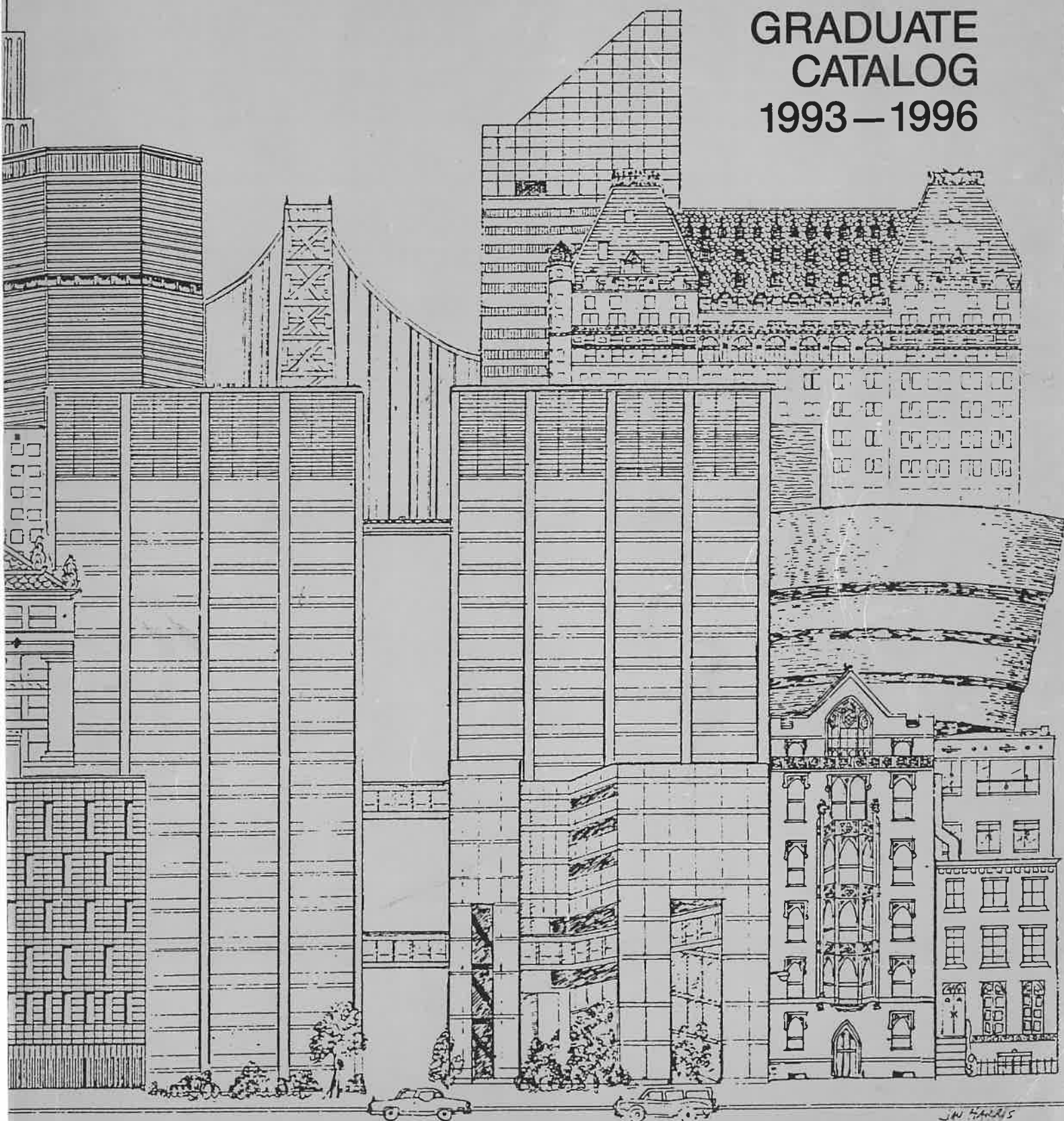


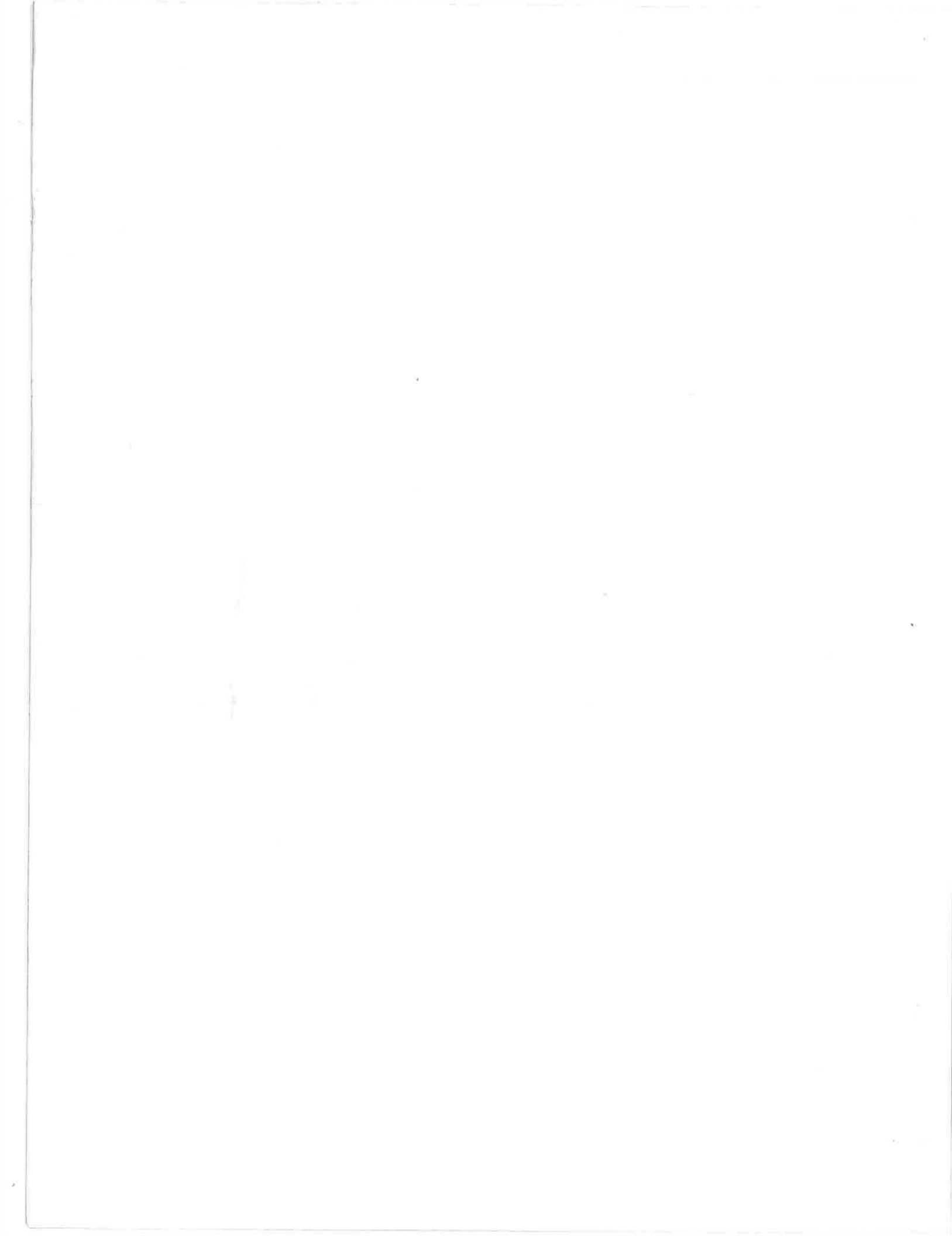


HUNTER COLLEGE

OF THE CITY UNIVERSITY OF NEW YORK

GRADUATE CATALOG 1993—1996







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GRADUATE CATALOG 1993—1996

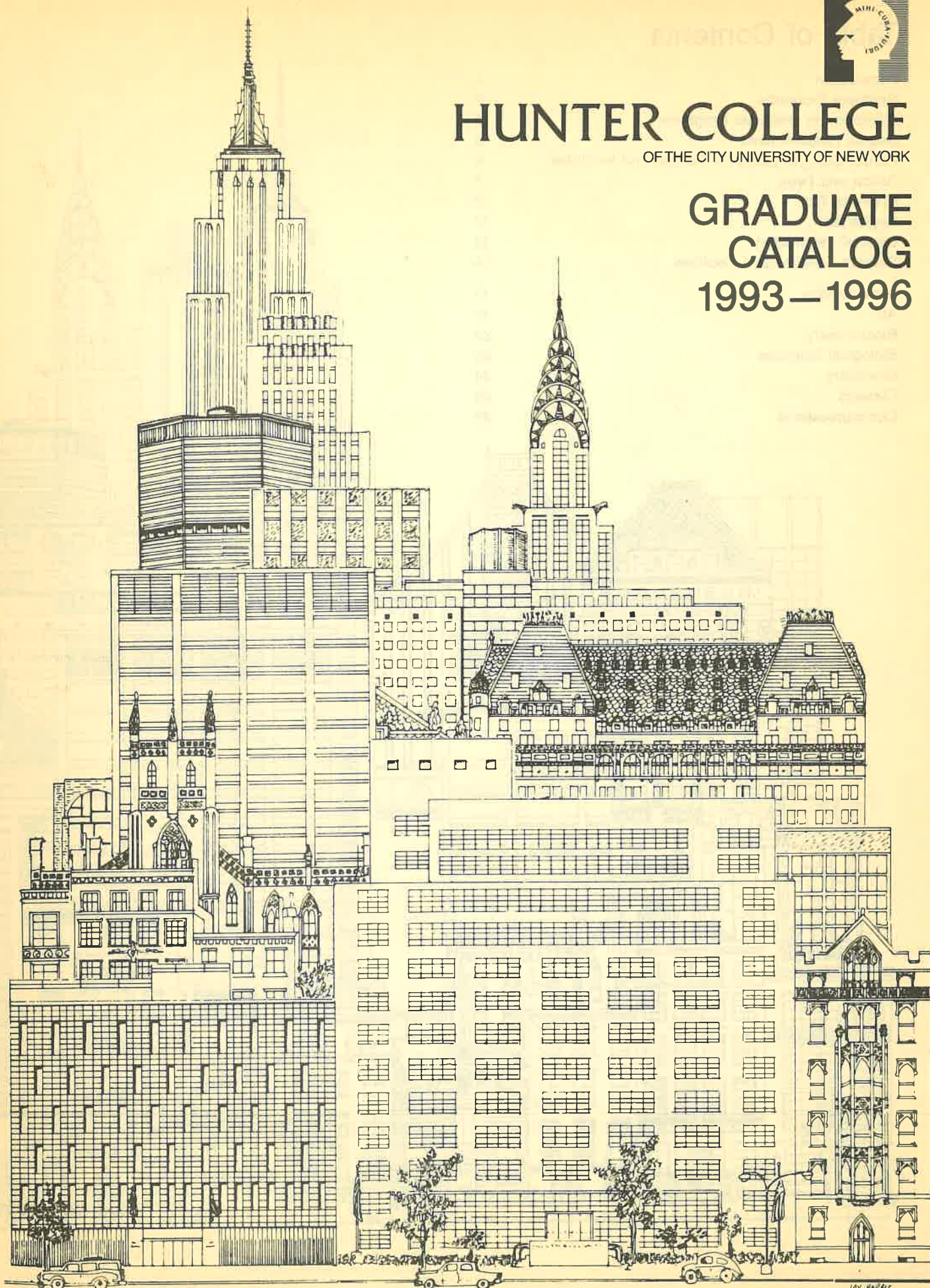
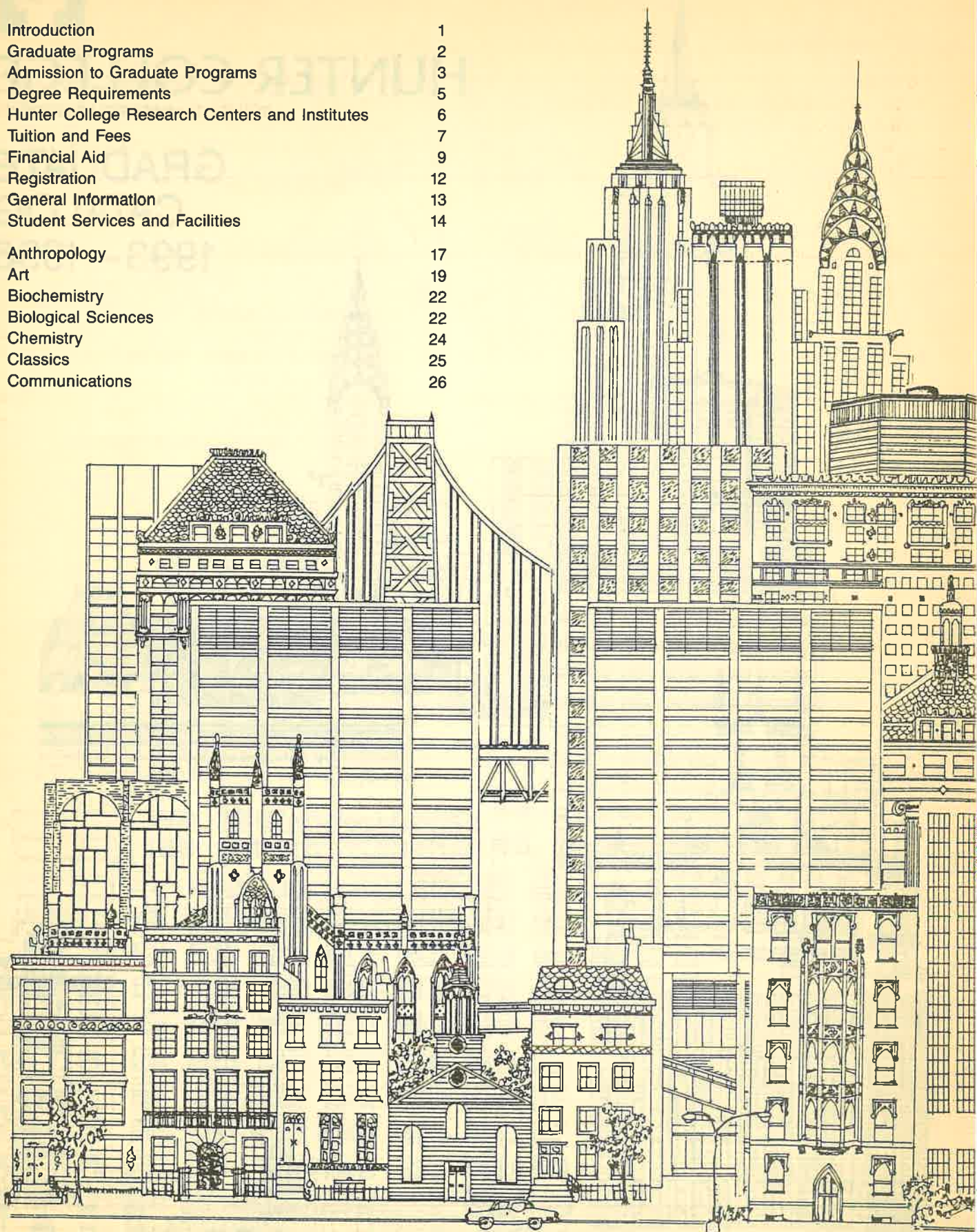
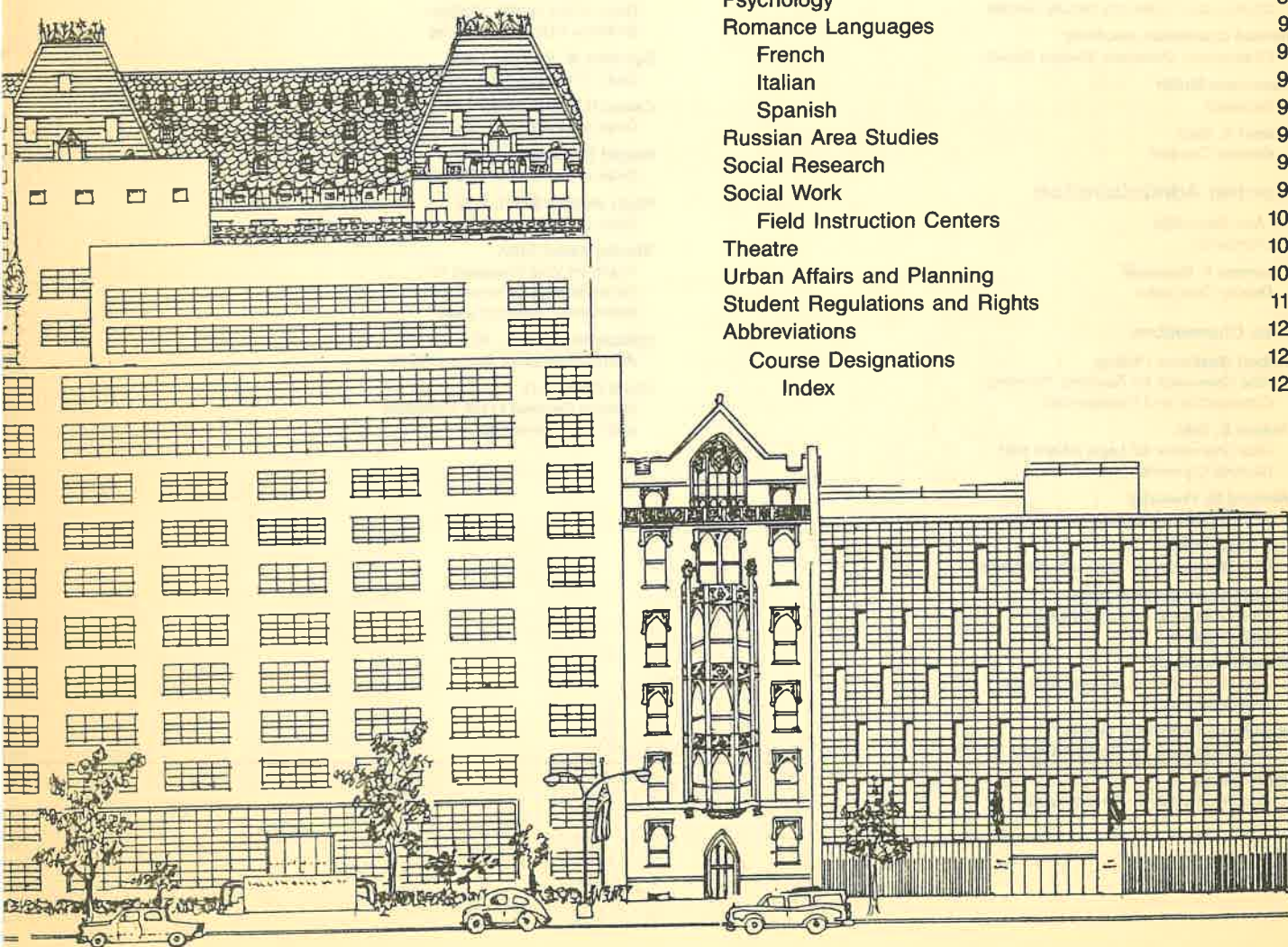


Table of Contents

Introduction	1
Graduate Programs	2
Admission to Graduate Programs	3
Degree Requirements	5
Hunter College Research Centers and Institutes	6
Tuition and Fees	7
Financial Aid	9
Registration	12
General Information	13
Student Services and Facilities	14
Anthropology	17
Art	19
Biochemistry	22
Biological Sciences	22
Chemistry	24
Classics	25
Communications	26



Computer Science	27	German	62
Economics	28	Health Sciences	63
Education	30	Allied Health Services Administration	63
Early Childhood (see Education, Elementary)		Communication Sciences	64
Guide to Programs in Education	33	Community Health Education	68
Teacher Education Programs	33	Environmental and Occupational Health Sciences	70
Elementary Education	33	Nutrition	71
Bilingual Education	36	Field Instruction Centers	73
Secondary Education	38	History	74
Teaching English to Speakers of Other Languages	44	Linguistics	76
Advanced Certificate in Educational Administration		Mathematics and Statistics	77
& Supervision	46	Music	79
Counseling Programs	46	Nursing	82
Guidance & Counseling	47	Community Health Nursing	83
Rehabilitation Counseling	48	Maternal-Child Nursing	83
Special Education	50	Pediatric Nurse Practitioner Program	83
Health and Physical Education	55	Medical-Surgical Nursing	84
School Health Management	55	Psychiatric Nursing	84
Dance/Movement Therapy	55	Nursing Administration	84
Dance/Movement Therapy/Social Work—		Gerontological Nurse Practitioner Program	84
Dual Degree	56	Philosophy	86
English	58	Physics and Astronomy	87
Geology and Geography	60	Political Science	88
		Psychology	89
		Romance Languages	91
		French	92
		Italian	92
		Spanish	92
		Russian Area Studies	94
		Social Research	96
		Social Work	99
		Field Instruction Centers	102
		Theatre	104
		Urban Affairs and Planning	105
		Student Regulations and Rights	110
		Abbreviations	122
		Course Designations	123
		Index	124



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The City University of New York

The City University of New York (CUNY), bringing together all the city's senior and community colleges, was formed in 1961. It is governed by the Board of Trustees, which sets the general policies and rules for the operation of the separate colleges. Within this common framework, each college selects its own faculty and constructs its own programs in accordance with its particular educational aims and its understanding of the way these can best be reached.

