulsion. Any recommendation to revoke a degree is subject to the approval by the Board of Trustees after considering the recommendation of the faculty of the college.

Family Educational Rights and Privacy Act (F.E.R.P.A)

LEHMAN COLLEGE, THE CITY UNIVERSITY OF NEW YORK NOTIFICATION OF STUDENT RIGHTS CONCERNING EDUCATION RECORDS AND DIRECTORY INFORMATION

The Family Educational Rights and Privacy Act (FERPA) gives students certain rights with respect to their education records.

The FERPA rights of students are:

(1) The right to inspect and review your education records.

Students should submit written requests that identify the specific record(s) they wish to inspect to Lehman's Office of the Registrar. If the records are not maintained by the Registrar, the Registrar will advise you of the correct official to whom the request should be addressed.

All requests shall be granted or denied in writing (which may be by e-mail) within 45 days of receipt. If the request is granted, you will be notified of the time and place where the records may be inspected. If the request is denied or not responded to within 45 days, you may appeal to the college's FERPA Appeals Officer. Additional information regarding the appeal procedures will be provided to you if a request is denied.

(2) The right to request amendment of your education records that you believe are inaccurate, misleading or otherwise in violation of your privacy rights under FERPA.

You may ask the college to amend a record that you believe is inaccurate, misleading or otherwise in violation of your privacy rights under FERPA. You should write to the college official responsible for the record, clearly identify the part of the record you want changed, and specify why it is inaccurate or misleading.

If the college decides not to amend the record as you request, the college will notify you of the decision and advise you of your right to a hearing before the college's FERPA Appeals Officer regarding the request for amendment. Additional information regarding the hearing procedures will be provided to you when notified of your right to a hearing.

(3) The right to consent before the college discloses personally identifiable information ("PII") contained in your education records, except to the extent that FERPA authorizes disclosure without consent.

One exception which permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by Lehman College or the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the college or University has contracted as its agent to provide a service instead of using University employees or officials; a person serving on the Board of Trustees; a student serving on an official committee, such as a disciplinary committee; or an individual assisting another school official in performing his or her tasks. A school official also includes a contractor, consultant, volunteer or other party to whom the college or the University has outsourced services or functions that would be otherwise performed by employees, as well as the State Comptroller and his or her agents and representatives for the purpose of conducting audits.

A school official has a legitimate educational interest if access is reasonably necessary in order to fulfill his or her professional responsibilities for the college.

Upon request, the college discloses education records without consent to officials of another college or school in which a student seeks or intends to enroll or has enrolled.

(4) The right to appeal the alleged denial of FERPA rights to the

General Counsel and Vice Chancellor for Legal Affairs
City University of New York
205 East 42nd Street
New York, New York 10017

(5) The right to file a complaint with the U.S. Department of Education concerning alleged failures by the college to comply with the requirements of FERPA. The name and address of the Office that administers FERPA are:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, D.C. 20202-5920

Directory Information: The college will make this "directory information" concerning current and former students available to parties having a legitimate interest in the information: name, attendance dates (semesters and sessions, not daily records), photograph, 8-digit student ID number (but only if the identifier cannot be used to gain access to education records except when used in conjunction with one or more factors that authenticate the user's identity), enrollment status (full or part-time, undergraduate or graduate, etc.), level of education (credits completed), degree enrolled for and major field of study, participation in official recognized activities and sports (teams), height and weight (for members of athletic

teams only), degrees, honors, and awards received. A current and former student's address, email address, and telephone number constitute directory information but disclosure of this information can only be made to employees of the University and its constituent colleges for the purpose of conducting legitimate University business, and it cannot be shared with individuals and organizations outside the University. By filing a form with the Registrar's Office, you may request that directory information not be released without your prior written consent. This form is available in the Registrar's Office and may be filed, withdrawn, or modified at any time.

Disclosure without prior consent: FERPA permits (and sometimes requires) the disclosure of PII from students' education records, without consent, if the disclosure meets certain conditions found in the FERPA regulations. Except for disclosures to school officials, disclosures related to some judicial orders or lawfully issued subpoenas, disclosures of directory information, and disclosures to the student, § 99.32 of FERPA regulations requires the institution to record the disclosure. Eligible students have a right to inspect and review the record of disclosures.

In addition to school officials with legitimate educational interests and officials at certain other schools, the college may, consistent with more detailed guidance and limitations from FERPA, disclose PII from the education records without obtaining prior written consent -

- To the U. S. Comptroller General, Attorney General, or Secretary of Education.
- To certain State and Local educational authorities.
- In connection with an audit or evaluation of Federal- or State-supported education programs, or for the enforcement of or compliance with Federal legal requirements that relate to those programs.
- In connection with financial aid for which the student has applied or which the student has received, if the information is necessary to determine eligibility for the aid, the amount of the aid, or the conditions of the aid, or to enforce the terms and conditions of the aid.
- To organizations conducting studies for, or on behalf of, the school, in order to: (a) develop, validate, or administer predictive tests; (b) administer student aid programs; or (c) improve instruction.
- To accrediting organizations to carry out their accrediting functions.
- To the student's parents if the student is a dependent for IRS tax purposes.
- To comply with a judicial order or lawfully issued subpoena.
- To appropriate officials in connection with a health or safety emergency.

- To a victim of an alleged perpetrator of a crime of violence or a non-forcible sex offense.
- To the general public, the final results of a disciplinary proceeding, if the college determines the student is an alleged perpetrator of a crime of violence or non-forcible sex offense and has committed a violation of the college's policies with respect to these allegations.
- To parents of a student under age 21 regarding the student's violation of any law or college rule governing the use or possession of alcohol or a controlled substance if the college determines the student committed a disciplinary violation.

Click Here for a FERPA Release Form.

A copy of CUNY's FERPA policy can be found at:

<https://www.cuny.edu/wp-content/uploads/sites/4/page-assets/about/administration/offices/legal-affairs/policies-procedures/FERPA-2.pdf>

New York State Education Law Section 224-A

Students unable because of religious beliefs to register or attend classes on certain days:

1. No person shall be expelled from or be refused admission as a student to an institution of higher education for the reason that he is unable, because of his religious beliefs, to register or attend classes or to participate in any examination, study, or work requirements on a particular day or days.
2. Any student in an institution of higher education who is unable, because of his religious beliefs, to attend classes on a particular day or days shall, because of such absence on the particular day or days, be excused from any examination or any study or work requirements.
3. It shall be the responsibility of the faculty and of the administrative officials of each institution of higher education to make available to each student who is absent from school, because of his religious beliefs, an equivalent opportunity to register for classes or make up any examination, study, or work requirements which he may have missed because of such absence on any particular day or days. No fees of any kind shall be charged by the institution for making available to the said student such equivalent opportunity.
4. If registration, classes, examinations, study, or work requirements are held on Friday after four o'clock post meridian or on Saturday, similar or makeup classes, examinations, study, work requirements, or opportunities shall be made available on other days, where it is possible and practicable to do so. No special fees shall be charged to

the student for these classes, examinations, study, or work requirements, or registration held on other days.

5. In effectuating the provisions of this section, it shall be the duty of the faculty and of the administrative officials of each institution of higher education to exercise the fullest measure of good faith. No adverse or prejudicial effects shall result to any student because of his availing himself of the provisions of this section.
6. Any student, who is aggrieved by the alleged failure of any faculty or administrative officials to comply in good faith with the provisions of this section, shall be entitled to maintain an action or proceeding in the Supreme Court of the county in which such institution of higher education is located for the enforcement of his rights under this section.

College Policies, Procedures and Regulations

Lehman College, like most institutions of higher learning, has regulations and policies governing academic standards and procedures, class attendance, final examinations, grade records, personal health, and conduct. They have been established in accordance with the *Bylaws* of the Board of Trustees, and on recommendation of the College's governance body - the Lehman College Senate. Specific policies and regulations are enumerated in this *Bulletin* and in the *Student Guide*, available in the Office of the Vice President of Student Affairs, the Division of Adult and Continuing Education, and the Office of Academic Advisement.

Conduct

Article XV, Section 15.1 (Conduct Standard Defined) of the *Bylaws* of the Board of Trustees of The City University of New York reads as follows:

Each student enrolled or in attendance in any college, school, or unit under the control of the Board and every student organization, publication, club, or chapter shall obey the laws of the City, State, and Nation, and the published rules, regulations, and orders of the Board of Higher Education and the duly established college authorities. Application to Lehman College constitutes acceptance of the foregoing provisions as well as of the detailed rules set forth in the Appendix.

The City University of New York Computer User Responsibilities

NOTE: *The City University of New York Computer User Responsibilities* is a statement originally prepared by the University's Computer Policy Committee. It underwent review by the University Faculty Senate and the CUNY Office of the Vice Chancellor for Legal Affairs.

Introduction

CUNY's computer resources are dedicated to the support of the university's mission of education, research, and public service. In furtherance of this mission, CUNY respects, upholds, and endeavors to safeguard the principles of academic freedom, freedom of expression, and freedom of inquiry.

CUNY recognizes that there is a concern among the university community that because information created, used, transmitted, or stored in electronic form is by its nature susceptible to disclosure, invasion, loss, and similar risks, electronic communications and transactions will be particularly vulnerable to infringements of academic freedom. CUNY's commitment to the principles of academic freedom and freedom of expression includes electronic information. Therefore, whenever possible, CUNY will resolve doubts about the need to access CUNY computer resources in favor of a user's privacy interest.

However, the use of CUNY computer resources, including for electronic transactions and communications, like the use of other university-provided resources and activities, is subject to the requirements of legal and ethical behavior. This policy is intended to support the free exchange of ideas among members of the CUNY community and between the CUNY community and other communities, while recognizing the responsibilities and limitations associated with such exchange.