Hunter College

Hunter College is the largest and second-oldest of the 20 institutions that comprise The City University of New York. It is a comprehensive teaching, research and service institution, long committed to educating undergraduate and graduate students in liberal arts and sciences and in several professional fields: education, health sciences, nursing, social work.

Originally called the Female Normal and High School, it was founded in 1870 by Thomas Hunter to educate young women who wished to be teachers. The institution took its present name in 1910. Graduate studies for both men and women were introduced in 1921. The college became fully coeducational in 1964.

Hunter is the only college in the country whose roster of alumni includes two female Nobel laureates. They are Gertrude B. Elion and Rosalyn Sussman Yalow, both winners of the Nobel Prize for Medicine. Among Hunter's other celebrated alumni are opera stars Martina Arroyo and Regina Resnik, authors Naomi H. Bliven, Evan Hunter, Bel Kaufman, Leonard Kriegel, and Kate Simon, columnist Sylvia F. Porter, Congresswoman Bella S. Abzug, film critic Judith Crist and architecture critic Ada Louise Huxtable, historian Lucy S. Dawidowicz, actress Ruby Dee, dancer/anthropologist Pearl Primus, educator Joseph Shenker, business executive Helen Galland Loewus, psychologist Rose N. Franzblau and psychiatrist Avodah K. Offit, and journalists Jack Newfield, Philip Shabecoff, and Kathleen Teltch.

Hunter's faculty has included many distinguished scholars, educators, and creative artists, all greatly esteemed in their fields; many of them are well known to the public at large. Among the latter are authors Irving Howe, Alfred Kazin, and Philip Roth, poet (and Hunter alumna) Audre Lorde, actress Claire Bloom, director Harold Clurman, painter Robert Motherwell, singer Russell Oberlin, sculptor Tony Smith, and composer Louise Talma.

Throughout its history Hunter has maintained the integrity of the liberal arts curriculum and its traditional standards of excellence, while honoring and expanding its commitment to open access. Hunter's diverse population, its academic orientation, its cosmopolitan outlook, its special commitment to freedom of inquiry and speech, all have an unmistakable effect on the mission of the college and the experience that is a Hunter College education. Committed to the achievement of a pluralistic community, Hunter offers a diverse curriculum designed to foster understanding among groups from different racial, cultural and ethnic backgrounds.

The college's mission statement says: "the goal of a Hunter College education is to encourage the fullest possible intellectual and personal growth in each student. While preparation for specific careers is an important objective of many programs, the fundamental aim of the college experience as a whole is to develop a student's rational, critical, and creative powers. Such development involves the abilities to conceptualize and analyze, to relate the concrete and particular to the abstract and general, and to think and write logically and coherently. It also includes a broadening and deepening of outlook: an awareness of one's



own and other cultures as well as of the enduring questions and answers concerning being, purpose, and value that confront humanity. Finally, the educational experience at Hunter is intended to inspire a zest for learning as well as to bring the recognition that learning is pleasurable and knowledge is useful."

Hunter offers over forty graduate programs of study, and entrance into them is often highly competitive. Graduate studies at Hunter are designed to serve students embarking upon careers. They are also meant to serve the evolving needs of the New York community—which requires professionals with specific competencies.

Hunter College enrolls approximately 8,000 full-time undergraduates, and over 4,500 graduate students. It has a full-time faculty of about 650, and an annual budget of \$70 million.

It has five campus sites. The main campus on Park and Lexington Avenues at 68th Street houses programs in the arts and sciences as well as teacher education. The School of Nursing and the School of Health Sciences are on the Brookdale Campus, at 25th Street and First Avenue in Manhattan. The School of Social Work at 129 East 79th Street offers graduate programs leading to the MSW degree. At the Voorhees Campus, Hunter College provides studio space at 450 West 41st Street for students enrolled in its prestigious MFA program. The Hunter College Campus Schools at 94th Street and Park Avenue are publicly funded elementary and high schools for intellectually gifted students. This campus also serves as an educational laboratory and research facility. At the main campus there is a nine-story, state-of-the-art library which houses more than half a million books and more than 4,100 current journals.

Accreditation

Hunter College is accredited by the Board of Regents of the State University of New York, the Middle States Association of Colleges and Secondary Schools, the National Council for Accreditation of Teacher Education, the Council on Social Work Education, the National League for Nursing, the Department of Baccalaureate and Higher Degree Programs, the American Planning Association, the Council on Rehabilitation Education, the Educational Standards Board and Professional Service Board of the American Speech-Language-Hearing Association, the Council on Education for Public Health, the American Dietetic Association, and the Commission on Accreditation in Physical Therapy.

Graduate Programs

The following graduate degree, advanced certificate, and combined undergraduate/graduate degree programs are offered (concentrations or options are indicated in parentheses). These programs have been approved by the New York State Education Department and are listed in the Inventory of Registered Programs. The Higher Education General Information Survey (HEGIS) code numbers appear next to the appropriate program.

Students are advised that enrollment in other than registered or otherwise approved programs may jeopardize their eligibility for certain student aid awards.

For specific information on a particular graduate program—including faculty, admission and degree requirements, and course descriptions—consult the appropriate section of this catalog.

Doctoral Program

The University doctoral program, centrally supervised by the City University Graduate School and University Center, offers a PhD in the following academic disciplines: anthropology, art history, biochemistry, biology, biomedical sciences, business, chemistry, comparative literature, criminal justice, earth and environmental sciences, economics, education (educational psychology), engineering, English, French, Germanic languages and literature, history, linguistics, mathematics, music, philosophy, physics, political science, psychology, social welfare (DSW), sociology, Spanish, speech and hearing sciences, and theatre. The doctoral faculty is composed of faculty members from the senior colleges who hold CUNY Graduate School appointments. Doctoral courses are taught at the Graduate School and on the senior college campuses. The Graduate School and University Center is located at 33 West 42nd St., New York, NY 10036.

Graduate Programs

Humanities and the Arts		School of Health Sciences (cont'd)		Programs in Education (cont'd)	
	HEGIS Code		HEGIS Code		HEGIS Code
Art (Creative), MFA	1002	Communication Sciences, MS	1220	Physical Education, MSED**	0835
Art (Creative), MA**	1002	Audiology		Reading Teacher, MA**	0830
Art History, MA	1003	Speech Pathology		Rehabilitation Counseling,	
Communications, MA	0601	Community Health		MSED	2104.10
English, BA/MA	1501	Education, MPH	1214	Secondary Education, MA	
English Literature, MA	1502	Environmental and Occupational		Offered in collaboration with the	
French, MA	1102	Health Sciences, MS	1299	following departments or	
Italian, MA	1104	Home Economics (K-12)		programs:	
Museum Administrator,		Teacher, MSED**	1301.01	Art	0831
Adv. Cert**	1099	Nutrition, MS	1306	Biology	0401.01
Music, MA, BA/MA	1004	Teachers of Speech & Hearing		Chemistry 7-12, MA**	1905.01
Composition	1004.10	Handicapped, MS	0815	Earth Science 7-12, MA**	1917.01
Music History	1006			English	1501.01
Performance	1004	School of Nursing	1203.10	French	1102.01
Music—Ethnomusicology, MA	1006	Maternal—Child Nursing, MS		Italian	1104.01
Spanish, MA	1105	Medical—Surgical Nursing, MS		Latin	1109.01
Theatre, MA	1007	Occupational Health Nursing, MS*		Mathematics	1701.01
		Psychiatric Nursing, MS		Music	0832
Sciences and Mathematics		Nursing Administration, MS		Physics 7-12, MA**	1902.01
Biochemistry, MA	0414	Gerontological Nurse		Social Studies	2201.01
Biological Sciences, MA	0401	Practitioner Program, MS		Spanish	1105.01
Chemistry, MA**	1905	Community Health Nursing, MS		Speech, MSED**	1506.01
Computer Science, MA*	0701			Teachers of Special Education,	
Geography, MA	2206	School of Social Work	2104	MSED	0808
Mathematics (Pure), MA, BA/MA	1701	Social Work, MSW		Teachers of the Deaf, MSED	0812
Mathematics (Applied), MA	1703	Social Work Practice,		Teachers of the Blind and Visually	
Physics, MA, BA/MA	1902	Advanced Certificate		Handicapped, MSED	0814
				School Administrator & Supervisor,	
Social Sciences		Programs in Education		Advanced Certificate	0828
Anthropology, MA, BA/MA	2202	College Counseling & Student		Teaching English to Speakers of	
Economics, MA, BA/MA	2204	Development, MA**	0826	Other Languages, MA	1508
History, MA, BA/MA	2205	Elementary Education,			
Psychology, MA	2001	N-6, MSED	0802	Dual Degree Programs	
Russian Area Studies, MA	0307	Elementary Education N-6,		Community Health Nursing/	
Sociology & Social Research,		Bilingual Extension		Community Health	
MS, BA/MS	2208	Elementary Education N-6,		Education, MS/MPH	1203.10/1214
Urban Affairs, MS	2214	Reading Teacher.		Dance Movement Therapy/	
Urban Planning, MUP	2214	Dance/Movement Therapy, MS	1008	Social Work, MS/MSW	1008/2104
		Guidance & Counseling (School			
School of Health Sciences		Counselor), MSED	0826.01		
Allied Health Services		School Health Management,			
Administration, MS*	1202	MSED**	0837		

*Applications for admission to these programs are not being accepted at the current time.

**Program has been suspended.

Admission to Graduate Programs

General

An applicant for admission to Hunter College as a regular, matriculated student in any of the master's programs must meet the following minimum requirements in order to be considered: (For admission to the School of Social Work, see appropriate section of this catalog.)

1. The student must hold a bachelor's degree from a regionally accredited institution, comparable in standard and content to a bachelor's degree from Hunter College.

Degrees granted on the basis of work completed at institutions which are not fully accredited, or on the basis of non-academic prior learning, test scores, and other than organized supervised coursework in academic subjects may not be considered comparable.

2. The student must demonstrate ability to pursue graduate work successfully. In general, the minimum requirements for consideration are an undergraduate average of B in the area in which the student wishes to specialize and an average of B minus in the undergraduate record as a whole. Applicants are required to submit official transcripts from *all* undergraduate and graduate institutions attended other than Hunter College.
3. For admission to an Arts and Sciences graduate program, the student is usually required to present at least 18 credits of previous work in the area of specialization acceptable to the academic division and the school or department concerned.
4. The Graduate Record Examination (GRE)—both the general aptitude test and the advanced test (if offered) in the proposed field of graduate study—is required of all applicants to arts and sciences and health sciences; it is not required for programs in education, nursing or the MFA program. Applicants should write directly to Graduate Record Examination, Educational Testing Service, Box 6000, Princeton, NJ 08541-6000 for full information and arrangements to take the test. The GRE should be taken no later than February for Fall admission and September for Spring admission.

International Students

A report of the Test of English as a Foreign Language (TOEFL) is required of all applicants who have completed their undergraduate education in a country where English is not the native language. Such applicants are advised to take the TWE (Test of Written English) and the TSE (Test of Spoken English), also administered by the Educational Testing Service. Applicants should plan to take the TOEFL at least 9 months before their intended date of enrollment. Information about TOEFL, TWE, and TSE can be obtained by writing to TOEFL Bulletins, P.O. Box 6151, Princeton, NJ 08541-6151.

Applicants are expected to have a firm command of the English language before they apply. No provisional admission is offered whereby a student may come to the university and spend a semester or a year learning English.*

If the applicant plans to enter or remain in the US on a student visa (F-1), it will be necessary to complete a Certification of Finances form and provide documented proof of financial support confirming that he or she has the funds necessary to cover all

College tuition and personal expenses (approximately \$14,000-\$17,000 per year). This form and documentation are required in order to obtain the I-20 AB Certificate of Eligibility. This procedure takes place after determination of academic eligibility and before registration for the first semester. *Note:* Overseas applicants who are interested in attending Hunter College are advised *not* to come to the US on a B-2 visitor's visa. Unless pre-arranged through the American consul (and unless the visa is marked "prospective student") the B-2 visitor's visa will not be changed to the F-1 student visa once the applicant enters the US. The I-20 form (required by the US Immigration Office) is issued only to students who have been accepted as full-time matriculants.

Applicants are responsible for the payment of all tuition fees at the time of registration. Because no financial assistance is available to international students, they must be in a position to finance the cost of their education and living expenses (estimate: \$14,000-\$17,000 per year).

Hunter College does not make housing arrangements for students; it is essential that students be prepared to make their own housing arrangements before arrival.

Note: Undergraduate credentials from non-U.S. institutions are evaluated by the Office of Admissions in order to establish an equivalency to a U.S. baccalaureate degree. Applicants must also submit official English translations if the transcript is recorded in a language other than English. The evaluation is conducted in accordance with minimum criteria set by the Hunter College Senate, and it takes place before the completed application is referred to the departmental admissions committee.

Procedure

Application blank (and 2 forms for letters of recommendation—references are not required for teacher education programs) should be obtained from the Office of Admissions, North Building, room 203, 695 Park Ave., New York, NY 10021; telephone (212) 772-4482. The deadline for applications is March 1 for fall admission and October 1 for spring admission. Applicants for the School of Social Work should obtain admission forms from the School of Social Work, 129 East 79th St., New York, NY 10021; telephone (212) 452-7055. Applicants for dance therapy should obtain admission forms from Professor Nana Koch, Hunter College, 425 East 25th St., New York, NY 10010; telephone (212) 481-4347.

The complete application, accompanied by an application fee of \$35, must be sent to the appropriate office (check or money order only; no cash). Applicants must arrange to have complete official transcripts of their records sent directly from each institution attended to the appropriate office. Please make requests early enough to ensure that all transcripts and supporting documents arrive by the closing date for filing applications. For institutions outside The City University of New York, applicants may be asked to present, with their application, marked copies of the catalogues showing description and level of courses taken.

Applicants to some graduate programs may be asked for additional materials and may be interviewed by a member of the program for which the application is made. Applications must be approved by the graduate advisor or coordinator of the program and the divisional dean.

Admission Status

Applicants are admitted to graduate programs under any one of the following categories:

1. *Matriculated*—For matriculation, students must fulfill all the requirements for admission.

*Minimum satisfactory score on TOEFL is 550 (600 for teaching English to speakers of other languages and for computer science).

2. *Matriculated with conditions* — Students whose undergraduate training is inadequate, but who are otherwise qualified, may be admitted with not more than 6 credits of conditions to an arts and sciences, health sciences, or nursing program, and with not more than 12 credits of conditions to a program in education. Such students are expected to satisfy their undergraduate course conditions by eliminating all deficiencies within one year of matriculation if in an arts and sciences program, and within 3 semesters if in a program in education. (For other programs, check the appropriate section of this catalogue.)
3. *Non-matriculated* — A formal application must be filed in the Office of Admissions, North Building, room 203, 695 Park Ave., New York, NY 10021 approximately 2 months before registration. The application must be accompanied by a copy of a diploma or transcript showing conferral of the equivalent of at least an American bachelor's degree. Applicants who intend to qualify for New York State tuition rates may be asked to submit copies of 2 forms of proof of New York State residence (i.e., driver's license, voter registration card, lease, W-2 form, utility bill) for at least one year prior to the first day of classes. If the application and supporting material are acceptable, registration material will be sent with further instructions. You should present a student copy of your undergraduate transcripts as well as a copy of the undergraduate catalogue(s) to the departmental advisor in order to obtain course approval. The non-matriculation application fee of \$35 will be charged when the student registers.

Acceptance to non-matriculated status does not imply approval to take a specific course. This approval rests solely with the graduate program advisor involved. Students should consult the graduate program advisor in the appropriate department for specific information.

To be considered for possible matriculation, a non-matriculated student must have earned grades of A or B for the course credits taken as a non-matriculant. For most programs in education, 9 credits must be presented with a minimum of 3.0. This requirement is in addition to the College and program admission requirements for matriculation.

A separate application for matriculated status must be completed and can be filed while the non-matriculated courses are in progress. The application for matriculated status must be filed by March 1 for fall admission and by October 1 for spring admission.

A non-matriculated student may be limited to 9-12 credits (check with departmental advisor). A minimum grade point average of 3.0 must be maintained.

Registration as a non-matriculant does not entitle an international student to an I-20 AB (Certificate of Eligibility).

Graduate non-matriculants are not permitted to register for a total undergraduate program.

Approval of Credit from Non-Matriculant to Matriculant Status

Graduate courses taken at Hunter as a non-matriculant may or may not be approved for credit towards the Hunter degree when a student matriculates into a program. Restrictions on approval of credit, including restrictions on the maximum number of credits allowed from non-matriculant to matriculant status, vary from one graduate program to another. Therefore, it is advisable to consult the appropriate departmental advisor to clarify specific program requirements.

Within specific department or program limitations regarding the number of credits approved, automatic approval will be granted for those required courses taken within the program in which the student is matriculated if the grades received are B or higher.

Approval is not automatic for courses in which the grade received is less than B. To have such a course considered for approval, the student must submit a credit approval form, which may be obtained in the Office of Admissions.

Note: Grades in courses taken as a non-matriculant at Hunter will be calculated into the student's grade point average (GPA) whether approved towards the degree or not.

Transfer of Credit

Students may request transfer credit for relevant graduate courses taken at regionally accredited institutions, including courses taken at Hunter College while matriculated in another degree program whether or not the master's degree was awarded.

An application form for such a transfer may be obtained in the Office of Admissions.

Transfer of credits is subject to the approval of the department or graduate advisor and to the regulations of the Hunter program in which the student is matriculated. The following additional limitations apply:

1. In order to be counted towards graduation, the course(s) for which transfer credit is requested must have been completed within 4 years prior to the awarding of the Hunter graduate degree. (A 5-year restriction applies for teacher education, health sciences, social work, and nursing programs.)
2. Credits for courses for which a grade below B was earned, or non-letter grades taken as a pass/fail option, are not transferable.
3. A maximum of 12 credits may be transferred.
4. Neither courses used to satisfy entrance requirements, nor courses used as part of a previously completed bachelor's program, may be transferred.

Note: Grades in courses transferred from other institutions, or from a prior master's degree program earned at Hunter College, will not be calculated into the student's grade point average (GPA), nor will these grades be posted on the current Hunter College record.

Undergraduates

A Hunter College senior who is within 9 credits of completing the course requirements for the bachelor's degree and who has the approval of the appropriate Hunter department(s) may be admitted to a limited program of graduate work. Graduate tuition rates for these courses will be charged when it is determined that the courses will not be used for the bachelor's degree and an application for graduate matriculation has been submitted and approved.

Courses in the graduate division may be taken for credit toward the bachelor's degree by highly qualified Hunter College undergraduates. A course approval should be presented at the time of registration.

Undergraduate students who have been selected for an approved combined BA/MA program may begin graduate work according to the timetable of the combined program without special permission. The program advisor will give the Registrar the names of those undergraduates who are qualified to begin

the graduate portion of the program. These students pay undergraduate tuition and fees. BA/MA students are governed by undergraduate rules.

Readmission—Matriculated and Non-Matriculated Students

A student who, for any reason, has not been in attendance for one or more semesters must apply for readmission to the College. Students who registered for the previous semester and officially withdrew after the 3rd week of classes are not required to file for readmission.

Applications are available and may be filed in the Office of the Registrar, room 217, North Building. There is a \$10 nonrefundable readmission fee.

Students who are academically eligible (GPA at least 3.0) and who have no outstanding financial obligations to the College are generally approved for readmission, subject to space limitations in departments. Applications for readmission must be filed at least 2 months before the beginning of the semester in which the student plans to resume studies.

Change of Degree Program

A matriculated student who wishes to change from one graduate curriculum to another within or outside a particular division is required to file formal application for change of curriculum and submit an application fee of \$35.00 in the Office of Admissions. A recommendation from the graduate advisor or coordinator of the original program must accompany the application for change of program. The application must be filed no later than March 1 for fall admission and October 1 for spring admission.

Courses Outside the Program

It is the responsibility of the graduate advisor to see that matriculated students do not register for any graduate courses outside of their program without written permission of the graduate advisor or coordinator of the program in which they are matriculated.

Degree Requirements

A matriculated graduate student enrolled in the graduate program and accepted as a candidate for the degree of master of arts or master of science will be recommended for the degree after the following requirements have been satisfied:

Courses

The candidate must have registered for and attended courses totaling the number of credits specified for the individual program. Courses other than those in the department of specialization may be credited toward the degree only with the approval of the graduate advisor. Full-time graduate students may enroll for no more than 18 credits in any one semester.

Grades

The candidate must have achieved a cumulative grade point average of not less than 3.0 (B) in all graduate work taken at Hunter.

Thesis

A master's thesis is usually required. After it is approved, the original and one copy of the thesis is deposited with the appro-



priate divisional office. It must be accompanied by a receipt from the Bursar's Office for the payment of the fee for binding one copy of the thesis.

A thesis approval form and style sheet, the requirements of which must be met strictly, are available from the graduate advisors' and the divisional deans' offices.

When the thesis approval form has been signed by the department graduate advisor and divisional dean, the original must be sent to the Degree Audit Unit of the Registrar's Office.