Applicability

This policy applies to all users of CUNY computer resources, whether affiliated with CUNY or not, and whether accessing those resources on a CUNY campus or remotely. This policy supersedes the CUNY policy titled "CUNY Computer User Responsibilities" and any college policies that are inconsistent with this policy.

Definitions

"CUNY Computer resources" refers to all computer and information technology hardware, software, data, access and other resources owned, operated, or contracted by CUNY.

This includes, but is not limited to, personal computers, handheld devices, workstations, mainframes, minicomputers, servers, network facilities, databases, memory, and associated peripherals and software, and the applications they support, such as e-mail and access to the Internet. "E-mail" includes point-to-point messages, postings to newsgroups and listservs, and other electronic messages involving computers and computer networks.

Rules for Use of CUNY Computer Resources

1. **Authorization.** Users may not access a CUNY computer resource without authorization or use it for purposes

beyond the scope of authorization. This includes attempting to circumvent CUNY computer resource system protection facilities by hacking, cracking, or similar activities, accessing or using another person's computer account, and allowing another person to access or use the user's account. This provision shall not prevent a user from authorizing a colleague or clerical assistant to access information under the user's account on the user's behalf while away from a CUNY campus or because of a disability. CUNY computer resources may not be used to gain unauthorized access to another computer system within or outside of CUNY. Users are responsible for all actions performed from their computer account that they permitted or failed to prevent by taking ordinary security precautions.

2. **Purpose.** Use of CUNY computer resources is limited to activities relating to the performance by CUNY employees of their duties and responsibilities. For example, use of CUNY computer resources for private commercial or not-for-profit business purposes, for private advertising of products or services, or for any activity meant solely to foster personal gain, is prohibited. Similarly, use of CUNY computer resources for partisan political activity is also prohibited.

Except with respect to CUNY employees other than faculty, where a supervisor has prohibited it in writing, incidental personal use of computer resources is permitted so long as such use does not interfere with CUNY operations, does not compromise the functioning of CUNY computer resources, does not interfere with the user's employment or other obligations to CUNY, and is otherwise in compliance with this policy.

3. **Compliance with Law.** CUNY computer resources may not be used for any purpose or in any manner that violates CUNY rules, regulations, or policies, or federal, state, or local law. Users who engage in electronic communications with persons in other states or countries or on other systems or networks may also be subject to the laws of those other states and countries, and the rules and policies of those other systems and networks. Users are responsible for ascertaining, understanding, and complying with the laws, rules, policies, contracts, and licenses applicable to their particular use.

Examples of applicable federal and state laws include the laws of libel, obscenity, and child pornography, as well as the following:

Family Educational Rights and Privacy Act
Electronic Communications Privacy Act
Computer Fraud and Abuse Act
New York State Freedom of Information Law
New York State Law with respect to the confidentiality of library records

Examples of applicable CUNY rules and policies include the following:

Sexual Harassment Policy
Policy on Maintenance of Public Order
Web Site Privacy Policy
Gramm-Leach-Bliley Information Security Program

University Policy on Academic Integrity
Information Security policies

4. **Licenses and Intellectual Property.** Users of CUNY computer resources may use only legally obtained, licensed data or software and must comply with applicable licenses or other contracts, as well as copyright, trademark, and other intellectual property laws.

Much of what appears on the internet and/or is distributed via electronic communication is protected by copyright law, regardless of whether the copyright is expressly noted. Users of CUNY computer resources should generally assume that material is copyrighted unless they know otherwise, and not copy, download, or distribute copyrighted material without permission unless the use does not exceed fair use as defined by the federal Copyright Act of 1976. Protected material may include, among other things, text, photographs, audio, video, graphic illustrations, and computer software.

5. **False Identity and Harassment.** Users of CUNY computer resources may not employ a false identity, mask the identity of an account or computer, or use computer resources to engage in abuse of others, such as sending harassing, obscene, threatening, abusive, deceptive, or anonymous messages within or outside CUNY.
6. **Confidentiality.** Users of CUNY computer resources may not invade the privacy of others by, among other things, viewing, copying, modifying, or destroying data or programs belonging to or containing personal or confidential information about others, without explicit permission to do so. CUNY employees must take precautions to protect the confidentiality of personal or confidential information encountered in the performance of their duties or otherwise.
7. **Integrity of Computer Resources.** Users may not install, use, or develop programs intended to infiltrate or damage a computer resource, or which could reasonably be expected to cause, directly or indirectly, excessive strain on any computing facility. This includes, but is not limited to, programs known as computer viruses, Trojan horses, and worms. Users should consult with the IT director at their college before installing any programs that they are not sure are safe.
8. **Disruptive Activities.** CUNY computer resources must not be used in a manner that could reasonably be expected to cause or does cause, directly or indirectly, unwarranted or unsolicited interference with the activity of other users. This provision explicitly prohibits chain letters, virus hoaxes, or other intentional e-mail transmissions that disrupt normal e-mail service. Also prohibited are spamming, junk mail or other unsolicited mail that is not related to CUNY business and is sent without a reasonable expectation that the recipient would welcome receiving it, as well as the inclusion on e-mail lists of individuals who have not requested membership on the lists, other than the inclusion of members of the CUNY community on lists

related to CUNY business. CUNY has the right to require users of CUNY computer resources to limit or refrain from other specific uses if, in the opinion of the IT director at the user's college, such use interferes with efficient operations of the system, subject to appeal to the President or, in the case of central office staff, to the Chancellor.

9. **CUNY Names and Trademarks.** CUNY names, trademarks, and logos belong to the university and are protected by law. Users of CUNY computer resources may not state or imply that they speak on behalf of CUNY or use a CUNY name, trademark, or logo without authorization to do so. Affiliation with CUNY does not, by itself, imply authorization to speak on behalf of CUNY.
10. **Security.** CUNY employs various measures to protect the security of its computer resources and of users' accounts. However, CUNY cannot guarantee such security. Users are responsible for engaging in safe computing practices, such as guarding and not sharing their passwords, changing passwords regularly, logging out of systems at the end of use, and protecting private information, as well as for following CUNY's Information Security policies and procedures. Users must report incidents of Information Security policy non-compliance or other security incidents to CUNY's Chief Information Officer and Chief Information Security Officer, and the IT director at the affected user's college.
11. **Filtering.** CUNY reserves the right to install spam, virus, and spyware filters and similar devices if necessary in the judgment of CUNY's Office of Information Technology or a college IT director to protect the security and integrity of CUNY computer resources. Notwithstanding the foregoing, CUNY will not install filters that restrict access to e-mail, instant messaging, chat rooms, or websites based solely on content.
- Confidential Research Information.** Principal investigators and others who use CUNY computer resources to store or transmit research information that is required by law or regulation to be held confidential or for which a promise of confidentiality has been given, are responsible for taking steps to protect confidential research information from unauthorized access or modification. In general, this means storing the information on a computer that provides strong access controls (passwords) and encrypting files, documents, and messages for protection against inadvertent or unauthorized disclosure while in storage or in transit over data networks. Robust encryption is strongly recommended for information stored electronically on all computers, especially portable devices such as notebook computers, Personal Digital Assistants (PDAs), and portable data storage (e.g., memory sticks) that are vulnerable to theft or loss, as well as for information transmitted over public networks. Software and protocols used should be reviewed and approved by CUNY's Office of Information Technology.
12. **CUNY Access to Computer Resources.** CUNY does not routinely monitor, inspect, or disclose individual usage of its computer resources without the user's consent. In

most instances, if the university needs information located in a CUNY computer resource, it will simply request it from the author or custodian. However, CUNY IT professionals and staff do regularly monitor general usage patterns as part of normal system operations and maintenance and might, in connection with these duties, observe the contents of web sites, e-mail, or other electronic communications. Except as provided in this policy or by law, these individuals are not permitted to seek out contents or transactional information, or disclose or otherwise use what they have observed. Nevertheless, because of the inherent vulnerability of computer technology to unauthorized intrusions, users have no guarantee of privacy during any use of CUNY computer resources or in any data in them, whether or not a password or other entry identification or encryption is used. Users may expect that the privacy of their electronic communications and of any materials contained in computer storage in any CUNY electronic device dedicated to their use will not be intruded upon by CUNY except as outlined in this policy.

CUNY may specifically monitor or inspect the activity and accounts of individual users of CUNY computer resources, including individual login sessions, e-mail, and other communications, without notice, in the following circumstances:

- a. when the user has voluntarily made them accessible to the public, as by posting to Usenet or a web page;
- b. when it is reasonably necessary to do so to protect the integrity, security, or functionality of CUNY or other computer resources, as determined by the college chief information officer or his or her designee, after consultation with CUNY's chief information officer or his or her designee;
- c. when it is reasonably necessary to diagnose and resolve technical problems involving system hardware, software, or communications, as determined by the college chief information officer or his or her designee, after consultation with CUNY's chief information officer or his or her designee;
- d. when it is reasonably necessary to protect CUNY from liability, or when failure to act might result in significant bodily harm, significant property loss or damage, or loss of significant evidence, as determined by the college president or a vice president designated by the president, after consultation with the Office of General Counsel and the Chair of the University Faculty Senate (if a CUNY faculty member's account or activity is involved) or Vice Chair if the Chair is unavailable;
- e. when there is a reasonable basis to believe that CUNY policy or federal, state, or local law has been or is being violated, as determined by the college president or a vice president designated by the president, after consultation with the Office of General Counsel and the Chair of the University Faculty Senate (if a CUNY faculty member's account or activity is involved) or Vice Chair if the Chair is unavailable;
- f. when an account appears to be engaged in unusual or unusually excessive activity, as indicated by the monitoring

of general activity and usage patterns, as determined by the college president or a vice president designated by the president and the college chief information officer or his or her designee, after consultation with CUNY's chief information officer or his or her designee, the Office of General Counsel, and the Chair of the University Faculty Senate (if a CUNY faculty member's account or activity is involved) or Vice Chair if the Chair is unavailable; or

g. as otherwise required by law.

In those situations in which the Chair of the University Faculty Senate is to be consulted prior to monitoring or inspecting an account or activity, the following procedures shall apply: (i) the college president shall report the completion of the monitoring or inspection to the Chair and the CUNY employee affected, who shall also be told the reason for the monitoring or inspection, except where specifically forbidden by law; and (ii) if the monitoring or inspection of an account or activity requires physical entry into a faculty member's office, the faculty member shall be advised prior thereto and shall be permitted to be present to observe, except where specifically forbidden by law. A CUNY employee may apply to the General Counsel for an exemption from some or all of the circumstances under which CUNY may inspect and monitor computer resource activity and accounts, pursuant to subparagraphs (a)-(f) above, with respect to a CUNY computer resource used solely for the collection, examination, analysis, transmission, or storage of confidential research data. In considering such application, the General Counsel shall have the right to require the employee to affirm in writing that the computer resource will be used solely for the confidential research. Any application for exemption should be made prior to using the computer resource for the confidential research.

CUNY, in its discretion, may disclose the results of any general or individual monitoring or inspection to appropriate CUNY personnel or agents, or law enforcement or other agencies. The results may be used in college disciplinary proceedings, discovery proceedings in legal actions, or otherwise as is necessary to protect the interests of the University. In addition, users should be aware that CUNY may be required to disclose to the public under the New York State Freedom of Information Law communications made by means of CUNY computer resources in conjunction with University business. Any disclosures of activity of accounts of individual users to persons or entities outside of CUNY, whether discretionary or required by law, shall be

approved by the General Counsel and shall be conducted in accordance with any applicable law. Except where specifically forbidden by law, CUNY employees subject to such disclosures shall be informed promptly after the disclosure of the actions taken and the reasons for them.

The Office of General Counsel shall issue an annual statement of the instances of account monitoring or inspection that fall within categories (d) through (g) above. The statement shall indicate the number of such instances and the cause and result of each. No personally identifiable data shall be included in this statement.

See CUNY's Web Site Privacy Policy for additional information regarding data collected by CUNY from visitors to the CUNY website at www.cuny.edu.

13. **Enforcement.** Violation of this policy may result in suspension or termination of an individual's right of access to CUNY computer resources, disciplinary action by appropriate CUNY authorities, referral to law enforcement authorities for criminal prosecution, or other legal action, including action to recover civil damages and penalties.

Violations will normally be handled through the university disciplinary procedures applicable to the relevant user. For example, alleged violations by students will normally be investigated, and any penalties or other discipline will normally be imposed, by the Office of Student Affairs.

CUNY has the right to temporarily suspend computer use privileges and to remove from CUNY computer resources material it believes violates this policy, pending the outcome of an investigation of misuse or finding of violation. This power may be exercised only by the President of each college or the Chancellor.

14. **Additional Rules.** Additional rules, policies, guidelines and/or restrictions may be in effect for specific computers, systems, or networks, or at specific computer facilities at the discretion of the directors of those facilities. Any such rules which potentially limit the privacy or confidentiality of electronic communications or information contained in or delivered by or over CUNY computer resources will be subject to the substantive and procedural safeguards provided by this policy.

15. **Disclaimer.** CUNY shall not be responsible for any damages, costs, or other liabilities of any nature whatsoever with regard to the use of CUNY computer resources. This includes, but is not limited to, damages caused by unauthorized access to CUNY computer resources, data loss, or other damages resulting from delays, non-deliveries, or service interruptions, whether or not resulting from circumstances under the CUNY's control.

Users receive and use information obtained through CUNY computer resources at their own risk. CUNY makes no warranties (expressed or implied) with respect to the use of CUNY computer resources. CUNY accepts no responsibility for the content of web

pages or graphics that are linked from CUNY web pages, for any advice or information received by a user through use of CUNY computer resources, or for any costs or charges incurred by a user as a result of seeking or accepting such advice or information. CUNY reserves the right to change this policy and other related policies at any time. CUNY reserves any rights and remedies that it may have under any applicable law, rule, or regulation. Nothing contained in this policy will in any way act as a waiver of such rights and remedies.

Freedom of Speech

Freedom of speech is an essential tradition of any academic community. All members of the Lehman community must be vigilant in exercising their rights of expression so as not to preclude other persons' guaranteed right to give and receive expression as part of the deliberative process of the academic community. Preservation of this right on campus requires the scrupulous use of means of communication. Public-address systems and all other amplification devices are prohibited.

Smoking

Smoking is prohibited in all buildings owned, leased, or operated by the City University of New York. Effective no later than September 4, 2012, the following shall be prohibited at The City University of New York: (1) the use of tobacco on all grounds and facilities under CUNY jurisdiction, including indoor locations and outdoor locations such as playing fields; entrances and exits to buildings; and parking lots; (2) tobacco industry promotions, advertising, marketing, and distribution of marketing materials on campus properties; and (3) tobacco industry sponsorship of athletic events and athletes.

Drug and Alcohol Usage

The use of illegal drugs will subject the individual to the penalties provided by law. Individual problems with drugs may be discussed in strict confidence with the counseling faculties of the College. The use of legal drugs that are nevertheless injurious to the health is not condoned. The use of alcohol by anyone under 21 years of age is illegal and prohibited.

Identification Cards

Identification cards, issued by the College, must be carried at all times. Students are required to present their I.D. cards upon the request of any College official. Any guest of a student visiting the campus must obtain a pass from Campus Security (The APEX, Room 109) and must present it upon request.

Attendance and Absences

Students in basic skills courses are required to attend classes. Students in all other courses are expected to attend classes regularly, and instructors are required to record attendance for grading and counseling purposes. Individual instructors, as well as departments or degree programs, may establish

specific attendance requirements. Instructors have the right to weigh attendance and class participation in determining grades. It is the student's responsibility to ascertain the effect attendance may have on the grade in a course. Students receiving financial aid must be certified as attending classes regularly for continuing eligibility.

Petitioning

For a petition to be circulated by any student or student group, two copies shall be filed with the Office of Student Activities. All copies of the petition must bear the name of the group or groups circulating the petition.

Solicitation on Campus

No student or nonstudent may use any part of the College buildings and grounds (including Bulletin boards) for soliciting or selling any merchandise or service without the express permission of the Vice President of Student Affairs. Lehman College and the City University of New York do not sponsor any products, merchandising schemes, or tours. Advertising appearing in student publications does not imply the sponsorship of the College.

Representing the College

No student or student organization may be a self-appointed representative of Lehman College or any division thereof, nor of The City University of New York.

Extracurricular Activities and Programs

Group Activities

The College offers a wide range of extracurricular activities and programs. These include departmental, religious, social, political, and athletic activities; creative events, such as art displays and literary, musical, and dramatic performances; and extracurricular lectures on varied topics. Students publish newspapers and other publications and have the opportunity to join a variety of clubs.

Policy on Guest Speakers

Student groups have the right to hear speakers of their choice in accordance with the rules set by the College. It may not, however, be assumed that speakers invited by students represent the views of the College.

Student Government

Student government consists of The Campus Association for Student Activities (C.A.S.A.), which plans and administers programs and allocates funds for student groups, and the Student Conference, which represents students' interests in the Lehman College Senate.

Participation in College Governance

Students shall comprise a permanent one-third of the total membership of the Senate, based upon combining the total number of voting faculty and voting administration representatives. Senate meetings are open to all students and staff at the College. Students are also represented on College committees. The student senators comprise the Student Conference.

Notification of Student Immunization Requirements

Students who do not submit proof of measles, mumps, and rubella (M.M.R.) immunization or who fail to return the meningococcal meningitis response form within a statutory grace period shall be prohibited from attending the institution. For additional information, contact the Student Health Center located in the T-3 Building, Room 118 at the following phone number: 718-960-8900.

Public Health Law 2165 requires that postsecondary students be immunized against measles, mumps, and rubella (M.M.R.).

All registered full-time students and part-time students born on or after January 1, 1957 who are enrolled for at least six, but fewer than twelve semester hours (or equivalent) per semester in an approved degree program or registered certificate program must submit proof of M.M.R. immunization. Students may be exempt from the required M.M.R. immunizations for religious or medical reasons. To qualify for a religious exception, students must submit a signed statement, or in the event the student is a minor (under 18), a signed statement from their parent or guardian, that they hold sincere and genuine religious beliefs that prohibit immunization. To qualify for a medical exception, students must submit a written statement from a licensed physician or nurse practitioner indicating that such immunization may be detrimental to their health.

Public Health Law 2167 requires that postsecondary institutions provide written information about meningococcal meningitis to its students and that students complete, sign, and return a meningococcal meningitis response form. Public Health Law 2167 does **not** require that students be immunized against meningitis.

Public Health Law 2167 requires colleges to distribute written information about meningococcal meningitis disease and vaccination and students to complete, sign, and return to the college, a meningococcal meningitis response form that: (a) confirms that the college has provided the information about meningococcal meningitis; and (b) indicates that either: (1) the student has received immunization against meningococcal meningitis within the 10 years preceding the date of the

response form; or (2) the student has decided against receiving the vaccination. This law applies to students who are enrolled in at least six semester hours (or the equivalent) per semester. No student may be exempt from receiving information or returning the response form.

Freedom of Information Law Notice

Requests to inspect public records at the college should be made to the Records Access Officer at Special.Counsel@lehman.cuny.edu. Public records are available for inspection and copying by appointment only at a location to be designated. You have a right to appeal a denial of a request for access to records to the CUNY General Counsel and Vice Chancellor for Legal Affairs. Copies of the CUNY Procedures for Public Access to Public Records Pursuant to Article 6 of the Public Officers Law and the appeal form are available at the Reference Desk of the Library and on the College website.