Where a thesis does not appear to be an appropriate measure of achievement, the Graduate Course of Study Committee of the Hunter College Senate has approved an acceptable substitution or equivalent.

Foreign Language

A reading knowledge of a foreign language is usually required. In programs where this knowledge does not appear to be necessary or appropriate, the Graduate Course of Study Committee has granted an exception.

Time Limit

The total time for completing all degree requirements from the beginning of matriculation is 4 years. (For programs in education, nursing, health sciences, and social work it is 5 years.) Courses exceeding the limit at graduation will not be included in degree credits unless approved by the department and the divisional dean.

Enrollment

A student must be registered for the semester of graduation, either by maintaining matriculation (see p.12) or by registering for a course.

Graduation

A formal application and certification form for graduation must be filed in the Office of the Registrar during the scheduled registration period in the semester in which the student expects to receive a degree or certificate. (Check the schedule of classes in the calendar for deadline dates.)

Hunter College Research Centers and Institutes

Brookdale Center on Aging

The Brookdale Center on Aging, established in 1974, is the largest multidisciplinary academic gerontology center in the tri-state area. The center has an operating budget of \$3 million, and is supported by funding from Hunter College, grants from the Brookdale Foundation and other philanthropic and corporate foundations, grants and contracts from federal, state, and local governments, and contributions from the general public. A Board of Overseers, composed of leading citizens of New York City, acts in an advisory capacity to the faculty and staff of the center. Dr. Rose Dobrof, Brookdale Professor of Gerontology at the Hunter College School of Social Work, is the director of the center.

The work of the center, which addresses the needs of all older people with particular attention to lower-income, minority, or frail aged, is generally organized under the auspices of six institutes, departments, and divisions: the Institute on Law and Rights of Older Adults; the Institute on Intergenerational Education; the Institute on Mutual Aid and Self Help in the Field of Aging; the Training Division; the Research Department and the Student Scholarship and Placement Department. The Hunter College/Mount Sinai Geriatric Education Center was established in 1985; its affiliates include the New York Medical College, the College of Podiatric Medicine, the SUNY School of Optometry, and over 100 other educational and service institutions in the tri-state area.

Center on AIDS, Drugs, and Community Health

The Center on AIDS, Drugs and Community Health defines its mission as helping New York City community organizations and human service agencies to develop effective programs for the control of HIV/AIDS, substance abuse, tuberculosis, violence and related threats to health. By providing training, helping in program development, and conducting research and evaluation, the center enables communities that have been most adversely affected by these intersecting epidemics to mobilize for health.

The center also helps students at Hunter College and other CUNY units to develop the knowledge and skills needed to care for people with HIV. In addition, through internships, special courses, and faculty workshops, the center prepares students to bring accurate AIDS prevention messages to their communities.

Through its research and evaluation unit, the center is evaluating the impact of the New York City high school AIDS education/condom availability program as well as helping several community organizations to assess their AIDS prevention program.

The center is funded by several private foundations and city, state and federal governments.

Center for Media and Learning

The Hunter College Center for Media and Learning, established in 1990, has three major areas of interest:

- analysis of the growing influence of visual media on learning and teaching;
- design and production of sophisticated and accessible educational media in a variety of disciplines; and
- training teachers in the appropriate implementation of active learning strategies that incorporate visual media in the classroom.



Center activities build on insights drawn from production and educational outreach work of Hunter College's American Social History Project staff, who conceived the center. The center currently sponsors a monthly Media and Learning seminar that features presentations of ongoing research by Hunter College faculty and outside media producers, academics, and teachers, both domestic and international. Center staff supervise the operation of the college's Interdisciplinary Video Studio and provide advice and assistance in the creation of educational media, including multi-media classroom presentations, by Hunter College faculty and staff. The center also has a number of multimedia production projects, including several interactive computer-based projects in development on American History. Future plans include securing funding for media research and fellowship programs that will contribute to the center's continuing function as a "clearing-house" for media education information.

Center for Occupational and Environmental Health

The Hunter College Center for Occupational and Environmental Health (COEH) was established in 1986 to improve workplace and environmental health by assisting worker and community efforts to understand and ameliorate hazardous conditions. Jointly sponsored by two School of Health Sciences academic programs (Community Health and Environmental and Occupational Health Sciences), the center:

- conducts epidemiological research to discover associations between working and living conditions and health;
- assists labor union efforts to strengthen their capacity to respond to workplace hazards;
- develops and publishes curricula, conducts and evaluates the impact of worker training on occupational safety and health;
- collaborates with public health agencies to develop policy concerning occupational and environmental health;
- sponsors graduate student internships in occupational and environmental health.

Since its beginning, the center has conducted training for construction, service, communication, public, hospital, and chemical and industrial employees. Areas of specialty include asbestos, ergonomic disorders, lead, hazardous waste, laboratory chemical hygiene and injury control and surveillance. Beginning in 1992, COEH began a significant effort to support the efforts of workplace health and safety committees. This project publishes manuals and guides, sponsors educational programs and trains workers to conduct and analyze the results of worksite surveys. COEH currently serves as the Regional Health and Safety Office for the United Paperworkers Int'l Union. COEH is funded by federal and state grants, labor unions, and private foundations.

Center for the Study of Family Policy

The Hunter College Center for the Study of Family Policy promotes research, dialogue, and action focused upon changing family needs and emerging family policies in the United States. The center is committed to an inclusive definition of the family that recognizes its central position in society and its diverse forms. Interdisciplinary research projects and focused educational programs contribute to the development of a viable family policy for the 1990s, one that is universal, comprehensive, and sensitive to issues of race, gender, ethnicity, sexual orientation, social class and family structure.

Through its speaker series, scholar and advocate roundtables, research projects, and the activities of its advisory committee members and faculty associates, the center brings together researchers, policy makers, students, service providers, community activists, and others to:

- Identify the diverse and changing needs of families in the United States;
- Conduct relevant research on innovative ways of addressing the needs of families;
- Assess the impact of local, state, and federal family policy initiatives;
- Examine models of family policy from other societies;
- Disseminate information that will further the current debate about family policy in the United States.

Centro de Estudios Puertorriqueños

An outgrowth of the civil rights and student movement of the 1960s, the Centro de Estudios Puertorriqueños (The Center for Puerto Rican Studies) was established at The City University in 1973. Over the years, the centro's five task forces — history and migration, language policy, culture and the arts, higher education, and film — have published materials that are original contributions to their respective fields, and are intended to serve the practical needs of the Puerto Rican community. The centro library, which is open to the public, contains extensive holdings related to the Puerto Rican experience.

In 1984, the centro joined with Mexican-American Studies centers at Stanford University, the University of California at Los Angeles and the University of Texas at Austin to create the Inter-University Project on Latino Research. IUP is funded to carry out research on Latino populations, to administer a major research competition on social policy for these communities, and to promote the development of research and scholarship on issues of importance to Latino peoples.

Institute for Biomolecular Structure and Function

The Institute for Biomolecular Structure and Function, established in 1988, unites the efforts of chemists, biologists and psychologists working on biomolecular structure and interactions and their effects on gene function. Advanced experimental and theoretical methods are applied to the analysis of molecular structure, combined with biological dissection of molecular function in defined genetic systems. The institute includes facilities for nucleic acid and protein sequencing and synthesis, electron microscopy, x-ray diffraction, nuclear magnetic resonance, and computational chemistry and computer graphics. A facility for cell culture and monoclonal antibody production is expected to be added soon. Major funding has been obtained from the National Institutes of Health (NIH) and other national agencies.

Areas of investigation by institute scientists include:

- Structural studies of proteins and nucleic acids and their interactions;

- Analysis of DNA-protein and protein-protein cooperation in the transcription of DNA and translation of messenger RNA;
- Studies of gene regulation through signal transduction driven by hormones and other extra-cellular ligands;
- The design and synthesis of new drugs capable of binding to specific protein structures or DNA sequences;
- The application of new computer methods, combined with x-ray diffraction and spectroscopic measurements, for deciphering the structure of DNA-protein complexes, as well as drug molecule interactions with DNA and proteins;
- Interactions of steroid hormones in the CNS and its effects on neurotransmitters regulating behavioral and memory function.

With the addition of new faculty active in drug design and synthesis and theoretical chemistry, the program on new anti-viral and antibiotic drugs has been strengthened. Research on new compounds active against the AIDS-associated virus HIV is proceeding. The institute has been awarded additional funding from the NIH specifically for AIDS-related research. Collaborative projects in AIDS research (new drugs against HIV and opportunistic pathogens afflicting patients) are being initiated with institute staff and scientists at Memorial Sloan-Kettering Cancer Center. Anti-tumor drug studies involve interaction between institute scientists and investigators at Columbia University. It is expected that such collaborative research will continue to be an important part of the institute's program.

Tuition and Fees

Students must pay tuition and fees in full at the time of registration. Without *full* payment students will not be considered registered and will not be admitted to classes.

Financial arrangements for the payment of tuition and fees must be made by the student prior to registration. (Information on grants, scholarships, and loans can be found on page 9.)

Tuition

NY-State Resident*

Masters (All)

Full-time	\$1,675/semester
Part-time	\$145/credit
Excess hours	\$50/hour

All Students (Including non-degree and senior citizens)

Consolidated Services fee	\$2 semester or session
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Out-of-State Resident

Masters (All)

Full-time	\$2,925/semester
Part-time	\$250/credit
Excess hours	\$65/hour

All Students (Including non-degree and senior citizens)

Consolidated Services fee	\$2 semester or session
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NOTE: all fees effective 6/1/92

Maintenance of Matriculation: (Graduate Students)

New York State Resident	\$250.00
Out of State Resident	\$403.00

*In order to qualify for New York State tuition rates, students must be US citizens or permanent residents or be in certain temporary visa classifications (A, E, G, I) and have resided in New York State for at least the 12 months immediately preceding the first day of classes of the semester.

Estimated cost of books and supplies per semester for full-time students is \$150.

Students who now reside in New York State but who have had an address out of the state must submit proof of New York State residence to the Registrar's Office. Applications for proof of New York State residency can be obtained in the Office of the Registrar, North Building, room 217, Hunter College, 695 Park Ave., New York, NY 10021. If, at the time of registration, proof of New York State residence has not been approved, students must pay out-of-state tuition; if acceptable proof is submitted and subsequently approved by the Registrar's Office during the semester, a refund can be applied for from the Bursar's Office.

Student Fee

A non-refundable student fee of \$7 is charged all students each semester (fall, spring) at registration.

Other Fees (non-refundable)

Application for matriculation—\$35 payable at the time of filing application for admission

Application for non-matriculation—\$35 payable at registration
Late registration \$15

Schedule adjustment (no fee)

Change of program \$10

Maintenance of matriculation

\$250.00—resident, \$403.00—out-of-state and foreign, per semester. (No student fee required.)

Absentee and special examinations

\$15 for first exam each semester

\$5 for each additional exam each semester

\$25 per semester maximum

Duplicate identification card \$5

Comprehensive examination \$15

(teacher education program curricula only)

Thesis binding fee

\$15 for binding the original copy of the master's thesis typed on bond paper. Two copies are left at the appropriate divisional dean's office—the original and a photocopy or typed duplicate of the original. (Special paper is not required for the second copy.)

Duplicate receipt \$15

Transcript of records \$4

Readmission \$10

Returned check processing \$15

Application for transcripts should be addressed to the Transcript Division of the Registrar's Office with correct remittance.

The application must state the name and address of the official to whom the information is to be mailed. Transcripts of records are mailed to the student's home school only if requested by the student. In accordance with the general practice of colleges and universities, complete official transcripts and certificates (those bearing the original signature and seal) are sent directly by the university, not transmitted by the applicant. No transcripts will be issued for students who have unpaid financial obligations to Hunter. The fee for the issuance of transcripts is waived when the transcript is to be forwarded from one unit of the City University to another.

Requests for certifications and other statements should be addressed to the Registration Division of the Office of the Registrar.

A transcript mailed to the student is not valid for transfer or certification purposes.



All fees and tuition charges listed in this catalogue and in registration material issued by the College are subject to change by action of the CUNY Board of Trustees without prior notice.

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

Refund Policy

During the refund period students may drop courses (in person or by mail) by filing with the Bursar's Office a change of program form that has been approved by the Registrar's Office. The postmark date of mail withdrawal requests or the date of submission of the change of program to the Bursar's Office, and not the last date of class attendance, serves as the basis for computing refunds where applicable. Refunds of tuition for dropped courses will be made in accordance with the following schedule (see calendar for specific dates):

	Fall and Spring Semester	Summer Session
Withdrawal from course before the scheduled opening date of the session	100%	100%
Withdrawal within one calendar week after scheduled date of the session.....	75%	50%
Withdrawal during second calendar week after scheduled opening date of the session	50%	25%
Withdrawal during third calendar week after scheduled opening date of the session	25%	None
Withdrawal after completion of third calendar week after scheduled opening date of the session	None	None

A full (100%) refund of tuition and student fee (where applicable) will be made in the event that either courses or a student's registration is cancelled by the College. Only in these circumstances, or in case of induction into the armed forces, Peace Corps, or VISTA, will the student fee be refunded.

Financial Aid

The Office of Financial Aid (North Building room 241) administers federal, state and city grants, loan, and work-study programs to assist students who need financial help to attend college.

Applications for most programs, as well as information regarding specific application procedures, eligibility requirements, methods of selecting recipients and allocating awards, award schedules, and rights and responsibilities of recipients, may be obtained from the Financial Aid Office.

Hunter College uses a CUNY-specific packet produced by College Scholarship Service (CSS). The packet contains a FAFSA (Free Application for Federal Student Aid) and a CUNY Supplement with the NY State TAP questions as well as the CUNY-specific questions.

The CUNY FAFSA/FAF packet may be used to apply for:

- Federal Work Study
- Federal Perkins
- Federal Stafford Loan
- Federal SLS
- TAP
- Graduate Tuition Waiver (GTW)

Tuition Assistance Program (TAP)

To apply for TAP you must be a U.S. citizen or permanent resident and a legal resident of New York State for at least a year.

The amount of a TAP award depends upon your family's size and net taxable income, which is defined as the combined income of the applicant, the applicant's parents, and the applicant's spouse, as reported in New York State income tax returns for the previous year. Students who are financially dependent upon their parents or who are financially independent of their parents and are married or have tax dependents may be eligible for TAP if their parent's net taxable income is less than \$20,001. Graduates who are financially independent may be eligible if their net taxable income is less than \$5,666. (Adjustments are made for number of family household members attending college full-time.) The maximum TAP award to a graduate student at Hunter is \$1,200.

Applications may be obtained from the Office of Financial Aid or the New York State Higher Education Services Corporation, Tower Building, Empire State Plaza, Albany, NY 12255. Students entering in the Spring semester should apply immediately after acceptance. Applications must be made annually. Students applying for other aid in addition to TAP must file a CUNY FAF. Completed applications should be mailed to: The University Applications Processing Center, PO Box 136, Bay Station, Brooklyn, NY 11235.

The deadline for filing TAP applications is May 1 of the following year (e.g., for the academic year 1991-92, the deadline would be May 1, 1992).

Academic Qualifications for TAP Students who receive their first TAP award during or after the fall 1981 semester to meet guidelines in order to keep their TAP awards, these academic guidelines are broken down into two areas: (1) program pursuit; (2) rate of progress.

Program Pursuit: This portion of the guidelines requires all students to complete a certain number of courses each semester. A grade W (Withdrawal) or a grade of WU (unofficial Withdrawal) is defined as a grade for a course which has not been completed.

Students receiving a first or second semester TAP award must complete at least 50% of a full-time load (6 equated credits) or the equivalent to receive a TAP award for the following semester. Students who fail to complete at least 6 equated credits or the equivalent may not receive their next TAP payment.

Students receiving a third- or fourth-semester TAP award must complete at least 75% of a full-time load (9 equated credits) or the equivalent to receive a TAP award for the following semester. Students who fail to complete at least 9 equated credits may not receive their next TAP payment.

From the fifth TAP payment on, students must complete a full-time load (12 equated credits) in order to receive their next TAP payment.

Rate of Progress: Students must follow both Rate of Progress and Program Pursuit rules in order to receive a TAP award for the next semester. "Rate of Progress" states that for each TAP award a student receives, he/she must have earned (passed) a certain number of credits before receiving that award. Not only must a student earn a certain number of credits, but the student must also have a certain grade point average (GPA) in order to receive the next semester's TAP award. The number of credits a student must earn (pass) and the grade point average he/she must have at the end of the next semester will be based on credits already earned and the number of TAP awards received.

CUNY Graduate Tuition Waivers

A limited number of partial waivers are made available to graduate students annually. Because demonstrated need is a criterion, interested matriculated students must file a CUNY FAFSA/FAF packet as well as a graduate tuition waiver form with the Financial Aid Office and register for at least 6 credits. Students in the School of Social Work should apply directly to Robert Salmon, Coordinator of Scholarships.

Graduate

To be eligible for payment number
you must have earned this minimum number of credits
with this minimum grade point average

1	2	3	4	5	6	7	8
0	6	12	21	30	45	60	75
0	2.00	2.50	2.75	3.00	3.00	3.00	3.00

TAP Program Pursuit (For Undergraduate and Graduate Students)

To be eligible for payment number
you must complete this minimum number of credits each semester

[illegible]

Federal Family Educational Loan Program (FFELP)

The Higher Education Amendments of 1992 renamed the Guaranteed Student Loan Program the Federal Family Education Loan Program (FFELP). The individual program names have been changed to the Federal Stafford Loan, The Federal Supplemental Loan to Students (SLS), Federal Parents Loan to Undergraduate Students (PLUS) and the Federal Consolidation Loan Programs.

Federal Stafford Loans are low-interest loans made to students attending school at least half-time. Loans are made by a lender such as a bank, credit union, or savings and loan association. These loans are insured by the guaranty agency in each state and reinsured by the federal government. You must repay this loan regardless of whether or not you are satisfied with your education.

Students can qualify for a Federal Stafford Loan based on financial need but, for periods of enrollment beginning on or after October 1, 1992, students can get a Stafford Loan regardless of their or their family's income. It's possible for a student to have a Federal Stafford Loan partly based on financial need and partly not on need.

If you have a need-based Federal Stafford Loan, the federal government pays the interest on the loan while you are in school or in deferment. These types of loans are called "subsidized" Stafford loans because the government pays the interest and therefore subsidizes or supports these loans. If you have a non-need-based Federal Stafford Loan, you have an "unsubsidized" Federal Stafford Loan, and you will be responsible for the interest during in-school deferment and forbearance periods. Note: This will increase the amount of your principal and you will pay interest on this.

If you get a Federal Stafford Loan or Federal SLS, you will pay an "origination fee" of 5 percent, which will be deducted proportionately from each loan disbursement made to you. This fee is passed on to the federal government to help reduce the government's cost for these loans. Your lender may also collect an insurance premium of up to 3 percent of the loan principal. This premium must also be deducted proportionately from each disbursement. If you get an unsubsidized Stafford Loan, you'll pay an origination/insurance "fee" of 6.5 percent, which will be deducted proportionately from each loan disbursement made to you.

Your need will be evaluated by a counselor. Before you receive a Federal Stafford Loan we will determine your eligibility for other types of financial aid. If you are eligible, the amount of your other aid will be considered in determining your financial aid package so that you will not be overawarded. You cannot borrow more than the cost of education at Hunter minus any other financial aid.

Graduate students can borrow up to \$7,500 a year. For periods of enrollment beginning on or after October 1, 1993, a student may borrow up to \$8,500.

The total debt for graduate or professional study is \$65,000, including any Federal Stafford Loans received as an undergraduate. (The total Federal Stafford Loan debt you can have outstanding as an undergraduate is \$23,000.) (These limits apply to loans first disbursed on or after July 1, 1993.)

From October 1, 1992 through June 30, 1993, the interest rate for a Federal Stafford Loan is 6.94 percent. Variable interest rates are set each June. (Treasury bill + 3.10%).

Federal Supplemental Loans for Students (SLS) are for student borrowers. These loans provide additional funds for education expenses and, like Federal Stafford Loans, are made by a lender such as a bank, credit union, or savings and loan association.

You can get a Federal SLS if you are an independent graduate or professional student, and you are enrolled at least half-time. Under

the Federal SLS you can borrow up to \$7,500 for each year of graduate study. For periods of enrollment beginning on or after July 1, 1993 graduate students may borrow up to \$10,000.

The total SLS debt you can have outstanding as a graduate or professional student is \$73,000 (including any SLS loans made at the undergraduate level).

Again, you cannot borrow more than the cost of education at your school minus any other financial aid you receive.

The interest rates on SLS loans first disbursed on or after October 1, 1992 will be variable, but not higher than 10 percent. From October 1, 1992 through June 30, 1993, the interest rate for a SLS is 7.36 percent. Variable interest rates are set each June. The organization that holds the loan will notify the borrower of later interest rate changes.

The lender may collect an insurance premium of up to 3 percent of the loan principal. This premium must be deducted proportionately from each disbursement.

Note to SLS applicants: Before you can receive a Federal SLS, your eligibility for a Federal Stafford Loan must be determined. If you are eligible for aid from this program, the amount you are eligible for may affect the amount you can borrow under SLS.