CUNY Policy on Academic Integrity

Academic Dishonesty is prohibited in The City University of New York and is punishable by penalties, including failing grades, suspension, and expulsion, as provided herein.

Definitions and Examples of Academic Dishonesty

Cheating is the unauthorized use or attempted use of material, information, notes, study aids devices, or communication during an academic exercise.

The following are some examples of cheating, but by no means is it an exhaustive list:

- Copying from another student during an examination or allowing another to copy your work.
- Unauthorized collaboration on a take-home assignment or examination.
- Using notes during a closed-book examination.
- Taking an examination for another student, or asking or allowing another student to take an examination for you.
- Changing a graded exam and returning it for more credit.
- Submitting substantial portions of the same paper to more than one course without consulting with each instructor.
- Preparing answers or writing notes in a blue book (exam booklet) before an examination.
- Allowing another to research and write assigned papers or do assigned projects, including use of commercial term paper services.
- Giving assistance to acts of academic misconduct/dishonesty.
- Fabricating data (all or in part).
- Submitting someone else's work as your own.

- Unauthorized use during an examination of any electronic devices, such as cell phones, palm pilots, computers, or other technologies to retrieve or send information.

Plagiarism is the act of presenting another person's ideas, research or writings as your own.

The following are some examples of plagiarism, but by no means is it an exhaustive list:

- Copying another person's actual words without the use of quotation marks and footnotes attributing the words to their source.
- Presenting another person's ideas or theories in your own words without acknowledging the source.
- Using information that is not common knowledge without acknowledging the source.
- Failing to acknowledge collaborators on homework and laboratory assignments.

Internet Plagiarism includes submitting downloaded term papers or parts of term papers, paraphrasing or copying information from the Internet without citing the source, and "cutting & pasting" from various sources without proper attribution.

Obtaining Unfair Advantage is any activity that intentionally or unintentionally gives a student an unfair advantage in his/her academic work over another student.

The following are some examples of obtaining an unfair advantage, but by no means it is an exhaustive list:

- Stealing, reproducing, circulating, or otherwise gaining advance access to examination materials.
- Depriving other students of access to library materials by stealing, destroying, defacing, or concealing them.
- Retaining, using, or circulating examination materials which clearly indicate that they should be returned at the end of the exam.
- Intentionally obstructing or interfering with another student's work.

Falsification of Records and Official Documents

The following are some examples of falsification, but by no means is it an exhaustive list:

- Forging signatures of authorization.
- Falsifying information on an official academic record.
- Falsifying information on an official document, such as a grade report, letter of permission, drop/add form, ID card, or other College document.

Procedures for Imposition of Sanctions for Violations of CUNY Policy on Academic Integrity

Introduction

As a legal matter, in disciplining students for violations of policies of academic integrity, CUNY, as a public institution, must conform to the principles of due process mandated by the Fourteenth Amendment to the United States Constitution - generally speaking, to provide notice of the charges and some opportunity to be heard. In the context of court-litigated violations, questions as to how much and what kind of process was "due" turn on the court's judgment whether the decision on culpability was "disciplinary" (a question of fact) or "academic" (a question of the instructor's expert judgment). This distinction has proved difficult to apply on campus. Accordingly, these procedures provide for alternative approaches depending on the severity of the sanction(s) being sought. If the instructor desires solely an "academic" sanction, that is, a grade reduction, less process is due than if a "disciplinary" sanction, such as suspension or expulsion, is sought.

A faculty member who suspects that a student has committed a violation of the CUNY or the College Academic Integrity Policy shall review with the student the facts and circumstances of the suspected violation whenever possible. The decision whether to seek an academic sanction only, rather than a disciplinary sanction or both types of sanctions, will rest with the faculty member in the first instance, but the college retains the right to bring disciplinary charges against the student. Among the factors the College should consider in determining whether to seek a disciplinary sanction are whether the student has committed one or more prior violations of the Academic Integrity Policy and mitigating circumstances, if any. It is strongly recommended that instance of suspected violation should be reported to the Academic Integrity Official on a form provided by the College. Among other things, this reporting will allow the College to determine whether it wishes to seek a disciplinary sanction even where the instructor may not wish to do so.

Procedures in Cases Where the Instructor Seeks an Academic Sanction Only

1. Student Accepts Guilt and Does Not Contest the Academic Sanction

If the faculty member wishes to seek only an academic sanction (i.e., a reduced grade¹ only), and the student does not contest either his/her guilt or the particular reduced grade the faculty member has chosen, then the student shall be given the reduced grade, unless the College decides to seek a disciplinary sanction. The reduced grade may apply to the particular assignment as to which the violation occurred or to the course grade, at the faculty member's discretion.

2. Student Denies Guilt and/or Contests the Academic Sanction

If the student denies guilt or contests the particular grade awarded by the faculty member, then the matter shall be handled using the College's grade appeals process, including departmental grading committees where applicable, or the Academic Integrity Committee. In either case, the process must, at a minimum, provide the student with an opportunity to be heard and to present evidence.

Procedures in Cases Where a Disciplinary Sanction Is Sought

If a faculty member suspects a violation and seeks a disciplinary sanction, the faculty member shall refer the matter to the College's Academic Integrity Official using the Faculty Report form, to be adjudicated by the College's Faculty-Student Disciplinary Committee under Article 15 of the CUNY Bylaws. As provided for therein, the Faculty-Student Disciplinary Committee may, among other things, investigate, conciliate, or hear evidence on cases in which disciplinary charges are brought.² Under certain circumstances, College officials other than the Academic Integrity Official may seek disciplinary sanctions following the procedures outlined above. If a reduced grade is also at issue, then that grade should be held in abeyance, pending the Faculty-Student Disciplinary Committee's action.

Procedures in Cases in Which Both a Disciplinary and an Academic Sanction Are Sought

If a faculty member or the College seeks to have both a disciplinary and an academic sanction imposed, it is not advisable to proceed on both fronts simultaneously lest inconsistent results ensue. Thus, it is best to begin with the disciplinary proceeding seeking imposition of a disciplinary sanction and await its outcome before addressing the academic sanction. If the Faculty-Student Disciplinary Committee finds that the alleged violation occurred, then the faculty member may reflect that finding in the student's grade. If the Faculty-Student Disciplinary Committee finds that the alleged violation did not occur, then no sanction of any kind may be imposed. The decision whether to pursue both types of sanctions will ordinarily rest with the faculty member.

Reporting Requirements

1. By the Faculty Member to the Academic Integrity Official
In cases where a violation of academic integrity has been found to have occurred (whether by admission or a fact-finding process), the faculty member should promptly file with the Academic Integrity Official a report of the adjudication in writing on a Faculty Report form provided by the College as described above. The Academic Integrity Official shall maintain a confidential file for each student about whom a suspected or adjudicated violation is reported. If either the grade appeals process or the Faculty-

Student Disciplinary Committee finds that no violation occurred, the Academic Integrity Official shall remove and destroy all material relating to that incident from the student's confidential academic integrity file. Before determining what sanction(s) to seek, the faculty member or the Academic Integrity Official may consult the student's confidential academic integrity file, if any, to determine whether the student has been found to have previously committed a violation of the Academic Integrity Policy, the nature of the infraction, and the sanction imposed or action taken.

2. By the Academic Integrity Official to the Faculty Member Where a matter proceeds to the Faculty-Student Disciplinary Committee, the Academic Integrity Official shall promptly report its resolution to the faculty member and file a record of the resolution in the student's confidential academic integrity file, unless, as indicated above, the suspected violation was held to be unfounded, in which case all reporting forms concerning that suspected violation shall be destroyed.

Procedures for Handling Student Complaints about Faculty Conduct in Academic Settings

1. **Introduction.** The University and its Colleges have a variety of procedures for dealing with student-related issues, including grade appeals, academic integrity violations, student discipline, disclosure of student records, student elections, sexual harassment complaints, disability accommodations, and discrimination. One area not generally covered by other procedures concerns student complaints about faculty conduct in the classroom or other formal academic settings. The University respects the academic freedom of the faculty and will not interfere with it as it relates to the content or style of teaching activities. Indeed, academic freedom is and should be of paramount importance. At the same time the University recognizes its responsibility to provide students with a procedure for addressing complaints about faculty treatment of students that are not protected by academic freedom and are not covered by other procedures. Examples might include incompetent or inefficient service, neglect of duty, physical or mental incapacity, and conduct unbecoming a member of the staff.
2. **Determination of Appropriate Procedure.** If students have any question about the applicable procedure to follow for a particular complaint, they should consult with the chief student affairs officer. In particular, the chief student affairs officer should advise a student if some other procedure is applicable to the type of complaint the student has.
3. **Informal Resolution.** Students are encouraged to attempt to resolve complaints informally with the faculty member or to seek the assistance of the department chairperson or campus ombudsman to facilitate informal resolution.
4. **Formal Complaint.** If the student does not pursue informal resolution, or if informal resolution is unsuccessful, the student may file a written complaint with

the department chairperson or, if the chairperson is the subject of the complaint, with the academic dean or a senior faculty member designated by the college president. (This person will be referred to below as the "Fact Finder.")

5. The complaint shall be filed within 30 calendar days of the alleged conduct unless there is good cause shown for delay, including but not limited to delay caused by an attempt at informal resolution. The complaint shall be as specific as possible in describing the conduct complained of.
6. The Fact Finder shall promptly send a copy to the faculty member about whom the complaint is made, along with a letter stating that the filing of the complaint does not imply that any wrongdoing has occurred and that a faculty member must not retaliate in any way against a student for having made a complaint. If either the student or the faculty member has reason to believe that the department chairperson may be biased or otherwise unable to deal with the complaint in a fair and objective manner, he or she may submit to the academic dean or the senior faculty member designated by the college president a written request stating the reasons for that belief; if the request appears to have merit, that person may, in his or her sole discretion, replace the department chairperson as the Fact Finder.
7. The Fact Finder shall meet with the complaining student and faculty member, either separately or together, to discuss the complaint and to try to resolve it. The Fact Finder may seek the assistance of the campus ombudsman or other appropriate person to facilitate informal resolution.
8. If resolution is not possible, and the Fact Finder concludes that the facts alleged by the student, taken as true and viewed in the light most favorable to the student, establish that the conduct complained of is clearly protected by academic freedom, he or she shall issue a written report dismissing the complaint and setting forth the reasons for dismissal and send a copy to the complaining student, the faculty member, the chief academic officer, and the chief student affairs officer. Otherwise, the Fact Finder shall conduct an investigation. The Fact Finder shall separately interview the complaining student, the faculty member, and other persons with relevant knowledge and information and shall also consult with the chief student affairs officer and, if appropriate, the college ombudsman. The Fact Finder shall not reveal the identity of the complaining student and the faculty member to others except to the extent necessary to conduct the investigation. If the Fact Finder believes it would be helpful, he or she may meet again with the student and faculty member after completing the investigation in an effort to resolve the matter. The complaining student and the faculty member shall have the right to have a representative (including a union representative, student government representative, or

attorney) present during the initial meeting, the interview, and any post-investigation meeting.

9. At the end of the investigation, the Fact Finder shall issue a written report setting forth his or her findings and recommendations, with particular focus on whether the conduct in question is protected by academic freedom, and send a copy to the complaining student, the faculty member, the chief academic officer, and the chief student affairs officer. In ordinary cases, it is expected that the investigation and written report should be completed within 30 calendar days of the date the complaint was filed.

10. **Appeals Procedure.** If either the student or the faculty member is not satisfied with the report of the Fact Finder, the student or faculty member may file a written appeal to the chief academic officer within 10 calendar days of receiving the report. The chief academic officer shall convene and serve as the chairperson of an Appeals Committee, which shall also include the chief student affairs officer, two faculty members elected annually by the faculty council or senate, and one student elected annually by the student senate. The Appeals Committee shall review the findings and recommendations of the report, with particular focus on whether the conduct in question is protected by academic freedom. The Appeals Committee shall not conduct a new factual investigation or overturn any factual findings contained in the report unless they are clearly erroneous. If the Appeals Committee decides to reverse the Fact Finder in a case where there has not been an investigation because the Fact Finder erroneously found that the alleged conduct was protected by academic freedom, it may remand to the Fact Finder for further proceedings. The committee shall issue a written decision within 20 calendar days of receiving the appeal. A copy of the decision shall be sent to the student, the faculty member, the department chairperson, and the president.

11. **Subsequent Action.** Following the completion of these procedures, the appropriate college official shall decide the appropriate action, if any, to take. For example, the department chairperson may decide to place a report in the faculty member's personnel file or the president may bring disciplinary charges against the faculty member. Disciplinary charges may also be brought in extremely serious cases even though the college has not completed the entire investigative process described above; in that case, the bringing of disciplinary charges shall automatically suspend that process. Any action taken by a college must comply with the bylaws of the University and the collective bargaining agreement between the University and the Professional Staff Congress.

12. **Campus Implementation.** Each campus shall implement these procedures and shall distribute them

widely to administrators, faculty members, and students and post them on the college website.

13. **Board Review.** During the spring 2009 semester, the Chancellery shall conduct a review of the experience of the colleges with these procedures, including consultation with administrators, faculty, and students, and shall report the results of that review to the Board of Trustees, along with any recommended changes.

¹ A reduced grade can be an "F," a "D-," or another grade that is lower than the grade that would have been given but for the violation.

² Typically, disciplinary sanctions would be sought in cases of the most egregious, or repeated, violations, for example: *infraction in ways similar to criminal activity (such as forging a grade form; stealing an examination from a professor or a university office; or forging a transcript); having a substitute take an examination or taking an examination for someone else; sabotaging another student's work through actions designed to prevent the student from successfully completing an assignment; dishonesty that affects a major or essential portion of work done to meet course requirements. [These examples have been taken from a list of violations compiled by Rutgers University.]*

The City University of New York Campus and Workplace Violence Policy

Policy Statement

The City University of New York (the "University" or "CUNY") is committed to the prevention of workplace violence and will respond promptly to any threats and/or acts of violence. For purposes of this Policy, Workplace Violence is defined as any physical assault or acts of aggressive behavior occurring where an employee performs any work-related duty in the course of his or her employment, including but not limited to:

1. An attempt or threat, whether verbal or physical, to inflict physical injury upon an employee;
2. Any intentional display of force which would give an employee reason to fear or expect bodily harm;
3. Intentional and wrongful physical contact with an employee without his or her consent that entails some injury;
4. Stalking an employee in a manner which may cause the employee to fear for his or her physical safety and health when such stalking has arisen through and in the course of employment.

Workplace Violence presents a serious occupational safety hazard to CUNY and its employees. The University will respond promptly to threats and/or acts of violence. All employees are responsible for helping to create an

environment of mutual respect and for assisting in maintaining a safe and secure work environment and will participate in the annual Workplace Violence Prevention Training Program. Individuals who violate this Policy may be removed from University property and are subject to disciplinary and/or personnel action up to and including termination, consistent with University policies, rules and collective bargaining agreements, and/or referral to law enforcement authorities for criminal prosecution

Complaints involving Workplace Violence will not be ignored and will be given the serious attention they deserve.² Employees are responsible for reporting any incidents of Workplace Violence of which they become aware. Such reports should be made to the employee's immediate supervisor or the Director of Public Safety on their campus.

The University, at the request of an employee or student, or at its own discretion, may prohibit members of the public, including family members, from seeing an employee or student on University property unless necessary to transact University-related business. This policy particularly applies when an employee or student anticipates that an act of violence may result from an encounter with said individual(s).³

Employee participation in the implementation of this Policy will be provided through their authorized employee representatives, who will be invited to participate in: (1) the annual physical risk assessment site evaluation(s) to determine the presence of risk factors which may place employees at risk of workplace violence; (2) the development and annual review of a Workplace Violence Prevention Program promulgated by each College for the implementation of the Policy; (3) the annual review of the Campus Workplace Violence Incidents Report prepared annually by each College; and (4) as appropriate, following a serious incident of Workplace Violence.

² *Complaints of sexual harassment are covered under the University's Policy Against Sexual Harassment.*

³ *Students are not directly covered by this Policy, but they should contact the Department of Public Safety to report concerns about workplace violence.*

Notice of Access to Campus Crime Statistics, the Campus Security Report, and Information on Registered Sex Offenders

The College Advisory Committee on Campus Safety will provide upon request all campus crime statistics as reported to the U.S. Department of Education, as well as the annual campus security report. The campus security report includes:

1. the campus crime statistics for the most recent calendar year and the two preceding calendar years;
2. campus policies regarding procedures and facilities to report criminal actions or other emergencies on campus;
3. policies concerning the security of and access to campus facilities;
4. policies on campus law enforcement;
5. a description of campus programs to inform students and employees about campus security procedures and practices and to encourage students and employees to be responsible for their own security and the security of others;
6. campus crime prevention programs;
7. policy concerning the monitoring through the police of criminal activity at off-campus locations of students organizations officially recognized by the college;
8. policies on illegal drugs, alcohol, and underage drinking;
9. where information provided by the State on registered sex offenders may be obtained (also see below); and
10. policies on campus sexual assault programs aimed at the prevention of sex offenses and procedures to be followed when a sex offense occurs. This information is maintained pursuant to the federal Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act.

The campus crime statistics and the annual campus security report are available at the Reference Desk of the library and the College website at www.lehman.edu. If you wish to be mailed copies of the campus crime statistics and the annual campus security report, contact Alicia Cruz, assistant director of public safety, at 718-960-8593, and copies will be mailed to you within 10 days. The U.S. Department of Education's website address for campus crime statistics is: ope.ed.gov/security/ (then input the name of the school).

In accordance with the federal Campus Sex Crimes Prevention Act, registered sex offenders now are required to register the name and address of any college at which he or she is a student or employee. The New York State Division of Criminal Justice maintains a registry of convicted sex offenders and informs the college's chief security (public safety) officer of the presence on campus of a registered sex offender as a student or employee. You may contact Alicia Cruz, assistant director of public safety, in Room 109 of the APEX (718-960-8593) to obtain information about Level 2 or Level 3 registered sex offenders on campus. To obtain information about Level 3 offenders, visit the Division's registry website at www.criminaljustice.ny.gov/nsor/ and then click on "Search for Level 3 Sex Offenders" or access the directory at the College's public safety department or police precinct. To obtain information about Level 2 offenders, contact the public safety department, the local police precinct

in which the offender resides or attends college, or the Division's sex offender registry at 800-262-3257.

Athletic Program Participation Notice

Lehman College files an annual report with the U.S. Secretary of Education on intercollegiate athletics that includes information on the participation of males and females on its teams, and the expenditures and revenues of those teams. Copies of the annual report on intercollegiate athletics are available at the reference desk of the Library.