The applicant must be a US citizen or permanent resident enrolled in or admitted as a matriculated degree student registered for at least (6 credits or more per semester). The applicant must not be in default on a prior GSL or NDSL loan, and must not owe repayment on a federal aid program. All students must file a CUNY FAFSA/FAF packet.

If you get a Federal SLS, the lender sends the loan proceeds to your school in at least two payments. Your loan proceeds will be made payable to both you and Hunter College. Hunter will pay you directly, credit your account, or combine these methods. A 30-day wait also applies to first-time SLS borrowers who are graduate students.

Students may apply using the regular Stafford Loan Program application forms available from participating New York State lending institutions in addition to completing a CUNY FAF.

Federal Perkins Loans

The Federal Perkins Loan is a federally funded 5% loan available to matriculated students who are United States citizens or permanent residents enrolled for at least 6 credits per semester. Awards are made based on a student's financial need, as established by federal needs analysis methodology and availability of funds. Repayment and accrual of interest on the unpaid balance do not begin until 6 months after the student graduates or leaves school.

Application is made through the CUNY FAFSA/FAF packet available at the Financial Aid Office.

Federal College Work Study Program (FCWS)

The Federal College Work Study Program is a federally funded program that provides part-time employment to eligible students. Recipients are placed in jobs at the College or at public and non-profit agencies that have a current work-study contract with the University or Urban Corps. To apply for this program, students must be matriculated and enrolled for at least 6 credits. Eligibility depends on your financial need as determined by federal needs analysis methodology. A recipient may work up to 20 hours a week while attending classes. During the summer or other vacation periods when the student has no classes, he or she may work full-time, up to 35 hours a week. Hourly rates of pay vary depending on the placement.

Application is made through the CUNY FAFSA/FAF packet, which is available in the Financial Aid Office.

Taxability of Financial Aid

Certain portions of scholarships and other forms of student grants must be included in taxable income. This section of the catalogue provides you with general information on the impact of the Tax Act. It is not intended as a substitute for professional or legal tax advice, which you should seek on your own.

The Act limits the exclusion from taxable income of scholarships and fellowships received by *degree* candidates. Degree candidates may exclude only those portions of scholarship or fellowship awards received that cover tuition and course-related expenses (e.g., fees, books, supplies, and equipment required for courses of instruction). Under the Act, students who are *not* candidates for a degree lose all of their previously favorable tax treatment. No portion of a scholarship or fellowship received by a non-degree-candidate student can be excluded from taxable income.

In filing your federal tax form you will have to separate the taxable and non-taxable portions of your student aid and document permitted expenses. *Students are advised to maintain detailed records—to keep copies of relevant bills, receipts, cancelled checks, and other documentation* for payment of tuition and fees and purchase of books, supplies, and equipment.

You should also be alerted to the fact that, commencing in 1987, students whose parents claim them on their tax returns as dependents will no longer be able to claim themselves on their own personal returns.

The law is unclear in many respects, and it is expected that clarifying regulations will be issued. Students should direct specific questions about the new law to the local office of the Internal Revenue Service or to an appropriate tax advisor.

Emergency Loan Policy

The emergency loan program was established to assist students with immediate essential needs, such as carfare and lunch during the school day. The program makes provision for emergency loans to be given as a substitute for financial aid checks not available on distribution dates because of College error. Emergency loans cannot be given unless the student has a visible method of repayment. All loans must be repaid within 2 months from the date of issuance. All students receiving loans must sign an agreement giving power of attorney to the school. Emergency loans can not be given for the following purposes:

1. Transportation, other than to and from Hunter and/or work and home. Long-distance traveling expenses will not be considered for any situation.
2. Cars and related expenses, gifts, or vacations.
3. Payment of accumulated bills, charge accounts, medical expenses, utilities, rent, and similar items.
4. Security fees and real estate fees for apartments.
5. Payment of fees and/or tuition.
6. Graduate school application and test fees.

Counselors in the Financial Aid Office will help students look for suitable alternatives.

Special Note: The effective date of the above program descriptions is February. Subsequent legislative changes by the US Congress could alter the conditions of these programs. Check with the Financial Aid Office for updated information.

Students are encouraged to obtain a copy of The Student Guide, Financial Aid from the US Department of Education. Available in Room 241 North.

Additional information is available in the Financial Aid Office and in the library under "Personal Reserve: Scafidi-Leonard."

Graduate Assistantships

Graduate assistantships are available in some departments and are awarded to master's and doctoral students on the basis of academic qualifications. The duties of graduate assistants may include teaching, research, laboratory work, graduate program administration, and similar assignments as specified by the academic department. Students should contact their graduate advisors about such assistantships.

Social Work Fellowships and Grants

A number of tuition grants are awarded by the School. In addition, various public and voluntary agencies provide financial assistance in the form of stipends, scholarships, fellowships, and traineeships.

A scholarship fund has been established in honor of the late Dorothy L. Bernhard by members of her family; awards from this fund were made for the first time in September 1971. The Dorothy and Alfred Silberman Fund is a major source of the scholarship support for students of social work; recipients of this award are known as Silberman Scholars.

Inquiries concerning all types of financial assistance should be addressed to The Scholarship Committee, Hunter College School of Social Work, 129 East 79th St., New York, NY 10021.

Traineeships in Nursing

Traineeships are offered through grants from the US Department of Health and Human Services. Information may be obtained from the Office of Nursing Academic Support Services, Hunter-Bellevue School of Nursing, 425 East 25th St., New York, NY 10010.

Fellowships in Environmental Health Science

The School of Health Sciences has a number of fellowships offered by the National Institute of Occupational Safety and Health. This assistance is designed for students qualified to enter the master's program in industrial hygiene. For information write to: Director, Environmental Health Science Program, School of Health Sciences, 425 East 25th St., New York, NY 10010.

Veterans

A veteran who wishes benefits under the Veterans Readjustment Act of 1966 (Public Law 89) should consult the Veterans Administration.

The Ida and Daniel Lang Fellowship in the Humanities

One award is granted annually to a student of English literature, history, music, Romance languages, or theatre. Eligible students are nominated by their graduate programs, and the Ida and Daniel Lang Fellow is selected by the deans of humanities and the arts and the social sciences.



Divisional Scholarships

Endowment funds, established in the name of former Hunter College faculty members, provide scholarships for graduate students:

The Beatrice Goldstein Konheim Graduate Scholarship in the Life Sciences

The Harry L. Levy Graduate Scholarship in the Humanities and the Arts

The Mina S. Rees Graduate Scholarship in the Sciences and Mathematics

The Ruth G. Weintraub Graduate Scholarship in the Social Sciences

The George N. Shuster Master's Thesis Award

Contact divisional offices for further information.

Registration

Registration instructions are mailed to students accepted into or continuing in the graduate programs at Hunter College. All students are required to register in person. All registration is subject to space limitations and to adequate course registration. Enrollment in particular courses is subject to the stamped approval of the program advisor after it is determined that the student has adequate prior preparation.

A schedule of classes, giving the days and times when each graduate course will meet, is published prior to each registration.

Students Matriculated at Hunter Taking Courses at Other Institutions

Hunter graduate matriculants who want to take courses at one of the other units of The City University or at another university are required to file a Permit Application form. Forms may be obtained in the Office of the Registrar, North Building, Room 217.

Consult the current Schedule of Classes for additional information concerning taking courses on permit.

Students are responsible for having an official transcript of record sent to the Office of the Registrar at Hunter College from the other institution as soon as final grades are available. Students who expect to be graduated at the end of the current semester should not register at another institution in courses for which they expect Hunter College credit unless they ascertain that the final grades will be sent from that institution to Hunter in advance of the date of commencement.

Students Matriculated at Other Colleges of the City University

Students matriculated in a graduate program at any other branch of the City University who want to register for a course or courses at Hunter College are required to obtain a permit from their home institution giving them permission to pursue specified graduate courses at Hunter College. The permit must be filed with the Office of the Registrar, North Building, room 217, before registration.

Students who have registered in courses for the appropriate semester at their home colleges should also present their student receipts to the Office of the Registrar, North Building, room 217.

Maintaining Matriculation

A matriculated student who is not registered for any courses but is completing other degree requirements for graduation must complete the registration procedure by registering to maintain matriculation. A student must be registered for the semester of graduation but need not register for any semester during which no work is done toward graduation.

Leaves of Absence

Students who want a leave of absence for a specific period should apply for approval to their graduate advisor. Leaves are approved only for documented disabling illness, maternity, military service, or other unusual circumstances. Leaves may be approved up to a maximum of any 2 semesters (see Admission, page 5). Leave of absence forms may be obtained in the Registrar's Office, North Building, room 217.

Unapproved Leaves

Students failing to register for a regular semester will be dropped automatically from the active student file. If they wish to return, they must apply for readmission. In all cases of non-attendance, students must still observe the time limitations for the master's degree (see page 5).

General Information

Change of Name or Address

Any change of name or address should be reported at once to the Office of the Registrar and to the appropriate graduate advisor. In the case of a change of address, the post office at the former address should be notified to forward the mail.

Withdrawal from Courses

Any course from which a student officially withdraws after the 3rd week of courses and before Monday of the 10th week of the term will be recorded W, indicating that the withdrawal was without prejudice. Official withdrawal is accomplished by filing a withdrawal application in the Registrar's Office on or before the deadline. A student should notify the graduate advisor of any such course withdrawal.

After the 10th week of the term, all official withdrawals must have the approval of the graduate advisor on an official withdrawal form and be recommended for documented reasons of illness or serious personal emergency. Unofficial withdrawal will result in a grade of WU.

Grades

Grades in graduate courses are reported as follows:

- A = Excellent (90-100%)
- B = Good (80-89%)
- C = Poor (70-79%)
- F = Failure (0-69%)
- P = Satisfactory completion. Used only for the thesis research or equivalent course where required in the particular graduate program.
- IN = Incomplete
- W = Official withdrawal (without prejudice)
- WU = Unofficial withdrawal (counts as failure).

In the School of Social Work the H, CR, NCR grading system is mandatory. These grades, which carry no quality points, are assigned as follows:

- H= Honor
- CR= Credit
- NCR= No credit

The assignment of traditional letter grades in the School of Social Work may be arranged by consultation with the instructor at the beginning of each semester. A grade of Credit includes acceptable graduate-level work equivalent to a B or an A. The grade of Honor, rarely given, signifies unusual or outstanding work, well above the A level.

Students shall not be permitted to repeat courses in which they have previously received a grade of B or better. Courses in which a grade of C is earned may be repeated only with departmental permission. Credit for the repeated course will be counted in the GPA, but not toward graduation.

Minimum GPA for Retention

Both matriculated and non-matriculated students must maintain a minimum cumulative GPA of 3.0 to remain at Hunter College. Students whose grades fall below this standard are required to raise their GPAs to at least 3.0 within one semester.

After the posting of grades, the Registrar's office will notify graduate advisors of students whose GPAs fall below 3.0. Those students will receive warning notices that they have one probationary semester within which to raise their GPAs. Students who fail to raise their averages sufficiently will be dropped from their programs.

Minimum GPA for Graduation

Students will not qualify for a graduate degree, diploma or certificate unless, by the time of graduation, they achieve a cumulative GPA of 3.0 (B) in all graduate work taken at Hunter.

Incomplete Work in Course

Instructors may assign the grade IN, meaning that course work (examinations, assignments, classwork, lab work) was not completed. For an IN grade to be changed to a letter grade all required course work must be completed within one year after the IN grade is entered. If not changed to a letter grade within one year, the IN grade will become permanent. Penalties for lateness that were previously established for the course will remain in effect.

Students will have a maximum of one year to complete required course work, whether or not they are in attendance.

Instructors and departments may choose to have make-up final examinations administered by the College. Such examinations will be given before the Monday of the 7th week of the following semester. It is the responsibility of the student who must take a make-up examination to determine from the instructor or department whether it will be administered by the College, and to file the appropriate form and pay any required fee by the deadline specified by the College.

Credit

In general one credit represents 15 semester hours of classroom work or 30 semester hours of laboratory work or the equivalent.

Students are automatically classified as full-time during any given semester if they are taking 12 credits. They may be certified full-time if they are taking fewer than 12 credits but are pursuing additional academic work that is required for the degree and that amounts to full-time study, such as preparing for comprehensive examinations, writing a thesis, teaching on a fellowship, student teaching, or undertaking an internship or fieldwork under faculty supervision. Students who believe they qualify for certified full-time status and wish to protect their status as full-time because of eligibility requirements for financial aid must ask their graduate advisors to verify the full-time nature of their academic work and to make a recommendation on this matter to the Registrar prior to the beginning of classes of each semester.

Notification

This catalog is published every three years, and some of the material may become outdated. For updated information, please contact the Office of the Registrar or the specific school or department of interest.

Academic Honesty

Any deliberate borrowing of the ideas, terms, statements, or knowledge of others without clear and specific acknowledgement of the source is intellectual theft and is called plagiarism.

It is not plagiarism to borrow the ideas, terms, statements, or knowledge of others if the source is clearly and specifically acknowledged. Students who consult such critical material and wish to include some of the insights, terms, or statements encountered must provide full citations in an appropriate form.

The Hunter College Senate

The Hunter College Senate was established in 1971 as the legislative body of the College with authority for determining College policy in matters related to:

Curriculum
Academic Requirements and Standards
Instruction and the Evaluation of Teaching
College Development

Representatives of the faculty, student body, and administration constitute the voting membership of the Senate. Of the 200 seats on the Senate, 22 seats are reserved for graduate students. Faculty senators are elected by the individual departments and serve for a term of 2 years. The elected officers of the Senate include the chairperson, vice-chairperson, and secretary, and the chairperson of the Evening Session Council—who are the members of the Senate Administrative Committee.

Regular meetings of the Senate are planned for 2 hours and are held once a month. Additional monthly meetings are called as needed. Election of faculty and student members occurs during the spring semester.

Twelve standing committees (including a Committee on Graduate Course of Study and on Graduate Academic Requirements) and a varying number of ad hoc committees accomplish much of the work of the Senate. Membership on committees is open to all faculty and students. Members are elected by the full Senate from recommendations of the Nominating Committee and by nominations from the Senate floor.

Faculty members and students are encouraged to become involved in the meetings of the Hunter College Senate and its committees. Further information may be obtained by visiting the Senate Office, East Building, room 1018; telephone 772-4200.

Hunter College Ombudsman

The Ombudsman is empowered by the Hunter College Governance Charter to investigate complaints and grievances by any member of the College community (student, faculty, staff, or administration) about a problem or condition in the College. When requested and where possible, the anonymity of a complainant will be protected and names will not be used in any reports the Ombudsman may make.

When someone feels unfairly treated or unjustly disadvantaged, the Ombudsman can advise the person of the available appeals procedures, recommend corrective action to be taken by the appropriate College officers, or recommend changes in College procedures or regulations that would eliminate such injustices in the future.

The Ombudsman's office is in the East Building, room 1015; telephone 772-5203.

Student Services and Facilities

Academic Computing Services

Academic Computing Services administers eight IBM- and Macintosh-based instructional laboratories and classrooms, a small faculty/advanced graduate student lab and information center, a number of college- and university-wide software site licenses and micro hardware discount programs, and access to the university mainframe system. The faculty/advanced graduate student facility includes CD-Rom and Laserdisk players as well as a text and graphics scanner. Hunter students, faculty, and staff have access to the large University Computer Center mainframe system through terminals on campus. Primarily an IBM 3090-based facility with VM/XA SP, CMS and batch processing through MVS, this system provides worldwide electronic mail links through Bitnet/Internet and interactive remote logon through the tcp/ip Telnet protocol. High-speed communication with this facility is available through the labs in this department and through direct dial-up links. Staff members are available for consultation on research projects involving computer use.

The offices of Academic Computing Services are located in the North Building, Room 1001. All staff can be reached at 772-5525. Reservations for the faculty lab can be made at 650-3715. The department FAX number is 772-5797.

Auditoria

Hunter College Assembly Hall The Hunter College Assembly Hall seats 2,185 and is suitable for concerts, lectures, films, commencements, and a variety of programs.

The Sylvia and Danny Kaye Playhouse The Sylvia and Danny Kaye Playhouse seats 664 and has full stage facilities for theatrical and operatic productions, recitals, chamber music performances, lectures and film screenings. For information, call 772-5207.

The Little Theatre This variable space, which seats up to 125 people, is the production center for the Department of Theatre and for the Hunter Playwrights Project.

Career Development Services

Career counselors assist graduate students and alumni of graduate programs in planning for and obtaining full- and part-time positions. Employer contact is maintained with academic institutions, business, industry, government, and non-profit organizations.

A wide variety of general career information is available to students in the Career Reference Library: reference books, current publications in business, directories, recruiting literature, company annual reports, and employment guide books about career planning and job search strategies.

The Career Development Office is located in the East Building, room 812; for more information, call the office at 772-4850.

Reading/Writing Center

The Hunter College Reading/Writing Center consists of a reading resource room, two classrooms for computer-assisted instruction (CAI), one room equipped with computers for tutorial instruction and two additional rooms for tutorial assistance. The Reading Resource room is used in conjunction with courses in Developmental English. The CAI classrooms are used for a variety of English and Academic Skills courses and are also available for general use every day. The highly regarded tutorial programs of the

Hunter College Writing Center, which are conducted in the three remaining rooms, are open to students at all levels on an individual appointment basis. Students may choose a regularly scheduled series of meetings with a tutor or they may make a single appointment to discuss a particular writing assignment.

The Reading/Writing Center is located on the fourth floor of Thomas Hunter Hall. The telephone number is 772-4212.

Disabled Student Services

Assistance is available to help give students with disabilities an accessible learning environment. Any student with a medical condition, or a physical or psychiatric disability, is eligible for services. This also includes people with learning disabilities, side effects of medication, or AIDS/ARC, and those recovering from chemical dependency.

Services include registration assistance (after course approvals have been obtained from the department), alternate testing, readers, notetakers, interpreters and proctors. There are 3 student clubs: the day and evening Disabled Student Organizations and Challenge—the Learning Disabled Organization.

Equipment includes Visualtek machines (print enlarger), large print computer, voice synthesizer, braille printer, adjustable height computer work stations, portable science laboratory stations, wireless auditory assistance kits, telephone devices for the deaf, magnifier table, large print dictionaries, large print typewriter, Versabril system, braille writer, 4-track tape recorders, and public phone amplifiers. Computer accessibility for the blind and visually impaired is also available. Individual reading rooms are available on the 2nd floor of the Wexler Library in the East Building.

The Disabled Student Study Center is located in Thomas Hunter Hall, room 205. Drop-in assistance with reading or assignments is available. Typewriters, computers, a voice synthesizer, and large-print software are available for students' use. For further information, call 772-5478.

The Department of Health and Physical Education conducts an adapted physical education program (Project Happy) for disabled young adults on Saturdays from 11 am-3:00 pm at the Brookdale Campus, 425 East 25th St. Swimming, bowling, wheelchair sports, and various other sports activities are available. Contact the department chair, West Building, room 1130; telephone 772-4640.

For information, contact the Disabled Students Coordinator in Student Services, East Building room 1121; phone 772-4888.

There is a 504 Grievance Procedure for disabled students at Hunter College. Students can obtain the necessary form, which contains instructions for filing, from Student Services, East Building room 1121.

The Section 504 Coordinator at Hunter College—Professor Tamara M. Green—is responsible for policies related to the disabled. She can be contacted in the West Building, room 1425A; phone 772-5061.

General and Psychological Counseling

It is not unusual for graduate students to experience problems which involve both their own search for identity and their relationships with other people. Speaking with a trained counselor for just a few sessions often can make a great difference. When appropriate, counselors will assist students to arrange for professional help outside the College at a price they can afford. All meetings with counselors are confidential.

Appointments may be made with counselors in the Office of Student Services, East Building, room 1119.

Dormitory Facilities

The Hunter College Residence Hall is located at 425 East 25th St. and houses 519 undergraduate and graduate students. All rooms are single occupancy and contain basic furnishings. Each floor has a main lounge, bathroom facilities, and a kitchen.

There is a \$50 application fee. For more information, contact the Residence Hall Office.

Graduate Students Association

All registered graduate students except those who do not pay the student fee because they are "maintaining matriculation" are members of the Graduate Students Association (GSA) and may use the services provided by the Association, which include use of the graduate lounge and attendance at departmental colloquia and special departmental projects and events.

Every fall each graduate department or program elects a representative to the GSA Senate. GSA members may serve on the Hunter College Senate and on many College committees. A GSA delegate also participates in the University Student Senate. Copies of the GSA constitution and additional information may be obtained from the GSA Office. Graduate students are encouraged to participate actively in the affairs of the Association. For information, call 772-4309.

Hunter Galleries

The Bertha and Karl Leubsdorf Art Gallery, located at the main campus, houses professionally organized exhibits that support the educational programs of the Art Department of Hunter College.

The MFA Gallery, located at 450 West 41st Street, is a 5,000-sq.-ft. space renovated by graduate students and faculty. The entire exhibition program maximizes student and faculty participation to expand the parameters of the graduate programs in both fine arts and art history.

Hunter Playwrights Project

Worthwhile scripts by advanced writers in the Hunter graduate theatre program are given workshop production by professional actors and directors. This plan allows student playwrights to see their works in production, to learn from the rehearsal process, and to make revisions based on performances. The workshop performances are given several times a year in the studios of the Department of Theatre and in the Little Theatre.