Index

2013 CUNY General Education Program (Pathways)		
Required Courses.....	32	
2019-2021 Undergraduate Bulletin	3	
AAS - African American Studies	201	
About Lehman College.....	4	
Academic Advisement.....	434	
Academic Competitive Grant	20	
Academic Departments and Programs.....	64	
Academic Facilities	423	
Academic Freedom.....	462	
Academic Honors	47	
Academic Information and Advisement Center.....	45	
Academic Integrity	60	
Academic Organization	8	
Academic Policies	48	
Academic Services and Policies	45	
Academic Standards	62	
Academic Standards and Evaluation	434	
Academic Testing and Scholarships	434	
Academic Year	8	
ACC - Accounting.....	205	
Accounting Minor	121	
Accounting, B.A. (42 Credit Major).....	120	
Accounting, B.S. (63 Credit Major)	120	
ACE (Accelerate, Complete, and Engage).....	434	
Actuarial Mathematics Minor (12 credits).....	156	
ACU - Ancient Culture.....	206	
Admission of Students Who May Pose a Risk to the College	14	
Admission to Undergraduate Degree Programs.....	12	
Admissions	12	
Admissions and Recruitment.....	435	
Adult Degree Program.....	38	
Adult Degree Program (ADP)	67	
Advanced Courses (300-499)	64	
Advanced Imaging Labs.....	424	
African and African American Sequences.....	69	
Africana Studies	68	
Africana Studies Minor	68	
Africana Studies, B.A. (36 Credit Major)	68	
Aging.....	70	
Aging (Interdisciplinary Minor)	70	
Aid for Part-Time Study (APTS).....	18	
Alpha Code Subject Matter	64	
AMS - American Studies.....	208	
ANT - Anthropology	209	
Anthropology	70	
Anthropology (Physical), Biology, and Chemistry, B.S. (60-Credit Major)	73	
Anthropology / Biology / Chemistry	73	
Anthropology Minor.....	73	
Anthropology, B.A. (34-35 Credit Major).....	72	
APEX / Athletics	438	
Appendix	456	
Applicability.....	466	
Applicants for the Bachelor of Arts (B.A.) in Social Work	14	
Applicants for The Bachelor of Science (B.S.) in Nursing	14	
Application Fees	26	
Applying for Student Teaching.....	47	
Applying for Teacher Certification.....	47	
Applying to the Nursing Program.....	167	
Arabic.....	145	
Arabic Minor.....	145	
ARB - Arabic.....	215	
Area of Concentration (Major)	18	
Areas of Study within Sociology	195	
ARH - Art History	216	
Art	75	
ART - Art	219	
Art Gallery.....	438	
Art History Minor (12-15 credits)	78	
Art History, B.A. (30 Credit Major)	77	
Art, B.A. with a Specialization in Studio Art (42 Credit Major)	76	
Art, B.F.A. (60 Credit Major).....	75	
AST - Astronomy	223	
Athletic Program Participation Notice.....	476	
Attendance.....	52	
Attendance and Absences	469	
Attendance/Academic Requirements for Recipients of Student Financial Aid.....	17	
Audited Courses	52	
Baccalaureate Programs	28	
Bachelor (B.A. or B.S.) Degree in Liberal and Interdisciplinary Studies.....	67	
Bachelor of Arts-Master of Arts (B.A.-M.A.) Program.....	38	
BBA - Business Administration	224	
BBG - Botany	228	
Bilingual Education Assessments (BEA)	47	
BIO - Biology.....	229	
Biological Sciences	78	
Biology Minor	82	
Biology Teacher, Grades 7-12, B.A. (55 Credit Major).....	80	
Biology, B.S. (39-78 Credit Major)	78	
Board of Trustees	431	
Board of Trustees of the City University of New York Guidelines	22	
Board of Trustees Rules and Regulations on Campus Conduct.....	456	
Bronx Data Center.....	9	
Budget and Planning.....	437	
Bursar's Receipt.....	26	
Business Administration B.B.A. (46-47 Credits).....	121	
Business Administration Minor.....	122	
Business and Liberal Arts.....	92	
Business Law Minor.....	122	
Business Minor for Liberal Arts Majors	92	
Campus Facilities and Resources	423	
Campus Life	439	
Campus Planning and Facilities.....	437	
Candidates for a Second Undergraduate Degree.....	15	
Career Exploration & Development Center.....	439	
Career Preparation	118	
CED - Cooperative Education	235	

Center for Human Rights and Peace Studies	10	Courses in Political Science Grouped by Area of Study	187
Center for Theoretical and Computational Sciences	10	Courses that Involve a One-to-One Faculty/Student Relationship	66
CGI - Computer Graphic Imaging	240	Courses with Credit Equivalent Hours	26
Change of Grade Policy and Process	54	Credit and Course Loads	48
CHE - Chemistry	235	Credit by Departmental Examination	52
Chemistry	93	Credit by Examination	52
Chemistry Minor	95	Cumulative Index	53
Chemistry, B.A. (54-67 Credit Major)	93	CUNY Baccalaureate Program	38
Chemistry, B.S. (67-80 Credit Major)	94	CUNY Edge	439
CHI - Chinese	239	CUNY Institute for Health Equity	10
Child Care Center	439	CUNY Policy on Academic Integrity	471
Chinese	146	Curricular Program and Design	106
Chinese Minor	146	Curriculum at a Glance	71
CIS - Computer Information Systems	241	Curriculum in Latin American and Caribbean Studies	149
Classical Civilization and the Classical Tradition	105	Curriculum in Latino Studies	151
Classical Civilization and the Classical Tradition (Interdisciplinary Minor)	105, 139	Dance Minor	164
Classical Greek Minor	146	Dance, B.A. (42 Credit Major)	162
Classical Languages, Literatures, and Cultures	146	DAT - Data Science Methods and Applications	248
CLT - Comparative Literature	243	Data Science Methods and Applications	110
CMP - Computer Science	244	Data Science Methods and Applications (Interdisciplinary Minor)	110
College Accreditation and Affiliations	7	Dean's List	47
College Governance	7	DEC - Elementary Ed	248
College Latin Honors	48	Definitions	466
College Now for High School Students	16	Definitions and examples of academic dishonesty	60
College Now Program	435	Definitions and Examples of Academic Dishonesty	471
College Now Program Grading Policy	55	Degree Programs	7
College Policies, Procedures and Regulations	465	Degree Requirements	43
College Writing Requirement	123	Department Grade Requirement	171
Community College Graduates	13	Departmental Grade Appeals	53
Comparative Literature (Interdepartmental)	106	Departmental Grading Policy	129
Comparative Literature Minor	107	Departmental Honors	48
Comparative Literature, B.A. (30-31 Credit Major)	106	Departmental Minors	156
Compensatory Courses (090-110)	64	Developmental Disabilities Minor	137
Computer and Instructional Technology Facilities	423	DFN - Dietetics, Foods, and Nutrition	249
Computer Applications Minor (13-16 credits)	109	Dietetics, Foods, and Nutrition Minor	129
Computer Graphics and Imaging Minor (12 credits)	77	Dietetics, Foods, and Nutrition, B.S. (52.5-63.5 Credit Major)	127
Computer Graphics and Imaging, B.S. (58 Credit Major)	76	Digital Music Applications Minor	161
Computer Information Systems, B.S. (55-57 Credit Major)	108	Digital Technology and Electronics Certificate	176
Computer Science	107	Digital Technology and Electronics Minor (20 Credits)	176
Computer Science Minor (12 credits)	109	Disability Studies	112
Computer Science, B.A. (43-46 Credit Major)	108	Disability Studies (Interdisciplinary Minor)	112
Computer Science, B.S. (57-61 Credit Major)	108	Discontinued Grades & Grades Symbols	56
Confidentiality	460	Distinguished Professors	440
Consensual Relationships	462	DNC - Dance	251
Contact Law Enforcement Personnel Immediately	460	Drug and Alcohol Usage	469
Coordinated Freshman Programs (CFP) and English Composition and ESL	435	DST - Disability Studies	257
Corequisites	67	Early Childhood and Childhood Education	112
Counseling Center	439	Early Childhood and Childhood Education Minor	112
Counseling, Leadership, Literacy, and Special Education	109	Earth Science Certificate Program	114
Course Categories	64	Earth Science Minor	114
Course Levels	64	Earth Science, B.A. (30 Credits)	114
Course Offerings, Levels, and Codes	64	Earth, Environmental, and Geospatial Sciences	114
Course Repeat Rule for New York State Financial Aid	18	ECE - Early Childhood Ed	257
Courses	201	ECO - Economics	261
Courses for which the Topic May Vary from Semester to Semester (150-165, 250-265, 350-365, 450-465)	65	Economics and Business	118
		Economics and Mathematics, B.A. (57-58 Credit Major)	119, 155
		Economics Minor	120
		Economics, B.A. (35 Credit Major)	119