The Language Laboratory

North Building, Room 1239 phone 772-5700/5701

The Language Laboratory serves students taking foreign language courses as well as students enrolled in courses in communications, English as a Second Language and linguistics. Its holdings include over a thousand audio tapes and some video cassettes designed to assist elementary and intermediate students in the preparation of their daily assignments. More advanced students have at their disposal a library of taped literary works and a limited collection of movies on videos.

Hunter College Libraries

The collections of the Hunter College Libraries are housed in the Jacqueline Grennan Wexler Library in Hunter East, in the branch libraries at the Schools of Health Professions and Social Work, and in the Art Slide Library in Hunter North. The library resources of Hunter College reflect Hunter's status as a senior college of The City University of New York. The libraries hold 700,000 volumes, 4000 periodicals, and a nonprint collection of 900,000 microforms, 130,000 art slides, in addition to records, tapes, scores, music CDs, and videos.

The Libraries provide access to the majority of their collections through CUNY+, an automated library system which also provides access to other CUNY library collections as well as indexes to periodical articles. Dial access is available to users with modems.

The main library occupies nine floors in Hunter East (B2-7), with the entrance on the third floor opposite the connecting walkway to Hunter West. Third-floor services include Circulation, CUNY+, Information Desk, CD-ROM Center, Document Delivery/ILL services for faculty and graduate students, and the research library of

the Center for Puerto Rican Studies. Fourth-floor services include Reference, CD-ROM and CUNY+ terminals, and the Microform Center. The fifth floor houses bound and current issues of periodicals in all subject fields, except the sciences. The sixth floor is devoted to science monographs and periodicals. The second floor houses Reserve, Archives and Special Collections, music and video collections, listening/viewing stations, and the library administration offices. Education books and teacher-education materials are found on Floor 1. Floor 7 houses the history and art collections and a Library Computer Lab where users may access CUNY+, the CD-ROM network, and word-processing programs. Floors B1 and B2 are open-stack floors containing the balance of the circulating collection in the humanities and social sciences. Study areas can be found on all nine floors of the library and a limited number of study rooms can be reserved through the Reserve Desk on Floor 2.

Teacher Placement

The Office of Teacher Placement provides professional teacher placement services. For details, see Education section.



Anthropology

Chair Gregory A. Johnson, North Building room 723 phone 772-5410
Graduate Advisor Daniel Bates, North Building room 712
 phone 772-5646

FACULTY

Daniel G. Bates, Professor; PhD, Michigan; Ecological Studies, Economic and Political Anthropology, Middle East
Edward H. Bendix, Professor; PhD, Columbia; Linguistics, Semantics, Creole Languages, Nepal
Timothy G. Bromage, Associate Professor; PhD, Toronto; Biological Anthropology, Dental Morphology
Francis P. Conant, Professor; PhD, Columbia; Cultural Anthropology, Ecology, Africa, Satellite Sensing of Subsistence Systems and Settlements
Gerald W. Creed, Assistant Professor; PhD, CUNY (Hunter); Eastern European Societies, Slavonic Studies, Political/Economic Anthropology, Eastern Europe
Adrian W. DeWind, Jr., Associate Professor; PhD, Columbia; Haiti, Caribbean, Development
Carol R. Ember, Professor; PhD, Harvard; Psychological Anthropology, Social Organization, Cross-cultural Research, Quantitative Methods
Rena Gropper, Professor Emeritus; PhD, Columbia; Medical Anthropology, Gypsies, South Asia, Tibet, Anthropological Practice
Gregory A. Johnson, Professor; PhD, Michigan; Archaeology, Complex Societies, Middle East
Susan H. Lees, Professor; PhD, Michigan; Ecological Studies, Economic Anthropology, History of Anthropological Theory, Peasant Studies, Mesoamerica
Louise Lennihan, Associate Professor; PhD, Columbia; Agrarian Society, Economic Anthropology, Development, Social History, Africa
Thomas H. McGovern, Professor; PhD, Columbia; Archaeology, Paleoeecology, Faunal Analysis, Norse and Inuit Cultures
Sally McLendon, Professor; PhD, California, Berkeley; Linguistics, Stylistics, Text Analysis, North America
John F. Oates, Professor; PhD, London University; Physical Anthropology, Primatology, Ecology
William J. Parry, Associate Professor; PhD, Michigan; Southwest US, Mesoamerica, Lithic Analysis, Hunter Gatherers
Burton Pasternak, Professor; PhD, Columbia; Kinship and Social Organization, Ecology, China
Frederick Szalay, Professor; PhD, Columbia; Evolutionary Morphology of Fossil and Living Primates, Mammalian Systematics

MASTER OF ARTS

The Department of Anthropology at Hunter College offers the only master's program in general anthropology within the City University. The program has a commitment to a 4-field approach to graduate training, requiring a substantial background in ethnology, physical anthropology, anthropological archaeology, and anthropological linguistics, in order to prepare students for flexibility in future careers in research, teaching, and related fields.

The entire program is scheduled in the evening, to accommodate students who hold full-time jobs.

Virtually all students who complete the MA program and who apply are admitted to PhD programs at other institutions. A substantial proportion of MA students are accepted in PhD programs before completing requirements for the Hunter MA. Many students go on for training in the doctoral program in anthropology at the CUNY Graduate School and University Center. Hunter MA students may take courses at the Graduate School. Most of the Hunter anthropology faculty are also members of the faculty of the Graduate School doctoral program in anthropology.

Students are encouraged to participate in faculty research, much of which is externally funded, providing limited opportunities for part-time employment. Write or telephone the graduate advisor for further information.

Departmental Requirements for Admission

In addition to general requirements for admission, students must have at least 9 credits in undergraduate anthropology or a related field, although in special cases this requirement may be waived.

Departmental Requirements for the Degree

1. A minimum of 30 cr beyond the BA.
2. The program of study must be chosen to fulfill a general knowledge in all 4 fields of the discipline. The four fields are: Anthropological linguistics, anthropological archaeology, biological anthropology, and ethnology.
3. The following courses are required: ANTH 701 (Ethnology), ANTH 750 (Archaeology), ANTH 770 (Linguistics) and ANTH 790 (Biological Anthropology). The final examination in each of these courses will be the qualifying exam for each of the four fields and will be graded by two faculty members. Students are strongly advised to complete these courses early in their graduate training. Overlaps in undergraduate and graduate course requirements for BA/MA students may justify some adjustments in consultation with the Graduate Advisor on a case-by-case basis, but qualifying exams will be required in any case.
4. A reading knowledge of at least one foreign language appropriate to the field of specialization or a demonstrated competence in statistics.
5. A master's thesis.

COURSE LISTINGS

Each course 45 hrs, including conferences, 3 cr. All students must consult with the graduate advisor before registering for any course.

Ethnology

ANTH 701 Ethnology (Core Course) Surveys history, methods, theory, and basic findings of cultural and social anthropology.

ANTH 702 Seminar in Ethnology

ANTH 703 History of Anthropological Theory Treatment of major currents and schools in anthropological thought from 19th century to present.

ANTH 704 Field Research Introduces basic techniques of ethnographic research including a practical exercise carried out under supervision.

ANTH 705 Quantitative Methods Covers basic statistical concepts and techniques so that students can analyze their own data, develop knowledge of more advanced techniques, and evaluate published research.

ANTH 707 Kinship and Social Structure Comparative analysis of kinship systems including kinship terminology, descent groups, family and household forms, and various models of explanation.

ANTH 708 Religion and Ideology Comparative analysis of religious beliefs and practices, cosmology, and other aspects of ideology, especially in non-western societies.

ANTH 709 Folklore and Mythology Anthropological approaches to oral, visual, and musical traditions as they occur in a popular, non-professional context.

ANTH 710 Psychological Anthropology Factors related to cross-cultural variation in personality, including male-female relationships and sexual preferences. Psychological explanations of different customs (initiation, folktales, games).

ANTH 711 Economic Anthropology Analysis of cultural varying systems of production and exchange with emphasis on sources of change in developing world.

ANTH 712 Hunters and Gatherers Analyzes both modern and prehistoric foraging societies with particular emphasis on ecological approach.

ANTH 713 Peasant Societies Comparative study of contemporary and historic rural, agrarian populations in terms of ecology, economics, social organization, and world view.

ANTH 714 Cross-cultural Research Readings on, and discussions of, objectives, methods, and achievements of cross-cultural research.

ANTH 715 Cultural Ecology Evolutionary view of interactions of human populations and their environment with emphasis on processes of cultural adaptation.

ANTH 716 Medical Anthropology Health and disease viewed comparatively in terms of how societies perceive, explain, prevent, and treat illness.

ANTH 717 Human Population Dynamics Basic principles of small population dynamics with emphasis on population response to changes in family structure, labor demand, and mode of production.

ANTH 718 Applied Anthropology Cross-cultural aspects of development work in US and abroad. Theoretical foundations and practical aspects with emphasis on necessary ancillary skills.

ANTH 720 Political Anthropology Examination of different systems of political organization with emphasis on tribal and peasant societies.

ANTH 721 Anthropology of Art Comparative study of expressive culture in western and non-western societies with special emphasis on plastic arts.

ANTH 725 Sex and Gender in Anthropological Perspective Reading and research on human sexual dimorphism, reproductive behavior, and cultural conditioning of gender roles.

ANTH 726-745 Ethnology and Ethnography of Selected Areas Each of the following courses presents an ethnographic survey of cultural variation in a specific world region and treats in depth some of the major ethnological problems arising in that region through readings, guided research, and discussion.

- ANTH 726 Ethnology of Africa**
- ANTH 727 Ethnology of Europe**
- ANTH 728 Ethnology of Near East**
- ANTH 729 Ethnology of Southeast Asia**
- ANTH 730 Ethnology of China and East Asia**
- ANTH 731 Ethnology of Caribbean**
- ANTH 734 Ethnology of South America**
- ANTH 735 Ethnology of North American Indians**

Archaeology

ANTH 750 Archaeology (Core Course) Introduces basic theory, method, and findings of prehistoric archaeology in an anthropological framework.

ANTH 751 Seminar in Archaeology Each of the following advanced seminars deals with a set of theoretical and methodological topics related to current developments in archaeology:

Regional Analysis - a survey and discussion of approaches to the analysis of ancient settlement patterns.

Faunal Analysis - an introduction to methods and theoretical problems involved in the use of animal bone evidence for prehistoric economies.

Analytical Methods - an introduction to a range of methods of data management and analysis in archaeology; includes training in the use of microcomputers.

Field Methods - an introduction to the problems of practical field research design in archaeology and basic field techniques. Use of basic surveying equipment is covered, with extensive hands-on experience provided.

ANTH 756 Prehistoric Human Ecology Problems in analysis of interaction of human economies and changing natural environments. Archaeological view of human role in various ancient ecosystems.

ANTH 758 Rise of Civilization Theoretical and empirical investigation of evolution of urbanism and state in both hemispheres.

ANTH 759-769 Archaeology of Selected Areas Each of the following courses presents a survey of the archaeology of a particular world region and treats some major questions which arise in that context.

- ANTH 759 Archaeology of Europe**
- ANTH 760 Archaeology of Africa**
- ANTH 761 Archaeology of Near East**
- ANTH 762 Archaeology of New World**
- ANTH 763 Archaeology of Mesoamerica**

Linguistics

ANTH 770 Linguistics (Core Course) Structure of verbal behavior. Analytic description of phonology, grammar, semantics, pragmatics. Language in social action. Language prehistory.

ANTH 771 Seminar in Linguistics

ANTH 772 Phonological Analysis and Theory Prereq: ANTH 770 or perm instr.

ANTH 773 Grammatical Analysis and Theory Prereq: ANTH 770 or perm instr.

ANTH 775 Linguistic Field Techniques and Methods Prereq: ANTH 770 or perm instr.

ANTH 776 Cognitive Anthropology Structuring of society and culture by means of linguistic meaning in communicative interaction.

ANTH 777 Language and Culture Role of language, dialect, and bilingualism in social life, including language of politics, language in education, language variation as related to context, sex, status, topic, etc.

ANTH 778 Seminar in Sociolinguistics Selected topics in language and society, such as language and ethnicity, bilingualism, language contact, creole languages, etc.

Biological Anthropology

ANTH 790 Biological Anthropology (Core Course) An introduction to the biology and evolutionary history of humans, including evolutionary theory, genetics, morphology, primate behavior, sociobiology, and paleontology.

ANTH 791 Seminar in Biological Anthropology

ANTH 792 Human Ecology and Population Dynamics From viewpoint of biological anthropology, course examines environmental factors that affect distribution, growth, and senescence of human populations.

ANTH 793 Human Evolutionary Genetics Analysis of distribution of contemporary human populations and microevolutionary processes that underlie human variability.

ANTH 794 Primate Ecology and Behavior Focuses on social behavior of wild populations of infra-human primates in relation to environment in terms of size, age-sex composition, interaction patterns, communication, reproduction patterns, etc.

ANTH 795 Primate Paleontology Survey of primate evolutionary history using fossil evidence to interpret adaptations and phylogenetic relationships of prosimians, monkeys, and apes.

ANTH 799 Human Fossil Record Fossil evidence on human evolution from Pliocene *Australopithecus* to modern *Homo sapiens*. Considers paleoecology, morphology, chronology, and phylogeny.

Thesis

ANTH 706 Master's Thesis Seminar Individual research under supervision, limited to students matriculated in the MA program. Credit awarded upon approval of master's paper.

Independent Study or Research

ANTH 785,786 Independent Study or Research in Anthropology 3 cr each. Directed research in any of the 4 subdisciplines on topic chosen by student. Perm instr and grad advisor required prior to registration.

Art

Chair Sanford Wurmfeld, North Building room 11054N phone 772-4990
Graduate Advisors Antoni Milkowski (Studio and TEP); Lisa Vergara (Art History), North Building room 11061 phone 772-5052/3

FACULTY

STUDIO

Andrea Blum, Assistant Professor; MFA, Art Institute of Chicago
Joel Carreiro, Assistant Professor; MFA, Hunter
Susan Crile, Associate Professor; BA, Bennington
Roy DeCarava, Distinguished Professor; Cooper Union
Mark Feldstein, Professor; MA, Hunter
Julius Goldstein, Professor Emeritus
Ron Gorchov, Associate Professor; Art Institute of Chicago, Illinois
George Hofmann, Associate Professor; Akademie der bildenden Kunst, Nuremberg
Robert Huot, Professor Emeritus
Valerie Jaudon, Professor; St. Martins School of Art, London
Doris Kennedy, Professor Emeritus
Lyman Kipp, Professor Emeritus
Vincent Longo, Professor; Cooper Union
Antoni Milkowski, Professor; BA, Kenyon
Robert Morris, Professor; MA, Hunter
Douglas Ohlson, Professor; BA, Minnesota
Anthony Panzera, Professor; MFA, Southern Illinois
Susan Peterson, Professor; MFA, New York State College of Ceramics
Juan Sanchez, Assistant Professor; MFA, Rutgers University
Robert Swain, Professor; BA, American University
Thomas Weaver, Assistant Professor; MFA, Hunter
Mac Wells, Professor; BA, Oberlin
Sanford Wurmfeld, Professor and Chair; BA, Dartmouth

HISTORY AND CRITICISM

William Agee, Professor; MA, Yale; 20th-Century American Art; Theory and Criticism
Ulku Bates, Professor; PhD, Michigan; Islamic Art
Emily Braun, Assistant Professor; PhD, NYU; 20th-Century Art
Janet Cox-Rearick, Professor; PhD, Harvard; Italian Renaissance and Mannerist Art
M. D'Ancona, Professor Emeritus
Wayne Dynes, Professor; PhD, NYU; Medieval Art, 20th-Century Theory and Criticism
E. C. Goossen, Professor Emeritus
Mary Moore, Professor; PhD, NYU; Greek and Roman Art
Jane M. Roos, Assistant Professor; PhD, Columbia; Modern Painting and Sculpture
Richard Stapleford, Professor; PhD, NYU; History of Architecture; Late Antique-Early Medieval Art
Lisa Vergara, Associate Professor; PhD, Columbia; Baroque and Northern Renaissance Art

The following programs are offered:

MASTER OF ARTS IN ART HISTORY

Hunter College is situated in close proximity to a range of resources unmatched anywhere for the study of art history: a host of outstanding museums, galleries, and specialized research libraries; lecture series in art history at Hunter and other area graduate programs; and presentations of international performance art, dance, drama, film, video, and music, new and old.

The MA in art history, granted by Hunter College since 1952, serves as a degree for professional work in galleries, arts organizations, and art publishing, and as an interim degree leading to doctoral study.



Admission Requirements: The applicant must have completed at least 18 cr of undergraduate courses in art history. Reading knowledge of a foreign language (French, German, or Italian), is required. All supporting material requested by the college's Graduate Admissions Office (GRE score, official transcript, 2 letters of recommendation) should be supplied as soon as possible.

MA Application Deadlines: for fall admission, March 1; for spring admission, October 1.

Departmental Requirements for the MA in Art History (30 cr)

1. **Course Distribution:** At least one course must be taken in art historical theory, methodology, or historiography, such as ART H 602, ART H 734, or a special topics course directly related to one of the three areas. In addition, at least one course must be taken in each of three of the following areas:
 - (a) Ancient or Medieval Art
 - (b) Renaissance, Baroque, or 18th-Century Art
 - (c) Modern (19th- or 20th-Century) or American Art
 - (d) Non-Western Art
2. With the permission of the Graduate Advisor, candidates for the MA in art history may take up to 6 cr in studio courses or in courses in related areas.
3. No more than 9 cr may be taken at an outside institution (including The City University Graduate School and University Center) for credit toward the MA in art history.
4. **Foreign Language:** Each student must demonstrate reading knowledge of French, German, or Italian. The language examination is given in the fall and spring semesters. Dates will be posted.
5. **Comprehensive Examination:** A written examination in the history of art is required of all candidates and is given in the fall and spring semesters. Dates will be posted.
6. **Mid-program Evaluation:** The progress of each student will be reviewed upon the completion of 15 cr. At this point, a student must have passed the Comprehensive and Foreign Language Examinations.
7. Students with 6 cr of IN ("Incomplete") will not be permitted to register for courses.

8. Master's Thesis: A thesis is required. ART H 799 Thesis Research (3 cr) is an elective.

NOTE: ART H 602 (Research Methods of Art History) may be required, upon the recommendation of the Graduate Advisor.

For further information write Prof. Lisa Vergara, Graduate Advisor, Art History Program.

MASTER OF FINE ARTS IN CREATIVE ART

Hunter's ideal location in Manhattan offers students and faculty many sources of intellectual, cultural, and creative activity. In New York, as nowhere else, the student has access to the changing ideas and forms of contemporary art. This is crucial to the achievement of our educational goal — to develop professional artists capable of continued growth once they leave the relatively structured university environment. The program is designed to offer broad training for the artist in the development of critical and analytical visual thinking. In this programmatic context students are encouraged to develop their own art through constant peer contact in the studios, individual work with faculty tutors, critical seminars focusing on student work, and classes in the theory, criticism and history of art. In addition, many artists, curators, critics, and historians are invited to meet with students.

Admission Requirements: The applicant must have completed at least 24 cr of undergraduate courses in studio art and 9 cr in art history.

Applicants must obtain a formal application from Hunter Graduate Admissions. This application, with all supporting materials, must be filed with the Admissions Office prior to the February 1 deadline. In addition, applicants must obtain from the Department of Art the MFA Program Guide, which explains additional requirements for MFA applicants. The following materials should then be mailed directly to the Studio Graduate Advisor, Department of Art, 695 Park Avenue, New York, New York 10021 prior to the deadline:

- Information sheet (page 2A, MFA Program Guide)
- Statement of purpose (optional)
- Resume (optional)
- 10 slides of current work, with slide list, or portfolio

The Art Department Graduate Admissions Committee will select finalists for admission to the MFA program. All finalists will be scheduled for an interview. Final decisions will be determined by mid-April.

MFA Application Deadline: Feb. 1 for admission in the following academic year.

Departmental Requirements for the MFA in Creative Art (48 cr)

Each candidate for the MFA must select one field of concentration in studio art: painting, sculpture, graphics, photography, ceramics, or combined media, and present an MFA project in that area.

Candidates must complete 48 cr, distributed as follows:

18 cr of participation in the seminar/tutorial section for that area of concentration during each of three semesters;

6 cr in the MFA course for the completion of the MFA project (ARTCR 791) under the guidance of a faculty tutor;

9-15 credits of studio electives (exclusive of the area of concentration);

9-15 credits of liberal arts electives, primarily courses in the history, theory, and criticism of art.

All students are provided individual work spaces in the MFA Studio Building and are required to work in them throughout their residency. There are four floors (approximately 10,000 sq. ft. each) for student studios, seminar rooms, and workshop and exhibition areas.

The regular curriculum will be supplemented by a monthly lecture series, providing a forum for the presentation of aesthetic ideas by artists, critics, historians, and resident faculty.

Foreign Exchange Program Two MFA students each year are selected to receive stipends for a period of one semester at either the Ecole des Beaux-Arts in Paris or the Slade School, University of London.