EDS - Special Education	264	Five-Year Combined B.S. /M.S. Dual Biology Degree	81
Election to Honor Societies	48	Flexible Grading Policy	48
Emeriti	450	For TAP/APTS Purposes Only	19
Employer Voucher	24	FRE - French	286
Enforcement	462	Freedom of Information Law Notice	471
ENG - English	264	Freedom of Speech	469
English	123	French	146
English, B.A. (40-44 Credit Major)	124	French Minor	147
Enrolled Students	22	French, B.A. (30-Credit Major)	146
Enrollment Services and Communications	435	French, Teacher Education 7-12 (30-Credit Major)	146
ENV - Environmental Science	271	Freshman Year Initiative	126
Environmental Health and Safety	437	Freshmen	12, 14
Environmental Policy (15-17 Credit Minor)	185	FTS - Film and Television Studies	290
Environmental Science Minor	117	Full-Time and Part-Time Matriculants	49
Environmental Science, B.S. Interdisciplinary Program	115	Full-Time Status	23
ENW - English Writing	272	FYI - Freshman Year Initiative	292
ePermit		GEH - Geography	292
Lehman College Credit for Attendance at Other Institutions	49	General Family and Consumer Studies Education	110
ESC - M&H School Ed	276	General Information	12
ESL - English as a Second Language	280	Generic Nursing, B.S. (75 Credit Major)	170
ESS - Special Topics	280	GEO - Geology	294
Estimated Other Expenses	26	Geographic Information Science Certificate	118
Event Planning and Reservations	438	Geographic Information Science Minor	118
Examination Requirements for Initial Certification	47	Geography, B.A. (28 Credit Major)	117
Examples of Sexual Harassment	461	GEP - Physical Geography	297
Excess Credit	49	GER - German	299
Exercise Science B.S. (60.5-68 Credit Major)	129	Geriatric Health Minor	137
Exercise Science Minor (12-20 Credits)	131	Global Studies (15 Credit Minor)	185
Experimental Course or Program	43	Golden Key International Honor Society	48
EXS - Exercise Science	282	Grade Appeals	54
External Examination Programs (AP, CLEP, CPEP)	52	Grade Glossary	55
Extracurricular Activities and Programs	470	Graduate Courses for Undergraduate Credit	52
F Repeat Policy	53	Graduate Curriculum	8
Faculty	440	Graduate Studies	435
Faculty and Administration	431	Graduation Requirements	63
Faculty Report Form	62	GRK - Greek	303
False and Malicious Accusations	462	Group Activities	470
Falsification of Records and Official Documents	471	Handling Sexual Assault, Stalking and Domestic and Intimate Partner Violence Complaints On-Campus	460
Family Educational Rights and Privacy Act (F.E.R.P.A)	463	HCU - Hebrew Culture	304
FCS - Family and Consumer Studies	283	HEA - Health	306
Federal Direct Student Loan	20	Health Careers Preparation Post-Baccalaureate Certificate Program (HealthBridge)	85, 98, 177
Federal Parent Loans for Undergraduate Students (PLUS)	21	Health Education and Promotion Minor	132
Federal Pell Grant	19	Health Education and Promotion, B.S. (48-57.5 Credit Major)	131
Federal Perkins Loan Program	21	Health Sciences	126
Federal Programs	19	Health Services Administration Minor	134
Federal Supplemental Educational Opportunity Grants (FSEOG)	20	Health Services Administration, B.S. (54 Credit Major)	132
Federal Work/Study Program	21	Health Services Internship	134
Field Placement Agencies	193	HEB - Hebrew	308
Fieldwork, Internship, Work Experience (270-280, 370-380, 470- 479)	64	Heritage and Foreign Transfer Students Policy	50
Film and TV Studies Minor	144	HIA - History of Ancient and Medieval Civilization	310
Film and TV Studies, B.A. (42-43 Credit Major)	143	HIE - History of Modern European	311
Final Examinations	53	HIN - Nursing	314
Finance Minor	122	HIS - History	314
Financial Aid	17, 435	History	138
Financial Operations	438	History (Teacher Education), B.A. (30 Credit Major)	138
Fine and Performing Arts Facilities	425	History Minor (12 credits)	139

History of Lehman College	4	Italian Minor.....	147
History, B.A. (36 Credit Major)	138	Italian Teacher Education 7-12, B.A. (30-Credit Major)	147
HIU - History of the United States	317	Italian, B.A. (30-Credit Major).....	147
HIW - Asian, African, and Latin-American History.....	320	Italian-American Studies	141
Honors in Comparative Literature	107	Italian-American Studies Minor	141
Honors in Health Education and Promotion.....	132	Italian-American Studies, B.A. (36 Credit Major).....	141
Honors in Health Services Administration.....	134	JAL - Japanese.....	334
Honors in Linguistics	153	Japanese.....	147
HPI - Health Professions Institute	322	Japanese Minor.....	147
HRP - Human Rights and Peace Studies	322	JCU - Japanese Culture.....	335
HSA - Health Services Administration..	323	Jointly Offered Courses	64
HSD - Health Sciences Core Courses....	325	Journalism and Media Studies	141
HUM - Humanities.....	325	Journalism Minor	143
Human Resource Management Minor... ..	123	Journalism, B.A. (42-43 Credit Major)..	142
Human Resources.....	438	JRN - Journalism.....	335
Human Rights and Peace Studies	139	LAC - Latin American and The Caribbean.....	336
Human Rights and Peace Studies (Interdisciplinary Minor).....	139	Languages and Literatures.....	144
Humanities Minor.....	105	LAT - Latin	342
I. Policy Statement	459	Latin American and Caribbean Studies, B.A. (36 Credit Major)	150
IAS - Italian American Studies.....	326	Latin American and Latino Studies	149
IBA - Individual BA Program	327	Latin American Studies Minor	151
Identification Cards	469	Latin Minor	146
IDW - World Classics	328	Latin, B.A. (36 Credit Major).....	146
II. Procedures For Reporting Incidents of Sexual Assault And Other Forms of Violence.....	459	Latino Studies Minor	152
III. Implementation of The Policies and Procedures Concerning Sexual Assault And Other Forms of Violence Against Students.....	461	Latino Studies, B.A. (36 Credit Major) .	152
Immunization Registration Requirement .	16	Law and Government (18 Credit Minor).....	186
Incomplete Courses	57	Legal Residents of New York State.....	23
Independent Extradisciplinary Studies	42	LEH - General Studies.....	344
Index Computation Formula.....	57	Lehman Center for the Performing Arts.....	425, 438
Individual Applicants for NYS Certification.....	158	Lehman College Administration.....	432
Individualized Bachelor of Arts Program	38	Lehman College Art Gallery	426
Institutional Research, Planning, and Data Analytics.....	432	Lehman College Records Policy.....	463
Instructional Support Services.....	436	Lehman Exchange Programs	42
Instructional Support Services Program	425	Lehman Stages	426, 438
Intercollegiate Athletics.....	427	Library	433
Interdepartmental Concentration in Anthropology, Biology, and Chemistry, B.S. (60-68 Credit Major).....	73, 82, 96	Linguistics (Interdisciplinary)	152
Interdisciplinary and Interdepartmental Programs.....	38	Linguistics Minor	153
Interdisciplinary Geriatric Team Option, B.S. (40 Credits)	137	Linguistics, B.A. (30 Credit Major).....	153
Intermediate Courses (200-299)	64	List of Alpha Codes.....	65
International Business Minor.....	123	List of Courses Relevant to the Linguistics Major.....	153
International Student Admissions	15	LNG - Linguistics.....	344
International Student and Scholar Office.....	430	LSP - Lehman Scholars Program.....	347
Internship and Field Experience Opportunities.....	41	LTS - Latino Studies	348
Intramural Sports.....	427	Macaulay Honors College	153
Introduction	466, 472	Macaulay Honors College at Lehman.....	37
Introductory Courses (100-199)	64	Macaulay Honors College at Lehman and Lehman Scholars Program	437
Inventory of Undergraduate Program Names and Degrees as Registered with the State of New York.....	38	Management Minor	123
IRI - Irish.....	328	Marketing Minor	123
Irish	147	MAT - Mathematics	350
Irish Minor	147	Material Fees	23
Irish Studies.....	140	Mathematics	154
Irish Studies (Interdisciplinary Minor) ..	140	Mathematics Minor (12 credits)	156
ITA - Italian.....	330	Mathematics, B.A. (43-47 Credit Major).....	155
Italian	147	MCS - Media Communications Studies	356
		Media Communications Studies Minor .	144
		Media Communications Studies, B.A.	144
		Media Relations and Publications.....	432

MES - Middle Eastern Studies	358	Office of the Registrar	45
Mexican and Mexican-American Studies Minor	151	OFFICE OF THE VICE PRESIDENT FOR ADMINISTRATION AND FINANCE	437
MHC - Macaulay Honors College	360	OFFICE OF THE VICE PRESIDENT FOR ENROLLMENT MANAGEMENT AND ASSOCIATE PROVOST	434
Middle and High School	41	OFFICE OF THE VICE PRESIDENT FOR INFORMATION TECHNOLOGY	439
Middle and High School Education	156	OFFICE OF THE VICE PRESIDENT FOR INSTITUTIONAL ADVANCEMENT	438
Middle Eastern Studies	156	Office of the Vice President for Student Affairs	426
Middle Eastern Studies (Interdisciplinary Minor)	156	OFFICE OF THE VICE PRESIDENT FOR STUDENT AFFAIRS	438
Mind-Body Wellness Minor	164	Officers of the City University of New York	431
Minors	109	Other Honor Societies	48
Miscellaneous Fees	27	Out-of-State Residents, Including Foreign Students	23
Mission Statement	6	Parking Fees	27
Mission, Vision, and Values Statements	6	Participation in College Governance	470
MIX - Mixtec	360	Pass/No Credit Option	58
MSH - Music History	360	Pathways to Student STEM Success Program	436
MSP - Music Performance	362	Payment Procedures	24
MST - Music Theory	364	Permanent Instructional Staff (Teaching)	440
Multimedia Performing Arts, B.F.A. (60 Credit Major)	164	Petitioning	470
Music Minor	161	PFP - Prefreshman Program	369
Music, B.S. (64 Credit Major)	158	PHE - Public Health	369
Music, Multimedia, Theatre, and Dance	158	PHI - Philosophy	369
National Science and Mathematics Access to Retain Talent (SMART) Grants	20	Phi Beta Kappa	48
New Student Programs	439	Philosophy	171
New Students	21	Philosophy Honors	173
New York Botanical Garden	425	Philosophy Minor (12-Credit)	173
New York State Aid to Native Americans	18	Philosophy, B.A. (27-Credit Major)	172
New York State Education Law Section 224-A	465	PHY - Physics	375
New York State Programs (HESC)	17	Physics and Astronomy	174
New York State Resident Tuition Rate	12	Physics Minor (19 Credits)	175
Non-Degree Students	15, 50	Physics, B.A. (38 Credit Major)	175
Non-Instructional Fees	26	Physics, B.S. (60 Credit Major)	175
Notice of Access to Campus Crime Statistics, the Campus Security Report, and Information on Registered Sex Offenders	475	POL - Political Science	378
Notice of Non-Discrimination	458	Policy on Guest Speakers	470
Notification of Student Immunization Requirements	470	Policy Statement	474
NSS - Natural and Social Sciences	366	Political Science	184
Number Code		Political Science (15 Credit Minor)	185
Course Level and Category	64	Political Science, B.A. (39-40 Credit Major)	184
NUR - Nursing	367	POR - Portuguese	384
Nursing	166	Post-Baccalaureate Certificate in Speech-Language Pathology	197
Obtaining an On-Campus Advocate	460	Pre 2013 General Education Program (Required Courses)	28
Office of Academic Personnel	432	Pre-Engineering Transfer Program	176
Office of Assessment and Educational Effectiveness	437	Prenursing	14
Office of International Programs and Community Engagement	432	Preparation for Secondary School Teaching	176
Office of Online Education	437	Preparation for Teaching	95
Office of Prestigious Awards	437	Prerequisites	67
Office of Research and Sponsored Programs	432	Presidential Scholar	48
OFFICE OF THE ASSOCIATE PROVOST FOR ACADEMIC PROGRAMS AND EDUCATIONAL EFFECTIVENESS	437	Procedures	462
Office of the Dean, School of Arts and Humanities	433	Procedures for Handling Student Complaints about Faculty Conduct in Academic Settings	473
Office of the Dean, School of Education	433	Procedures for Imposition of Sanctions	61
Office of the Dean, School of Health Sciences, Human Services, and Nursing	433	Procedures for Imposition of Sanctions for Violations of CUNY Policy on Academic Integrity	472
Office of the Dean, School of Natural and Social Sciences	434	Procedures in Cases in Which Both a Disciplinary and an Academic Sanction Are Sought	472
OFFICE OF THE PRESIDENT	432		
OFFICE OF THE PROVOST AND SENIOR VICE PRESIDENT FOR ACADEMIC AFFAIRS AND STUDENT SUCCESS	432		