Apprenticeships Students can sometimes fulfill a portion of their degree requirements through teaching assistantships with faculty or studio apprenticeships with approved artists.

Facilities The Department functions in two main locations, the main campus at 68th Street and Lexington Avenue, and the MFA Studio Building at 450 West 41st Street. The North building at 68th Street houses the administration and the library and has fully equipped, newly renovated workshops on the 11th floor in photography, graphics, metal, wood, plaster, computer graphics, and general painting studios. The basement of Thomas Hunter Hall, the adjacent building, houses the clay workshop.

Galleries The Bertha & Karl Leubsdorf Art Gallery, located at the main campus, houses professionally organized exhibits that support the educational programs of the Art Department of Hunter College. The MFA Gallery, located at 450 West 41st Street, is a 5,000-sq.-ft. space renovated by graduate students and faculty. The entire exhibition program maximizes student and faculty participation to expand the parameters of the graduate programs in both fine arts and art history.

Scholarships and Travel Grants The Esther Fish Perry Award for outstanding students is given each year to an MFA student in the final year of study. Enrolled students are encouraged to apply for the William Graf Travel Grant: approximately two awards of up to \$1200 each are given every semester to an MA and MFA student. Tony Smith Awards are given to students at the discretion of faculty.

MA PROGRAM FOR SECONDARY SCHOOL TEACHERS OF ART (30 cr)

This program is designed for students who already hold New York State provisional certification to teach art.

Admission Requirements: The applicant must have completed the required number of undergraduate education courses. (See additional requirements listed in the Education section of this catalog.) In addition, admission requirements for the MFA in Creative Art must be followed. (See above under MFA in Creative Art.)

Application Deadline: Feb. 1 for admission in the following academic year.

Departmental Requirements for the MA for Secondary School Teachers of Art (30 cr)

Students in this curriculum are required to complete a program with the following distribution of credits:

1. 6 cr in the history of art: ART H 621 Modern Art I (3 cr) and additional credits to be selected.
2. 9 cr in studio art.
3. ARTCR 790 Thesis Project (3 cr).
4. 6-9 cr in professional education courses (see Education section).
5. 6 elective cr to be selected under advisement.

Note: The department reserves the right to retain student work for purposes of exhibition and for illustrative material for classroom use. This work may be returned at graduation upon application to the instructor. The department is not responsible for work and projects left beyond the date assigned for removal.

COURSE LISTINGS

Each course 45 hrs, 3 cr, unless otherwise noted.

Studio Courses

ARTCR 601 Advanced Problems in Design Studio for design with emphasis on contemporary concepts. Students are given opportunity to carry out problems in a specialized field of design.

ARTCR 611, 612, 613 Advanced Painting I, II, III Individual tutorial with full-time faculty member. MFA majors in painting only.

ARTCR 621, 622, 623 Advanced Sculpture I, II, III Development of creative expression in sculpture, including research projects in various media. Individual tutorial with full-time faculty member. MFA majors in sculpture only.

ARTCR 625, 626, 627 Advanced Graphic Arts I, II, III Woodcut (black and white and color) printing. Soft ground and hard ground etching. Aquatint. Line engraving on metal. Dry point. Color printing with metal; surface printing offset, and intaglio color from traditional to latest experimental methods. Individual tutorial with full-time faculty member. MFA majors in graphics only.

ARTCR 629 Combined Media Explorations in various experimental media such as environmental, conceptual, film, video, etc. Individual tutorial with full-time faculty member.

ARTCR 631, 632, 633 Advanced Photography I, II, III Advanced projects in photography ranging from photojournalism through formal and experimental multimedia imagery. Individual tutorial with full-time faculty member. MFA majors in photography only.

ARTCR 635, 636, 637 Advanced Ceramics I, II, III Individual tutorial with full-time faculty member. MFA majors in ceramics only.

ARTCR 640, 641, 642 Advanced Drawing I, II, III A studio elective for MFA students.

ARTCR 651, 652, 653 Seminar in Two-dimensional Art I, II, III Coreq: to be taken simultaneously with ARTCR 611, 612, 613 (Advanced Painting I, II, III), ARTCR 625, 626, 627 (Advanced Graphic Arts I, II, III), ARTCR 631, 632, 633 (Advanced Photography I, II, III), or ARTCR 640, 641, 642 (Advanced Drawing I, II, III). A weekly seminar to discuss students' work and related topics.

ARTCR 655, 656, 657 Seminar in Three-dimensional Art I, II, III Coreq: to be taken simultaneously with either ARTCR 621, 622, 623 (Advanced Sculpture I, II, III) or ARTCR 635, 636, 637 (Advanced Ceramics I, II, III). A weekly seminar to discuss students' work and related topics.

ARTCR 661 Seminar in Combined Media Coreq: to be taken simultaneously with ARTCR 629 (Combined Media). A weekly seminar to discuss students' work and related topics.

ARTCR 750 Independent Study in Studio Art 1, 2, or 3 cr. Prereq: perm grad advisor. (Course restricted to TEP students)

ARTCR 751 Special Topics in Studio Art Special projects in photography, ceramics, color theory, three-dimensional form theory, and related topics.

ARTCR 790 Thesis Project 3 cr. Prereq: perm grad advisor. Limited to matriculated students in MA and Teacher Education Programs.

ARTCR 791 MFA Project 6 cr. Limited to matriculated students in MFA program who have completed 42 grad cr. Independent research toward the MFA project under direction of faculty member.

Lecture Courses

ART H 602 Research Methods of Art History Offered every sem. Training in bibliographical materials and research methods through examination of special problems in art history and writing of research paper.

ART H 619 Greek Art Offered Fa. Greek sculpture and painting from Geometric to Hellenistic period. Emphasis on masterpieces of Archaic, Classical, and Hellenistic eras.

ART H 620 Roman Art Offered Sp. Roman Art from Republican period to Age of Constantine. Emphasis on Imperial reliefs, portraits, sarcophagi, and wall painting.

ART H 621 Modern Art I Offered Fa. Origins and history of modern art in 19th century.

ART H 622 Modern Art II Offered Sp. Modern art in 20th century.

ART H 623 Renaissance Art I Offered Fa. Studies in art of 14th and 15th centuries.

ART H 624 Renaissance Art II Offered Sp. Studies in art of 16th century.

ART H 625 Baroque Art Offered Fa. Studies in art of 17th century.

ART H 636 Chinese and Japanese Art Offered Sp. Studies in Chinese and Japanese painting.

ART H 637 Medieval Art I Offered Fa. Studies in art of early Middle Ages.

ART H 638 Medieval Art II Offered Sp. Studies in art of later Middle Ages.

ART H 641 Islamic Art Offered Fa. Art and architecture of Islamic world from Spain to India.

Seminars

ART H 722 Seminar in Contemporary Art Research topics related to recent trends in modern art.

ART H 724 Seminar in Renaissance Art Research topics from art of Renaissance.

ART H 725 Seminar in Religious Iconography in Italian Renaissance Not offered every sem. Renaissance themes and their origins in medieval and ancient literature.

ART H 729 Seminar in American Art I Studies in art and architecture of Colonial and Federal periods.

ART H 730 Seminar in American Art II Studies in art and architecture of 19th and 20th centuries.

ART H 731 Early Netherlandish Painting Studies in Flemish and Dutch painting of the 15th century.

ART H 734 Theory and Criticism of Art Offered every sem. Discussion of assigned readings from history of art criticism as background for consideration of problems in critical approach to contemporary art.

ART H 760 Architecture and the City Not offered every sem. Problems in history of the city and its architecture with emphasis on space and form relationships. Open to students in Master in Urban Planning program; may be credited toward either concentration.

ART H 780 Special Topics in Art Topics in recent years have included Art and Music, Pre-Columbian Structures of the Western Hemisphere, Art and Psychology, Art and Anthropology, Architecture of Italian Renaissance, Seminar on Giotto, Greek Vase Painting, Post-Impressionism, Early Modern Sculpture, Color Theory in Relation to Painting.

Independent Research Courses

ART H 755 Independent Study 1-3 cr. Independent studies in history or theory of art under direction of faculty member.

ART H 799 Thesis Research 3 cr. Limited to matriculated MA students in art who have completed 20 grad cr. Independent research toward MA thesis under direction of faculty member.

Biochemistry

Graduate Advisors Thomas Schmidt-Glenewinkel, Department of Biological Sciences, North Building room 805A phone 772-5027; Maria Turnasz, Department of Chemistry, North Building room 1407 phone 772-5387

The interdisciplinary program in biochemistry is staffed by members of the Department of Biological Sciences and the Department of Chemistry.

MASTER OF ARTS

The MA is offered either as a terminal degree or as the first year toward the PhD within CUNY. Both first-year courses and advanced courses are available at Hunter College and/or at the Graduate School and University Center.

Departmental Requirements for Admission

General admission requirements to Hunter's graduate programs are observed.

In addition, the student must have completed the following courses: general chemistry (including qualitative analysis), quantitative analysis, organic chemistry (one year), physical chemistry (one year), biology (one year), biochemistry lecture and laboratory (one semester). Deficiencies may be made up during the first 3 semesters of graduate study.

Departmental Requirements for the Degree

In addition to the general degree requirements in effect in the graduate programs in the arts and sciences, the student must complete the following courses:

1. BIOCHEM U710.1, U710.2 (Advanced Biochemistry).
2. BIOCHEM U711 (Basic Laboratory Techniques).
3. BIOCHEM 715.51, 715.52, 715.53, 715.54. These seminars must be taken during the first 4 semesters of the student's graduate training. A maximum of 4 cr may be offered toward the MA.
4. BIOCHEM U750 (Bioorganic Chemistry) and BIOCHEM U880 (Physical Biochemistry).
5. Biology. The student is required to take graduate courses in biology totaling 8 to 10 cr. This requirement may be satisfied by one course in the field of cell biology, molecular biology, genetics, or developmental biology and a second course chosen by the student in consultation with the advisor.

Students may complete the requirements for the MA through either of the following plans:

1. A minimum of 30 cr of course work plus a passing grade in a comprehensive examination, or
2. A minimum of 24 cr of course work plus a thesis on an original research problem and a minimum of 6 cr in research. The thesis must be approved by the student's advisor, and it must be defended before a thesis committee.

Note: A student who completes the requirements for the MA and wishes to continue for the doctorate must reapply for matriculation and be subject to the conditions thereof.

COURSE LISTINGS

Each course 45 hrs, 3 cr, unless otherwise noted.

BIOCHEM U710.1, .2 Advanced Biochemistry Prereq: a 1-sem course in biochemistry or equiv and physical chemistry. Offered Fa and Sp, respectively, at Graduate Center.

BIOCHEM U711 Basic Laboratory Techniques for Research in Biochemistry 105 hrs lab and conf, 4 cr. Offered Fa and Sp.

BIOCHEM 715.51, .52, .53, .54 Seminars in Biochemistry Each 15 hrs, 1 cr.

BIOCHEM 799.01 Thesis Research (Master's) 1 cr. **799.02 Thesis Research (Master's)** 2 cr. **799.03 Thesis Research (Master's)** 3 cr. Offered Fa, Sp, Su. Open only to students writing a thesis as part of their requirements.

BIO 710.LC Molecular Biology Lectures 75 hrs, 5 cr. Prereq: 1 yr of organic chemistry. Offered Fa. Topics covered include structures and function of nucleic acids and proteins as well as bioenergetics.

BIOCHEM U750 Bioorganic Chemistry Prereq: 1 semester course in biochemistry. Offered Fa.

BIOCHEM U880 Physical Biochemistry Prereqs: calculus, physical chemistry, 1 semester biochemistry. Offered Sp.

CHEM 640 Biochemistry I Prereq: 1 yr of organic chemistry. Offered Fa. Proteins, enzymes, bioenergetics.

CHEM 641 Biochemistry II Prereq: CHEM 640 or BIO 710.LC or 300. Offered Sp. Metabolism, biochemical genetics, immunobiochemistry, hormones, muscle biochemistry.

Biological Sciences

Chair Shirley Raps, North Building room 942 phone 772-5293
Graduate Advisor Thomas Schmidt-Glenewinkel, North Building room 805A phone 772-5027

Minority Biomedical Research Support Advisor Rivka Rudner
North Building room 314 phone 772-5243

Research Centers in Minority Institutions (RCMI) Program

Coordinator Robert Dottin, North Building room 937 phone 772-5532

FACULTY

Jesus Angulo, Associate Professor; PhD, CUNY; Regulation and Function of Neuropeptides in the Mammalian Brain

Edward R. Balboni, Associate Professor; PhD, Massachusetts; Bioenergetics

Richard L. Chappell, Professor; PhD, Johns Hopkins; Cellular Neural Interactions of the Retina

William D. Cohen, Professor; PhD, Columbia; Cytoskeletal Structure and Function—Cellular Morphogenesis

Robert P. Dottin, Professor; PhD, Toronto; Regulation of Gene Expression by Signal Transduction

Laurel A. Eckhardt, Professor; PhD, Stanford; Molecular Immunology

Marie T. Filbin, Associate Professor; PhD, Bath; Molecular Neurobiology

David A. Foster, Associate Professor; PhD, Columbia; Oncogenes and Signal Transduction

S. Marvin Friedman, Associate Professor; PhD, Purdue; Translational Machinery of Archaeobacteria

Ann S. Henderson, Professor; PhD, North Carolina; Molecular Structure of Mammalian Chromosomes

Joseph S. Krakow, Professor; PhD, Yale; Structure-Function Relationship of RNA Polymerase and cAMP Receptor Protein from *Escherichia coli*

Peter N. Lipke, Professor; PhD, California, Berkeley; Molecular Mechanism of Cell-Cell Adhesion in Eukaryotes

Katherine Lyser, Professor; PhD, Radcliffe; Cytological Organization and Differentiation of Neurons

Roger A. Persell, Associate Professor; PhD, CUNY, Hunter; Interdisciplinary Approaches to Biological Concepts in Literature; Liver Physiology
Shirley Raps, Professor; PhD, Illinois; Molecular Organization of Phycobilisomes
Rivka Rudner, Professor; PhD, Columbia; Redundancy and Function of Ribosomal RNA Genes in *Bacillus*
Thomas Schmidt-Glenewinkel, Associate Professor; Dr phil nat, Frankfurt; Molecular Biology of Nervous System Development
Ezra Shahn, Professor; PhD, Pennsylvania; Science Education

The Department of Biological Sciences has graduate and postgraduate research programs in molecular and cell biology, cancer biology, molecular and developmental genetics, and molecular neuroscience. Students may obtain the MA from Hunter College and/or the PhD from the City University Graduate School. The doctoral program is designed to prepare students to cope with the radical changes in direction and experimental approaches that will characterize future developments in biology, as well as to train highly qualified research scientists who are fully equipped to teach and to direct research in a wide variety of university programs in biology.

The faculty of the Department of Biological Sciences are pursuing projects in the forefront of modern research. In addition to the individual research laboratories, shared facilities have been established. A fermentor is available for the large scale growth of microorganisms. New, fully modern animal facilities have recently been completed. A departmental machine and electronic shop allows development of special instrumentation and equipment. The newly-founded Institute for Biomolecular Structure and Function, located in the biology and chemistry departments, includes a sequencing and synthesis facility equipped with a DNA synthesizer, a peptide synthesizer, a gas-phase sequencer and advanced HPLC and data processing equipment. A microvax computer contains the databases and software for sequence analysis of proteins and nucleic acids. The microvax computer will also be part of the computer network under development at Hunter that will link the biology department to national and international computer networks. The laboratory for electron microscopy and cytology houses transmission and scanning electron microscopes. A cell culture and hybridoma facility, now under construction, will allow the large-scale growth of eukaryotic cells and the generation of monoclonal antibodies.

MASTER OF ARTS

The degree is offered either as a terminal degree or as the first year toward the PhD within CUNY. Both introductory and advanced courses are available at Hunter College.

Departmental Requirements for Admission

In addition to the general requirements for admission to graduate programs, the following departmental requirements must be met:

1. One year of organic chemistry, including laboratory.
2. One year of college physics.
3. One year of calculus.
4. An undergraduate major in biology, botany, physiology, zoology, chemistry, or physics. A minimum of 18 credits in the area of specialization should be presented. Chemistry or physics majors must offer at least one year of appropriate life science for admission to any of the majors in the MA program in biological sciences.
5. General Test of the Graduate Record Examination (GRE).
6. TOEFL Test for foreign, non-English speaking students.

Departmental Requirements for the Degree

Courses The program of course work is planned with the graduate advisor so that it is concentrated in one of the following major areas: molecular and cell biology, cancer biology, molecular and developmental genetics, and molecular neuroscience.

Required Courses

BIOL 700.05 Genetics
 BIOL 710.13 Molecular Biology Lecture
 BIOL 714.01 Cell Biology
 BIOL 750.03 Developmental Biology

Up to 4 credits of tutorial are accepted toward the degree. Only one 600-level course (e.g., in another science such as biochemistry) may be credited toward the degree.

Comprehensive Examination and Thesis Students may fulfill requirements for the MA through either of the following plans:

Plan A

A minimum of 30 credits of course work plus a passing grade in a comprehensive written examination in 4 of the required areas. The comprehensive examination is given annually in August.

Plan B

1. A minimum of 24 credits of course work plus a passing grade in a comprehensive examination, and
2. Thesis on an original research problem and a minimum of 6 credits in research. The thesis must be approved by the student's advisor, and it must be defended before a thesis committee.

BA/MA IN BIO-PHARMACOLOGY

A special biological sciences combined BA/MA program in biopharmacology is open to a limited number of departmental majors. The program offers promising students the opportunity to complete both the BA and MA requirements in 5 years, taking the final 2 years of lab and course work in the Department of Pharmacology at the Mount Sinai School of Medicine. Students have the chance to develop a deeper knowledge of pharmacology, physiology, and neuroscience useful for work in the pharmaceutical industry, as well as to prepare for doctoral research in pharmacology, neuroscience, or other related biomedical sciences. The program has a large number of required courses, many of which have other courses as prerequisites. It is recommended that students in the program begin taking such courses in their first or second semester. Interested students should contact the Department of Biological Sciences as early as possible regarding eligibility and curriculum requirements. Students are expected to maintain a 3.0 GPA to be considered for admission to the senior year program at Mount Sinai. The Department of Pharmacology at Mount Sinai, in consultation with the Department of Biological Sciences at Hunter College, will make final determination regarding admission to the first year of the program at Mount Sinai, as well as to the final year of master's course work at Mount Sinai. The BA will be awarded *en passant* upon completion of degree requirements for a major in biological sciences. The student is not required to complete the MA. The comprehensive examination requirement for the master of arts may be met with a passing grade on a comprehensive examination in bio-pharmacology prepared under the supervision of the Department of Pharmacology at the Mount Sinai School of Medicine and the Department of Biological Sciences at Hunter College.

OTHER JOINT PROGRAMS LEADING TO MA & MS DEGREES

There is a joint program leading to the MA degree in biology and secondary education. This program requires completion of a project and a comprehensive exam. There is also a combined program leading to a BA in biology and an MS in environmental health sciences. Contact a graduate advisor for details on both programs.

DOCTOR OF PHILOSOPHY

The City University offers courses and research training leading to the PhD in biology in the following areas: molecular, cellular, and developmental biology, physiology and neurosciences, ecology, evolutionary biology and behavior, plant sciences. Requirements for admission and further information may be found in the *Bulletin of the Graduate School*.

COURSE LISTINGS

Each course 45 hrs, 3 cr, unless otherwise noted.

Prior to registration, students must obtain the approval of the instructor and/or graduate advisor to attend courses. The specific prerequisites listed below are aids for evaluation of the background required.

Molecular and Cell Biology

BIOL 710.13 Molecular Biology Lecture 75 hrs, 5 cr. Prereq: 1 yr of organic chemistry. Offered Fa. Structure and function of biomolecules; enzyme mechanisms; replication, transcription, translation; regulation of macromolecular biosynthesis; energy transformations.

BIOL 710.14 Molecular Biology Laboratory 105 hrs lab and conf, 4 cr. Coreq: BIOL 710.13 or comparable course in biochemistry. Offered Fa. Isolation of RNA and DNA, construction and screening of cDNA libraries, Southern and Northern blot analysis, cloning, DNA sequencing.

BIOL 714.01 Cell Biology 60 hrs, 4 cr. Prereq: undergraduate organic chemistry or biochemistry. Offered Sp. In-depth examination of cellular and subcellular organization and activity. Topics include membrane structure, biogenesis, transport; cell surface interactions, cells in culture, the cell cycle; organelle structure, function and assembly; modern experimental tools and techniques.

BIOL 770.06 Fine Structure of Cells: Laboratory 30 hrs lec demon, 90 hrs lab, 4 cr. Prereq: perm instr. Offered Fa. Course emphasizes cellular architecture and biochemistry, methodology of tissue preparation for morphological analysis and evaluation of ultrastructural components visualized in electron micrographs. Independent laboratory exercises are emphasized. Enrollment limited to 4 or 5 students since individual instruction is required.

BIOL 771.01 Analysis of Mammalian Cells in Tissue Culture 30 hrs lec, 60 hrs lab, 4 cr. Prereq: perm instr. Offered Sp. Laboratory and associated lectures on mammalian cells in culture. Cell growth and division, cloning, isolation of mutants, cell hybrids, and autoradiographic analysis.