Procedures in Cases Involving Only Academic Sanctions	61	Second Degree Students Transferring to Lehman.....	13
Procedures in Cases Where a Disciplinary Sanction Is Sought	472	Second Undergraduate Degree Program..	38
Procedures in Cases Where the Instructor Seeks an Academic Sanction Only.....	472	SEEK (Search for Education, Elevation and Knowledge) Program	436
Professional and Preprofessional Programs	40	SEEK (Search for Education, Evaluation, and Knowledge)	18
Professional Communications	188	Seek Immediate Medical Attention	460
Professional Communications Minor (12 credits)	188	Seek On-Campus Assistance	460
Prohibition on Submission of Fraudulent Admission Documents	14	Senior Citizens	16
Prohibition on Submission of Fraudulent Admission Documents: ..	463	Sexual Harassment Awareness and Intake Committee	462
PSY - Psychology.....	385	Sexual Harassment Coordinator	463
Psychology	189	Sexual Harassment Deputy Coordinators	463
Psychology Minor	190	Sigma XI	48
Psychology, B.A. (35-45 Credit Major). ..	189	Skill and Performance Courses (100-110, 200-210).....	64
Public Health Minor (15 Credits)	135	SLA - Slavic.....	395
Public Health, B.S. (48 Credit Major) ...	134	Smoking	469
Public Safety	438	SOC - Sociology.....	395
Quantitative Reasoning	437	Social Work.....	190
Quantitative Systems Biology (16 Credit Minor)	82	Social Work, B.A.	192
Readmission to Lehman College.....	14	Sociology.....	193
Reasoning and Exposition	190	Sociology Minor (15 credits).....	195
Reasoning and Exposition (Interdisciplinary Minor).....	190	Sociology, B.A. (35-41 Credit Major) ...	194
REC - Recreation.....	389	Solicitation on Campus.....	470
Received FIRST TAP Award 2010-2011 and Later	19	SPA - Spanish.....	401
Received FIRST TAP Award Before SUMMER 2006	19	Spanish	148
Received FIRST TAP Award in Summer 2006 or Later	19	Spanish Minor	149
Recital Hall.....	426	Spanish Minor for the Health Professions	149
Recreation Education, B.S. (40 Credit Major).....	135	Spanish Teacher Education 7-12, B.A. (36-Credit Major).....	148
Recreation Minor.....	136	Spanish, B.A. (36-Credit Major)	148
Recreation Opportunities.....	427	SPE - Speech.....	406
Refund of Tuition and Fees to TAP and other Financial Aid Recipients.....	26	Special Admission Categories	14
Refunds	24	Special Curriculum Programs.....	37
Refunds of Fees	24	Special Examination Fees.....	27
Refunds of Tuition.....	24	Special Program in Plant Sciences in Conjunction with the New York Botanical Garden.....	82
Regents Awards for Children of Deceased or Disabled Veterans.....	18	Special Provisions for Students in the Military.....	25
Registered Nurses.....	14	Special Studies	41
Registrar	436	Speech Pathology and Audiology, B.A. (47.5-Credit Major)	196
REH - Rehabilitation	391	Speech-Language-Hearing Sciences.....	195
Remedial and Developmental Courses (001-089)	64	Speech-Language-Hearing Sciences Minor	197
Reporting Requirements	472	SPS - Special Studies.....	407
Representing the College.....	470	SPV - Speech and Voice.....	407
Research Institutes and Community Resources	9	Statement of Credits for Dance Performing Groups	166
RN-BS Nursing, B.S. (37.5 Credit Major) (for Registered Nurses Only)	171	Strategic Persistence Initiatives	437
RN-BS Nursing, B.S. (37.5 Credit Major) Online Option (for Registered Nurses Only)	171	Student Classification.....	50
Rules for Use of CUNY Computer Resources.....	466	Student Disability Services.....	430, 439
RUS - Russian	392	Student Government.....	470
Russian	147	Student Health Center.....	439
Russian Area Studies Interdisciplinary Minor	147	Student Life Facilities and Programs / Services	426
Schedule of Courses	8	Student Success Initiatives	437
Scholarships and Awards.....	21	Studio Art Minor (12-18 credits).....	76
School of Arts and Humanities.....	8	Study Abroad Opportunities	41
School of Continuing and Professional Studies.....	8, 434	Summer Session	50
School of Education	8	SWA - Swahili.....	408
School of Health Sciences, Human Services, and Nursing.....	9	SWK - Social Work.....	409
School of Natural and Social Sciences	9	Teacher Academy	37
Science Laboratories	424	Teacher Certification	47, 109, 152
		Teacher Education Services.....	46
		Testing Requirements.....	13

Testing Requirements for Incoming Freshmen, Transfer Students, and Information Regarding CUNY Assessment Tests Exemptions	13
THE - Theatre.....	411
The Adult Degree Program (ADP).....	67
The APEX	426
The Bookstore	425
The Bronx Institute.....	9
The Cafeteria	427
The Campus Life/Student Activities Office.....	427
The Career Services Center	428
The Center for School/College Collaboratives	9
The Child Care Center.....	429
The City and the Humanities	105
The City University of New York	6, 431
The City University of New York Campus and Workplace Violence Policy	474
The City University of New York Computer User Responsibilities	465
The City University Of New York Policies And Procedures Concerning Sexual Assault, Stalking, And Domestic And Intimate Partner Violence Against Students.....	459
The City University of New York Policy on Withholding Student Records	17
The Counseling Center.....	429
The Financial Aid Office.....	428
The Fresh Start Program.....	62
The GPS Program (Go. Persist. Succeed.).....	435
The Institute for Irish American Studies..	10
The Institute for Literacy Studies	10
The Jaime Lucero Mexican Studies Institute at CUNY	11
The Language Laboratory	424
The Lehman Scholars Program	37, 152
The Leonard Lief Library.....	423
The Office of Community Engagement and New Student Programs	429
The SEEK Program.....	12
The Speech and Hearing Center	429
The Student Health Center	429
The Undergraduate General Education Curriculum.....	28
Theatre Management Minor (12 Credits).....	162
Theatre Minor.....	162
Theatre, B.A. (42 Credit Major)	161
Therapeutic Recreation, B.S. (53 Credit Major).....	136
Time Limit to Complete the Nursing Program	171
Total Withdrawals	51
Transfer Credit	51
Transfer Students.....	13
Tuition	23
Tuition and Fees	22
Tuition Assistance Program (TAP).....	17
Tuition, Fees, and Financial Aid.....	17
Tutoring Programs.....	45
U.S. Bureau of Indian Affairs Aid to Native Americans	21
Undergraduate and Graduate Grading Basis.....	58
Undergraduate Certificates	51
Undergraduate Curriculum	7
Undergraduate Grading Systems and Related Policies	52
Undergraduate Secondary Teacher Education Program Minor and Certification Requirements (Art, English, Foreign Language, Mathematics, Science and Social Studies)	157
Undergraduate Teacher Certifications	41
URB - Urban Studies	416
Urban Community Development (Interdisciplinary Minor)	186
Urban Male Leadership	430
Urban Male Leadership Program.....	439
Urban Studies (Interdisciplinary).....	198
Urban Studies Program.....	198
Values Statement.....	6
Veterans.....	15
Veterans Administration (VA) Educational Benefits.....	21
Veterans and Military Affairs.....	430, 439
Vietnam Veterans and Persian Gulf Veterans Tuition Award (VVTA and PGVTA)	18
Vision Statement	6
Visiting Students	15
Vocational Rehabilitation	18
Wellness Education and Education Program.....	430
Wellness Education and Health Promotion Program.....	439
WFL - World Foreign Languages.....	416
Winter and Summer Sessions	8
Withdrawal from Courses.....	51
Withdrawals and the Return of Federal Financial Aid.....	25
Women's and Gender Studies Minor.....	199
Women's and Gender Studies Option (18-Credit)	198
Women's and Gender Studies Studies (Interdisciplinary).....	198
Women's Studies Option	152
Writing Across the Curriculum.....	437
WST - Women's Studies.....	418
WU and F Grades Policy	59
YDH - Yiddish	421
YOR - Yoruba	422
Youth Services Minor.....	137