Genetics and Developmental Biology

BIOL 700.05 Genetics 60 hrs lec, 4 cr. Prereq: undergraduate genetics and molecular biology (or biochemistry). Offered Fa. Prokaryotic and eukaryotic genetics; organization of DNA, replication repair, mutagenesis, recombination, control of gene expression, genetic engineering and molecular techniques.

BIOL 750.03 Developmental Biology Prereq or coreq: BIOL 710.13 and 714.01. Offered Sp. Analysis of morphological and molecular aspects of development and differentiation. Topics include gametogenesis, fertilization, early development, differentiative processes, organogenesis, neoplasia and aging with emphasis on genetic regulation in development.

Physiology and Neuroscience

BIOL 722.02 Endocrinology Prereq: BIOL 710.13 and 714.01. Offered Fa. Vertebrate hormone biochemistry and metabolism; mechanism of action at the molecular level, and relationship to whole animal physiology.

BIOL 730.01 Plant Physiology Prereq: BIOL 710.13 and 714.01 or equiv. Physiological processes in plants: permeability, absorption, solute translocation, nutrition, respiration, photosynthesis, and metabolism.

Neuroscience I* Offered Fa. Given at CUNY Graduate Center. Comprehensive introduction to neuroscience with regard to structure and function at the cellular level.

BIOL 790.70 Neuroscience II Offered Sp. Given at CUNY Graduate Center. Introduction to sensory and motor systems and to neural behavioral development.

Seminars

BIOL 790.51-BIOL 790.99 Prereq: BIOL 700.05 and BIOL 710.13. Offered Fa and Sp. Seminars may be offered in any of the following areas: cell biology, genetics, biochemistry, molecular genetics, physiology, developmental biology, neuroscience, and other special topics.

Tutorials

BIOL 792.02 and BIOL 792.04 30 or 60 hrs, 2 or 4 cr. Prereq: perm grad advisor.

Thesis Research — MA

BIOL 799.1, .2, .3 Each 15, 30, or 45 hrs, 1, 2, or 3 cr. Prereq: perm grad advisor.

Independent Doctoral Research

BIOL U899.1-U899.10 Each 15 to 150 hrs, 1 to 10 cr. Prereq: perm grad advisor.

Chemistry

Chair William Sweeney, North Building room 1307 phone 772-5330
Graduate Advisor Klaus Grohmann, North Building room 1402
 phone 772-5333

FACULTY

Edward J. Barrett, Professor; PhD, Columbia; Organic Chemistry
Joseph J. Dannenberg, Professor; PhD, California Institute of Technology; Organic and Physical Chemistry
Jack C. Day, Associate Professor; PhD, California, Los Angeles; Organic Chemistry
Max Diem, Professor; PhD, Toledo; Physical Chemistry
Lynn Francesoni, Assistant Professor; PhD, Illinois; Inorganic Chemistry
Richard W. Franck, Professor; PhD, Stanford; Organic Chemistry
Dixie J. Goss, Professor; PhD, Nebraska; Biophysical Chemistry
Klaus Grohmann, Associate Professor; PhD, Heidelberg; Organic Chemistry
William E. L. Grossman, Professor; PhD, Cornell; Analytical Chemistry
Charles E. Hecht, Professor; PhD, Chicago; Physical Chemistry
David K. Lavalley, Professor; PhD, Chicago; Inorganic and Bioinorganic Chemistry
Louis Massa, Professor; PhD, Georgetown; Physical Chemistry
Pamela Mills, Assistant Professor; PhD, Wisconsin; Theoretical Chemistry
D. R. Mootoo, Assistant Professor; PhD, Maryland and Duke; Organic Chemistry
Gary J. Quigley, Professor; PhD; SUNY College of Environmental Science & Forestry at Syracuse; Biochemistry
Angelo Santoro, Professor; PhD, Kansas; Organic Chemistry
William Sweeney, Professor and Chair; PhD, Iowa; Physical Biochemistry
Maria Tomasz, Professor; PhD, Columbia; Biochemistry

*Students must register for Neuroscience I at City College.

MASTER OF ARTS

An MA in chemistry is no longer offered, but the department participates with the Department of Biological Sciences in an interdisciplinary program leading to an MA in biochemistry (see biochemistry listing).

DOCTOR OF PHILOSOPHY

Students are encouraged to apply directly to the PhD program, which is offered through the CUNY Graduate School and University Center. PhD dissertation research is carried out in the Hunter College Department of Chemistry. Contact the graduate advisor for further information. A PhD in Biochemistry is also offered through the CUNY Graduate School and University Center. For further information contact Professor Dixie Goss, North Building, room 1413C; phone 772-5383.

Classics

Chair Tamara M. Green, West Building room 1425 phone 772-4960
Graduate Advisor Ronnie Ancona, West Building room 1401 phone 772-4960

FACULTY

Ronnie Ancona, Assistant Professor; PhD, Ohio State; Latin Poetry, Latin Pedagogy, Horace, Feminist Criticism
Tamara M. Green, Professor and Chair; PhD, NYU; Ancient History, Late Antiquity, Greek and Roman Religion
Adele J. Haft, Associate Professor; PhD, Princeton; Classical Epic and Tragedy, Classical Mythology, Greek and Roman Civilization
Robert B. Koehl, Associate Professor; PhD, Pennsylvania; Classical Archaeology
William J. Mayer, Lecturer; MA, Columbia; Latin Pedagogy, Cicero, Vergil
Sarah B. Pomeroy, Professor; PhD, Columbia; Women and the Family in Classical Antiquity, Social History, Papyrology
Susan I. Rotroff, Professor; PhD, Princeton; Classical Archaeology
Robert J. White, Professor; PhD, Yale; Greek Literature, Classical Mythology, Greek Tragedy, Classics in Translation, Caesar

MASTER OF ARTS IN THE TEACHING OF LATIN

The MA program in the teaching of Latin is meant for students who have majored in Latin on the undergraduate level and who want to pursue a teaching career in the secondary schools, for teachers already in the field who wish to gain certification in Latin, and for Latin teachers who want further training and study. A new program is being planned to serve applicants who lack provisional certification; please consult with department.

This program differs from the traditional MA program in Latin in 2 ways. First, each of the language courses provides the student with both increased linguistic competency and a pedagogical methodology for teaching Latin more effectively. In addition, the program requires courses in ancient culture and literature in translation; these can be useful later in designing humanities courses suited to the junior and senior high school curricula.

Classes meet in the late afternoon and evening, making the program accessible to people who work during the day.

Departmental Requirements for Admission

Applicants must present a bachelor's degree from an accredited institution acceptable to Hunter College. An undergraduate major

in Latin or classics or the equivalent (24 credits in Latin) is required for admission. Students with 18 credits in undergraduate Latin courses may be admitted provisionally if they are certified to teach languages other than Latin. Education credits necessary for New York State secondary certification acceptable to the Division of Programs in Education must be completed prior to admission. Undergraduate students who are considering application to the MA program are advised to complete an undergraduate minor in English or a second language, since teachers of Latin may be required to teach another subject.

An undergraduate average of 3.0 (B) in the major and an overall cumulative average of B- are required for admission. The selection process includes a personal interview in order to determine the applicant's suitability for the program.

Departmental Requirements for the Degree

The course of study for the MA in the teaching of Latin has 3 components, totaling 33 credits.

- 18 cr in Latin, including Latin composition. Up to 2 courses in Latin may be taken in the graduate program in classics at the CUNY Graduate School.
- 12 cr in classical culture, including CLA 705 (The Greek and Latin Roots of English).
- EDUC 720 (Methods of Teaching Latin).

At the completion of all coursework, candidates for the degree are required to take 3 comprehensive examinations in Latin translation, Latin grammar, and classical culture.

Program of Study

- | | | |
|---|--|---------|
| 1. 18 cr in Latin | | Credits |
| A. 9 cr from the following: | | |
| LAT 701 Literature of the Early Republic | | 3 |
| LAT 702 Literature of the Late Republic | | 3 |
| LAT 703 Literature of the Early Empire | | 3 |
| LAT 704 Literature of the Late Empire | | 3 |
| B. 6 cr from the following: | | |
| LAT 705 Caesar | | 3 |
| LAT 706 Cicero | | 3 |
| LAT 707 Vergil | | 3 |
| LAT 708 Supervised Reading | | 3 |
| C. LAT 709 Latin Composition | | 3 |
| 2. 12 cr in Classical Culture | | |
| A. 9 cr from the following: | | Credits |
| CLA 701 The Legacy of Ancient Greece | | 3 |
| CLA 702 The Legacy of Ancient Rome | | 3 |
| CLA 703 Classical Literature in Translation I | | 3 |
| CLA 704 Classical Literature in Translation II | | 3 |
| CLA 706 Supervised Reading | | 3 |
| B. CLA 705 The Greek and Latin Roots of English | | 3 |
| 3. EDUC 720 Methods of Teaching Latin | | 3 |

No more than 6 credits in Latin beyond the BA taken before admission to the program may be used to fulfill the degree requirements.

Non-Matriculants After applicants have been accepted by Hunter College as non-matriculant students, their records must

be evaluated, preferably prior to registration, by the graduate advisor before they can be admitted to classics department courses. Acceptance by Hunter College does not guarantee acceptance by the Department of Classics.

DOCTOR OF PHILOSOPHY

Some members of the Hunter College Department of Classics participate in a joint PhD program based at the City University Graduate School. Information concerning degree requirements, courses, etc., may be obtained from Professor Jacob Stern, Executive Officer, PhD Program in Classics, 33 West 42nd Street, New York, NY 10036. Phone 642-2304.

COURSE LISTINGS

Each course 45 hrs, including conferences, 3 cr, unless otherwise noted.

LAT 701 Literature of the Early Republic Early history of the Latin language and the development of Latin literary forms and styles.

LAT 702 Literature of the Late Republic Selections from authors of the late republic.

LAT 703 Literature of the Early Empire Selections from authors of the early empire.

LAT 704 Literature of the Late Empire Selections from authors of the late empire.

LAT 705 Caesar Selections from the *Commentaries on the Civil War* and *Commentaries on the Gallic War*.

LAT 706 Cicero Selections from the orations, philosophical treatises, and letters of Cicero.

LAT 707 Vergil Selections from the *Aeneid*, *Eclogues*, and *Georgics*.

LAT 708 Supervised Reading Independent reading in individual Roman authors or particular literary genres supervised by a faculty member. Prior approval of advisor required. May be taken twice for credit.

LAT 709 Latin Composition History of the Latin language, including an analysis of Latin syntax and grammar. Translation of short passages from English into Latin.

CLA 701 The Legacy of Ancient Greece A survey of Greek culture and civilization from the second millennium BC to the rise of Alexander.

CLA 702 The Legacy of Ancient Rome A survey of the culture and civilization of Rome from the founding of the city to the reign of Marcus Aurelius.

CLA 703/704 A Survey of Classical Literature in Translation An analysis, through genre, of the major traditions of classical literature. Students may take either semester for credit.

CLA 705 The Greek and Latin Roots of English The influence of Greek and Latin on the development of the English language and its vocabulary. Methods for using etymology as a language teaching tool.

CLA 706 Supervised Reading Independent reading on a particular aspect of ancient Greek or Roman culture supervised by a faculty member. Prior approval of advisor required.

EDUC 720 Methods of Teaching Latin An in-depth view and study of topics essential for the contemporary Latin classroom.

Communications

Chair Serafina Bathrick, North Building room 334 phone 772-4949

Advisor Robert Henry Stanley, North Building room 339
phone 772-4949 or 5042

Faculty

Serafina Bathrick, Associate Professor and Chair; PhD, Wisconsin; Women and Media, Television Culture, Photographic Images, Film Analysis
Joseph DeVito, Professor; PhD, Illinois; Interpersonal Communication, Nonverbal Communication, Language, Communication Theory

Stuart Ewen, Professor; PhD, SUNY; Social History of Consumer Culture, Mass Media in History, Advertising, Style

Arnold Gibbons, Professor; PhD, Syracuse; Media in Developing Countries, Comparative Media, International Communication

Thomas Mader, Associate Professor; PhD, Northwestern; Communication as Symbolic Action, Identification and Persuasion

Helen Newman, Associate Professor; PhD, CUNY; Communication Within Intimate Relationships, Information Processing and Social Cognition
Isabel Pinedo, Assistant Professor; PhD, CUNY; Cultural Studies; Television and Film

Ruth Ramsay, Assistant Professor; PhD, CUNY; Intercultural Communication

James Roman, Associate Professor; EdD, Fairleigh Dickinson; Cable Television, Television Production

Laurence Shore, Lecturer; PhD, Stanford; International Communication, Popular Music and the Music Industry, Media and Politics

Robert Henry Stanley, Professor; PhD, Ohio; Movies in American Culture, Mass Media and the First Amendment

MASTER OF ARTS

The MA program in communications is concerned with the theoretical and analytical investigation of communication, mass media, and cultural change. It is designed for graduates in communications, or more generally for students with backgrounds in humanities, social sciences, or education who wish to pursue the study of communications at an advanced level. The program can either be complete in itself or serve as the basis for entering a PhD program in communications at another institution.

Students may follow a variety of pathways in the advanced study of communication and culture. Those who want a broad program of study may choose across the curriculum. Those wishing to focus on media analysis should concentrate on CMC 703, 704, 705, 707, 708, 710. Those wishing to focus on human communications studies should concentrate on CMC 701, 702 and other forthcoming courses. Students concerned with professional media practice should concentrate on CMC 706, 709, and other forthcoming courses. No student, however, may concentrate exclusively on any single pathway. The required courses, CMC 700 and 701, indicate our commitment to a theoretical and research orientation as a basis for all advanced study.

Departmental Requirements for Admission

General admission requirements to the graduate program in the arts and sciences are observed. Applicants whose native language is not English must take the Test of Written English (TWE) component of the TOEFL examination.

Application Process

Applications are accepted for admission for the fall and spring semesters. Application materials must include at least one *academic* letter of reference. GRE test scores are required.

Departmental Requirements for the Degree

Courses Each candidate must complete an approved program of study of at least 30 credits, which shall include CMC 700, 701, and 798 or 799. Courses taken in other departments may be credited toward the 30 credits with the approval of the graduate advisor, but they may in no case exceed 9 credits.

Comprehensive Examination The student is required to pass a comprehensive examination related to the sequence of courses taken. This may, with departmental permission, include courses taken outside the department.

Master's Thesis or Project The candidate for the degree must present a master's thesis on a subject approved by the department or a master's project approved by the department.

COURSE LISTINGS

Each course 45 hrs, including conferences, 3 cr, unless otherwise noted.

CMC 700 Theory and Research in Mass Communication and Culture A critical review of theoretical and research approaches to the analysis of communication, focusing principally upon mass communication and culture.

CMC 701 Theory and Research in Human Communication A critical review of theoretical and research approaches to interpersonal communication, and of the underlying assumptions in standard methodologies of communication research.

CMC 702 Communications: Cognitive, Interpretive, and Perceptual Processes Exploration of interpretive processes through which people create, organize, and make sense of communicative experiences.

CMC 703 Social and Historical Roots of Mass Culture Social and historical context of development of mass media from 15th century to present.

CMC 704 Communications and the City Urban imagery in mass media and its varying relation to problems of urban life.

CMC 705 Social Class, Racism, and the Media Analysis of interrelations between social classes, racism, and the media.

CMC 706 Problems of American Journalism Analysis of the social responsibility of the press in relation to the dominant institutions of American society.

CMC 707 Communication and International Development Analysis of the development of the modern global communication system.

CMC 708 International Communication in the Contemporary World Prereq: CMC 707. The contemporary problems and issues of international communication.

CMC 709 Alternative Media: Examples and Experiences Review of the history and role of small-scale alternative media.

CMC 710 Feminist Approaches to the Mass Media A historical perspective on feminist cultural theories as they have addressed the representation of women in American mass culture.

CMC 751 Special Themes Seminar Rubric for occasional or experimental courses. Subject to approval by department's Graduate Curriculum Committee.

CMC 790 Independent Study Hrs to be arranged, 1 cr. Rubric for student's independent study. Permission of Graduate Advisor required.

CMC 791 Independent Study Hrs to be arranged, 2 cr. Rubric for student's independent study. Permission of Graduate Advisor required.

CMC 792 Independent Study Hrs to be arranged, 3 cr. Rubric for student's independent study. Permission of Graduate Advisor required.

CMC 798 Master's Project This course or CMC 799 must be completed satisfactorily before graduation. Approval of Graduate Advisor required.

CMC 799 Master's Thesis Normally not longer than 12,000 words. This course or CMC 798 must be completed satisfactorily before graduation. Approval of Graduate Advisor required.

Computer Science

Chair T. C. Wesselkamper, North Building room 1008 phone 772-5213
Graduate Advisor Christina Zamfirescu, North Building room 1000H
 phone 650-3854

FACULTY

Daniel I. A. Cohen, Professor; PhD, Harvard; Combinatoric Algorithms, Theory of Computability

Susan L. Epstein, Associate Professor; PhD, Rutgers; Artificial Intelligence, Knowledge Representation, Machine Learning

Constantin V. Negoita, Professor; PhD, Bucharest; Fuzzy Logic, Artificial Intelligence

Howard A. Rubin, Professor; PhD, CUNY; Software Engineering

Cullen R. Schaffer, Assistant Professor; PhD, Rutgers; Machine Learning, Data Analysis, Artificial Intelligence

Virginia M. Teller, Associate Professor; PhD, NYU; Artificial Intelligence, Natural Language Processing

Stewart N. Weiss, Associate Professor; PhD, NYU; Software Testing, Computability Theory

Thomas C. Wesselkamper, Professor; PhD, London; Multiple-Valued Logic and Switching Theory, Stochastic Models

Christina M. Zamfirescu, Associate Professor; PhD, Aachen; Graph Theory and Algorithms, Operations Research

Master's-level graduates with both an understanding of the theoretical foundations of computing and expertise in its practical applications are much in demand in business, industry, government, and education. Hunter College, recognizing the need for an affordable, conveniently located program in this field, now offers a master of arts in computer science.

MASTER OF ARTS

An MA in computer science is offered either as a terminal degree or as the first year toward the PhD within CUNY. Students in the MA program may take introductory and advanced courses at both Hunter College and the Graduate School and University Center.

Departmental Requirements for Admission

To be considered for admission to the MA program in computer science, prospective students must meet the following criteria:

1. A BA or its equivalent, preferably in computer science, with a minimum GPA of 3.0 in the final 2 years of computer science and related course work.
2. Courses in calculus I and II, linear algebra, statistics, discrete structures, data structures, an assembly language, computer logic, operating systems, and computer theory.
3. A combined score of better than 1600 on the 3 sections of the Graduate Record Examination, with no score less than 500.
4. Students must also take the GRE subject examination in computer science.

Note: Foreign students whose first language is not English must score above 600 on the Test of English as a Foreign Language (TOEFL) to be admitted to the program.

Departmental Requirements for the Degree

Courses Upon admission, each student is assigned an advisory committee to provide counseling and to approve a plan of study. A minimum of 30 credits is required for the degree. After completing 9 credits of core courses (CSCI 701, 705, and 740), a student's curriculum is made up of either 5 elective courses (15 credits) and a 6-credit thesis or 7 elective courses and an exit examination. The program of study may include up to 6 credits from a department other than computer science, provided the student receives proper approval from his or her advisors.

Note: No student may take for graduate credit any course equivalent to a course for which he or she has received undergraduate credit.

Areas of Concentration Students may concentrate in one of 3 tracks within the Department of Computer Science: theoretical computer science, professional applications of computing, or specialized applications of computing. After completing the core courses, students are advised to take a significant number of courses in one of these 3 areas in addition to courses outside the department.

COURSE LISTINGS

Each course 45 hrs, 3 cr, unless otherwise noted.

CSCI 701 Theory of Operating Systems Prereq: an undergraduate course in operating systems. Resources, concurrent processes, processor scheduling, probability models of sequencing, memory management, performance analysis models.

CSCI 705 Sorting and Searching Algorithms Prereq: undergraduate courses in operating systems, data structures, computer logic, and calculus I. Complexity and applicability of file and database techniques including searching, sorting, supporting data structures, internal and external files, and sequential and direct access methods.

CSCI 710 Contemporary Data Base Technology Prereq: undergraduate course in data base management or equiv. Current techniques in technology; case studies of pioneering applications; next-generation breakthrough analysis; current research efforts.

CSCI 711 Data Base Security and Integrity Prereq: undergraduate course in data base management or equiv; CSCI 710 suggested. Privacy requirements, computer system security; policy formation, authorization, data integrity, audit control; other topics.

CSCI 722 Formal Methods in Programming Languages Prereq: undergraduate course in advanced programming languages or equiv. Data and control abstractions; backtracking and nondeterminism; the effects of formal methods for program description; proving correctness.

CSCI 724 Computational Complexity Prereq: undergraduate course in computer theory and CSCI 705. Turing machine model for computation: multiple tapes, multiple heads and nondeterminism, space-bounded and time-bounded TMs; completeness theorems.

CSCI 730 Microcomputer Systems Prereq: undergraduate course in computer architecture and CSCI 701. Terminology, function units, buses, DMA, interrupts, priorities, memory systems, I/O systems, addressing modes, time-sharing, networking.

CSCI 740 Models for Computer Systems Prereq: undergraduate courses in operating systems and systems analysis and simulation. Examination of major models of operating systems and computer systems; Petri nets, data flow diagrams, queuing theory.

CSCI 750 Combinatorial Computing Prereq: undergraduate course in numerical analysis or equiv. Computer representation of combinatorial objects; backtracking; generating and enumerating combinatorial objects; other topics.

CSCI 751 Cryptography Prereq: undergraduate course in numerical analysis and STAT 213; CSCI 750 suggested. Problems and possibilities of encryption and decoding; traditional and contemporary methods of encryption and time/memory trade-off.

CSCI 752 Graph Theory I Prereq: undergraduate course in numerical analysis. Permutations and combinations, generating functions, advanced counting numbers, cycles, parity, conjugacy classes, graphs, other topics.

CSCI 753 Graph Theory II Prereq: CSCI 752. Depth-first search, ordered trees, codes, optimization problem, sort-by-merge; applications of network flow techniques; other topics.

CSCI 760 Computational Linguistics Prereq: undergraduate course in artificial intelligence. Formal grammars, transformational models, augmented transition networks, design of parsers, parsing techniques, Determinism Hypothesis, other topics.

CSCI 761 Knowledge Representation Prereq: undergraduate course in artificial intelligence; CSCI 760 recommended. Levels and types of knowledge, uses of knowledge, declarative-procedural controversy, scope and specificity, choice of primitives, other topics.

CSCI 771 Contemporary Application Development Technology Prereq: undergraduate course in software engineering and CSCI 701. Current techniques in technology, pioneering applications; analysis of next-generation breakthroughs and current research efforts.

CSCI 772 Contemporary Office Technology Prereq: undergraduate course in software engineering and CSCI 701; CSCI 771 recommended. Current techniques commercially available in office technology; fundamental theoretical foundations of various case studies and expected benefits.

CSCI 773 Contemporary Telecommunications and Network Technology Prereq: undergraduate course in software engineering and CSCI 701; CSCI 772 suggested. Analysis of breakthroughs in the areas of telecommunications and networking; current research; case studies of pioneering applications.

CSCI 774 Real Time Systems I Prereq: CSCI 701. Communications protocols, handshaking, error detection; networking, process control systems, time-sharing, other topics.

CSCI 775 Real Time Systems II Prereq: CSCI 774. Types of communications, terminology, memory systems, peripheral and DMA interface adaptors, timing problems, other topics.

CSCI 776 Software Metrics Prereq: CSCI 740. Measurement problem, Halstead's software science and results, Albrecht's function point measure, other topics.

CSCI 795 Advanced Topics in Computer Science Prereq: perm grad advisor. Topics will vary, dealing primarily with state-of-the-art material in computer science. May be repeated for a maximum of 6 cr.

CSCI 799 Thesis Research in Computer Science (6 cr.) Prereq: perm grad advisor. Thesis research. The course is open only to students selecting the thesis option.

Economics

Chair Marjorie Honig, West Building room 1524 phone 772-5400
Graduate Advisor Laura Randall, West Building room 1504
 phone 772-5430

FACULTY

Temisan Agbeyegbe, Associate Professor; PhD, Essex; Econometrics, Trade and Development, Macroeconomics, Resources
Howard Chernick, Professor; PhD, Pennsylvania; Public Finance, Urban Economics
Randall K. Filer, Professor; PhD, Princeton; Labor Economics, Demography, Finance, Urban Economics
Devra L. Golbe, Professor; PhD, NYU; Industrial Organization, Finance, Microeconomics
Keith Heyen, Assistant Professor; PhD, Wisconsin; Econometrics and Applied Microeconomics
Marjorie Honig, Professor and Chair; PhD, Columbia; Labor Economics, Income Distribution & Transfer Policy
Laura R. Randall, Professor; PhD, Columbia; Latin American Economic Development, Economic History, Political Economy of Oil
Cordella Reimers, Professor; PhD, Columbia; Labor Economics, Income Distribution & Transfer Policy
Bernard Shull, Professor; PhD, Wisconsin; Money & Banking, Monetary Theory, Government Regulation
Ronald G. Smith, Professor; DBA, Louisiana State; Finance, Management

MASTER OF ARTS

Hunter's master's program in economics equips students with analytic tools that can be directly applied to business and public policy. The program integrates economic theory, quantitative methods, and practical application and emphasizes elective courses in economic development, domestic and international banking, international trade, labor, and public finance. Hunter MAs regularly move into interesting, well-paid positions in business, government, and international organizations. They are equally prepared to enter PhD programs at top-ranking universities.

Under the direction of professors who combine distinguished academic credentials with wide experience in economic research

and applications, students studying for an MA at Hunter may participate in such major on-going projects as: the changing nature of financial and securities markets; comparative budget policies; earnings of immigrants and minority groups; the political economy of oil; taxation and the regional economy; social security and public welfare; energy and environmental policy, and health.

The program is offered in the evening to accommodate students who hold full- and part-time jobs.

Departmental Requirements for Admission

In addition to the general requirements for graduate admission to Hunter, the following departmental requirements must be met: 18 credits of undergraduate courses in economics, and 2 letters of recommendation from college teachers, including one from a member of an economics department. The 18 credits in economics must include 6 in principles of economics, and 3 in each of the following courses or their equivalents: Techniques of Economic Analysis (ECO 220), Economic Statistics I (ECO 221), Economic Statistics II (ECO 321), and a semester of either intermediate macroeconomic theory or intermediate microeconomic theory (ECO 300 or 301). Both ECO 300 and ECO 301 are prerequisites for required courses in the MA program. Students who have not completed these courses at the time of admission will be required to complete the needed course(s) during their first semester at Hunter. (Completion of such courses cannot be counted towards the MA.)

Departmental Requirements for the Degree

Of the 30 credits required for the degree, 24 must be devoted to courses in economics. All candidates are required to complete ECO 701 (Economic Analysis), 703 (Income Determination), 722 (Econometrics) and 723 (Time Series). The degree can be earned in 2 ways:

1. Completion of 27 credits of course work and 3 credits of Thesis Research. Students must submit a satisfactory master's thesis written under the supervision of a member of the economics faculty.
2. Completion of 30 credits of course work. Students must prepare a supervised research paper in 2 of their courses, exclusive of ECO 701, 703, and 722, and earn at least a B plus on each paper.

DOCTOR OF PHILOSOPHY

The PhD program in economics is based at the City University Graduate School and University Center. Under special circumstances, advanced students in the MA program may take up to 12 credits and transfer them to Hunter towards their MA. In addition, students in the PhD program who wish to transfer to the Hunter MA program may transfer up to 12 credits towards the Hunter MA. PhD students at the City University Graduate School who wish to earn an *en passant* master's degree after completing 45 credits at the Graduate School—in cooperation with Hunter College—should consult the executive officer of the PhD program.

Program for Secondary School Teachers

ECO 600 Contemporary Economics: Analysis and Policy 45 hrs, including conf, 3 cr. Intensive review and application of core economic theory; policy analysis and case studies. Not credited toward MA in economics.

Not Offered 1993-96

ECO 652 Economic Aspects of Environmental Control: Social vs Private Returns

ECO 671 Principles of Accounting I

ECO 672 Principles of Accounting II

ECO 676 Economics of Federal Taxation

ECO 685 Business Law

Additional Offerings Students in the teacher education program who meet the prerequisites specified for courses listed below will be permitted to enroll in such courses with the approval of the graduate advisor.

COURSE LISTINGS

Each course 45 hrs, including conferences, 3 cr, unless otherwise noted.

ECO 701 Economic Analysis I Prereq: ECO 220 or equiv and ECO 300 or equiv. Offered Fa. Supply and demand analysis; economics of households and firms; determination of factor prices under varying market structures.

ECO 702 Economic Analysis II Prereq: ECO 701. Special price formation problems; stability criteria; polyperiodic allocation theory; capital theory; welfare economics; general equilibria.

ECO 703 Income Determination Prereq: ECO 220 or equiv and ECO 301 or equiv. Offered Sp. Determinants of national income, output, and employment, including business cycle theories and public and private policies to stabilize employment and prices.

ECO 704 Systems of Economic Measurement Prereq: ECO 300 or equiv. Systems of economic measurement, estimation, and computation of income flows and asset values for micro- and macroeconomic units.

ECO 705 Development of Economic Thought Prereq: ECO 301 or equiv. History of economic doctrines from mercantilists to recent economic theory.

ECO 710 Monetary Theory and Policy Prereq: ECO 210 and 301 or equiv. Factors determining demand for and supply of money; theories of rate of interest; issues of monetary policy.

ECO 711 Banking and Financial Structure Prereq: ECO 210 and 300 or equiv. Factors determining banking and financial structure in US. Issues involving financial crises and bank failure, allocation of financial resources, regulation and competition.

ECO 715 Public Finance Prereq: ECO 300 or equiv. Scope and optimum levels of fiscal activity. Principles of taxation; economic and equity aspects of various taxes; tasks, goals and instruments of compensatory finance; public debt policies.

ECO 722 Econometrics Prereq: ECO 220 or 3 credits matrix algebra (Math 111) and ECO 321. Offered Fa. Econometric methods for single equation models. OLS, GLS, and problems with heteroscedasticity; discrete dependent variables and distributed lags.

ECO 723 Time Series and Forecasting Prereq: ECO 722 (or 421) or equiv. Introduction to autoregressive and moving average models (ARIMA) as applied to economic data. Offered Sp.

ECO 725 Economics of Consumption Prereq: ECO 300 or equiv. Determinants of consumption and savings; microeconomic analysis of consumption; integration of consumption theory and microeconomic analysis.

ECO 730 Economic Development Prereq: Any one of ECO 301, 330, 331, 332, 340, 350, 351, or equiv. Theories of economic development; constraints on economic policies faced by developing nations; economic policy choices and results.

ECO 731 American Economic History Prereq: Any one of ECO 301, 330, 331, 332, 340, 350, 351, or equiv. Evolution of American economy since colonial period. Rise of manufacturing, urbanization, and role of government; trends in resource mobilization, allocation, productivity, and distribution.

ECO 735 Urban Economics Prereq: ECO 300 or equiv. Economic analysis of form and functioning of big cities. Analyses of location of economic activity within metropolitan areas and market for land; analyses of major urban policy issues, including housing, transportation, urban poverty, urban public finance.

ECO 740 International Economics: Theory and Policy Prereq: ECO 301 and 300 or equiv. International trade theory and analysis of current economic problems; terms of trade; balance of payments; trade regulations and policies, international financial institutions, foreign aid, regional integration.

ECO 745 Labor Economics Prereq: ECO 300 and 321 or equiv. Economic theory and research on differences in employment and compensation (e.g., effects of demographic characteristics, human capital, labor unions, income maintenance policies).

ECO 747 Income Distribution and Public Policy Prereq: ECO 300 or equiv. Economic foundations of social insurance and income maintenance programs, objectives and achievements in relation to individuals, firms, and economy.

ECO 750 Comparative Economic Systems Prereq: Any one of ECO 301, 330, 331, 332, 340, 350, 351, or equiv. Capitalism and other methods of organizing economic activity; emphasis on price system and central planning.

ECO 751 Economic Development of Latin America Prereq: Any one of ECO 301, 330, 331, 332, 340, 350, 351, or equiv. Economic theories, policies, and world conditions influencing economic policies and economic development of Latin American nations.

ECO 755 Business Enterprise and Public Policy Prereq: ECO 300 or equiv. Examination of policy influences on business decision-making and operation in "mixed" economy. Relationships between market structure, business conduct, and market performance.

ECO 760 Operations Analysis Prereq: ECO 220 and ECO 300 or equiv. Use of analytical tools and concepts of economics in making rational decisions in operations management with inclusion of risk and uncertainty.

ECO 785 Internship Internships with organizations engaged in economic research. Students write a research paper under direction of said organization and concomitant supervision of instructor. Open to MA students who have completed at least 15 cr of grad work; may be taken only once.

ECO 790 Independent Study Prereq: perm instr and grad advisor. Intensive study of special field of economics under supervision of member of grad faculty.

ECO 791 Independent Study 1 cr. Prereq: perm instr and graduate advisor. Intensive study of special field of economics under supervision of member of graduate faculty. May be taken only once.

ECO 795 Economics Seminar Special topic and research in economics. May be repeated for credit by perm chair or grad advisor.

ECO 798 Thesis Research Preparation of acceptable MA thesis under faculty supervision. Credit not granted until thesis is accepted.

May Not Be Offered 1993-96

ECO 700 Techniques of Economic Analysis

ECO 706 Contemporary Economic Thought

ECO 732 European Economic History

ECO 749 Collective Bargaining and Arbitration

Programs in Education

Dean Hugh J. Scott, West Building room 1000

Dir., Curriculum & Credentialing Shirley Cohen, West Building room 1000

Dir., Grants and Divisional Reports Anthony Picciano, West Building room W1000

Office of Educational Services Vernetta von Besser, Acting Director; Barbara Ottaviani, Ronald Williams, Associate Directors; West Building room 1000 phone 772-4623

Teacher Placement Sally-Anne Milgrim, West Building room 1001A phone 772-4624

Teacher Certification West Building room 1000 phone 772-4625

Departmental Chairs

Curriculum and Teaching Migdalia Romero, West Building room 1023 phone 772-4686

Educational Foundations and Counseling Programs Sherryl Browne Graves, West Building room 1016 phone 772-4710

Health and Physical Education Thomas Burke, West Building room 1121 phone 772-4640

Special Education Marsha Lupi, West Building room 913 phone 772-4701

FACULTY

Curriculum and Teaching

Miriam Balmuth, Professor; PhD, NYU; Educational Psychology, Developmental & Remedial Reading

Louise Boedeker, Associate Professor; PhD, Univ. of Minnesota; Secondary Education

Sema Brainin, Assistant Professor; EdD, Columbia; Cognitive Functioning and Curriculum

Donald R. H. Byrd, Professor; PhD, North Carolina at Chapel Hill; Linguistics & English to Speakers of Other Languages

Dolores M. Fernandez, Associate Professor; PhD, Hofstra U.; Language, Cognition and Bilingual Education

George Gonzalez, Assistant Professor; PhD, Yeshiva U.; Developmental Psychology; Reading and Language Arts; Bilingual/Special Education

Ira Kanis, Associate Professor; EdD, Teachers College, Columbia, Science Supervision

Maureen L. Herman, Associate Professor; EdD, Columbia; Mathematics Education

Elizabeth Phelan Lawlor, Associate Professor; EdD, Columbia; Science Curriculum, K-12

Carmen Mercado, Associate Professor; PhD, Fordham; Reading & Language Arts

Sally-Anne Milgrim, Professor; PhD, NYU; English & English Education

John Niman, Professor; PhD, Columbia; Math & Math Education

Angela Parrino, Assistant Professor; PhD, NYU, Applied Linguistics

Herbert Perr, Professor; MA, Hunter; Art & Art Education

Anthony Picciano, Associate Professor; PhD, Fordham U., Educational Administration; Computer Education

Migdalia Romero, Professor and Chair; PhD, NYU; Linguistics & Bilingual Education

Hugh J. Scott, Professor and Dean, Programs in Education; EdD, Michigan State; Administration

Alene Smith, Associate Professor; EdD, Columbia; Curriculum & Teaching

L. Christina Taharally, Associate Professor; EdD, Massachusetts; Early Childhood Education

André L. Thibodeau, Associate Professor; EdD, Boston University; Developmental & Remedial Reading

José A. Vázquez, Professor; MA, Columbia; Language in Education, Policy & Administration

Bruce E. Williams, Professor; PhD, Union Graduate School, Administration and Supervision

Educational Foundations and Counseling Programs

Caroline Manuele Adkins, Professor; PhD, Columbia; Career Development/Counseling

Joan Buxbaum, Professor; PhD, Columbia; Communication Skills, Theories & Supervision in Counseling

Harry J. Clawar, Associate Professor; PhD, Temple; Tests & Measurements

Judith Dederick, Professor; PhD, Columbia; Developmental Psychology

Louise Fox, Associate Professor; PhD, Columbia; Psychology & Application to Education

Sherryl Graves, Associate Professor and Chair; PhD, Harvard; Clinical Psychology & Public Practice

David Julian Hodges, Professor; PhD, NYU; Cultural Anthropology

Mario A. Kelly, Associate Professor; EdD, Rochester; Developmental/Educational Psychology

Kimberly Kinsler, Associate Professor; PhD, CUNY; Educational Psychology

Mary Kopala, Associate Professor; PhD, Penn State University; Counseling Psychology

Simi Linton, Assistant Professor; PhD, NYU; Developmental/Counseling Psychology

Maurice M. Martinez, Professor; PhD, Michigan; Social Systems

John O'Neill, Professor; PhD, Syracuse; Rehabilitation Research

Rena Subotnik, Associate Professor; PhD, U. of Washington; Gifted Education

Margot Tallmer, Professor; PhD, Yeshiva; Adult Development

Fred Wertzer, Assistant Professor; EdD, Columbia; Family Counseling

Sue Rosenberg Zalk, Professor; PhD, Yeshiva; Women's Studies

Health Education and Physical Education

- Thomas R. Burke**, Associate Professor and Chair; EdD, Columbia; Exercise Physiology & Adapted Physical Education
- Franklyn R. Greenberg**, Associate Professor; EdD, Temple; Curriculum and Program Development & Emergency Medical Care
- Nana Koch**, Assistant Professor; EdD, Columbia; Dance Therapy & Movement Observation
- Mary Lefkarites**, Associate Professor; PhD, NYU; Human Sexuality, Women's Health Studies
- Kathryn Rolland**, Assistant Professor; EdD, Fairleigh Dickinson; Social & Cultural Health Issues
- Robert Schleihaut**, Associate Professor; EdD, Columbia; Biomechanics
- Anthony Scolnick**, Associate Professor; DPE, Springfield College; Physical Education
- Arlene Seguíne**, Associate Professor; EdD, Teacher's College, Columbia; Interdisciplinary

Special Education

- Ellis I. Barowsky**, Professor; PhD, CUNY; Neuropsychology of Developmental Disabilities
- Shirley Cohen**, Professor; PhD, Columbia; Families of the Handicapped
- Rosemary Gaffney**, Associate Professor; PhD, CUNY; Language Acquisition of Young Deaf Children
- Katherine Garnett**, Associate Professor; EdD, Columbia; Assessment & Curriculum Development for the Learning Disabled
- Marsha Lupi**, Associate Professor and Chair; EdD, Columbia; Working with Families of Students with Disabilities
- Lester Mann**, Professor; PhD, North Carolina; Assessment & Cognitive Processes
- Thomas C. McIntyre**, Associate Professor; PhD, Connecticut; Emotional & Behavior Disorders
- Rosanne K. Silberman**, Professor; EdD, Columbia; Visual Impairment, Severe/Multiple Disabilities
- Marsha Smith-Lewis**, Assistant Professor; EdD, Syracuse; Communication Disorders & Augmentative Communication

Graduate programs in education are designed to develop or extend the competence of the classroom teacher, to provide training for specialized school and agency personnel, and to establish a base for research skills in education and related fields. The graduate education, counseling and dance therapy programs offer opportunities for greater mastery of academic disciplines, development of professional theory and practice, study of problems confronting the professional in the field, and the building of competence for research. Most programs lead to the New York State permanent certificate.

Criteria for continued matriculation include both the maintenance of academic standards and the demonstration of professional standards of behavior and deportment in classrooms and in fieldwork settings.

Graduate programs in teacher and professional preparation at Hunter College are committed to training professionals who can deal effectively with the wide range of diverse learning and other needs in existence in New York's public schools and agencies. This is evidenced in classroom activities, laboratory experiences, and field placements that reflect the ethnic and cultural richness and diversity of New York City.

Hunter College Elementary School and Hunter College High School, serving children from nursery school through the 12th grade, have an international reputation for exploration of programs for gifted children. Their facilities are also available for observation, demonstration and research. In addition, many public schools in New York City cooperate with Hunter College as "affiliated schools" for research, demonstration, teacher preparation, and in-service education.

Research in Teacher Education A variety of programs in research and training in teacher education have attracted substantial

support from federal, state, and private sources. Projects currently in process include training in bilingual education, improvement of teaching of science, education of the gifted, and preparation of rehabilitation counselors and teachers for children with disabilities. These projects afford graduate students an opportunity for advanced training or development of research skills.

Certification In general, the programs described in this section of the catalog have been approved by the New York State Department of Education to provide graduates with permanent certification. US citizenship is required for permanent certification. Students may obtain provisional certification if they have filed a Declaration of Intention to become a U.S. citizen. Students must make application for permanent certification through the Degree Audit section of the Office of the Registrar when they apply for graduation, just prior to completing the master's degree. Further information is available from the Certification Advisor in the Office of Educational Services, 1000 West.

Teacher Placement The Office of Teacher Placement provides professional teacher placement services for:

1. Matriculated graduate students currently enrolled in a master's degree program at Hunter who have completed at least 12 graduate education credits.
2. Graduates who have completed a Hunter College teacher education program leading to state certification.

This office assists students in fulfilling the NTE (National Teacher Exam) and the NYCE (New York State Certification Examination) requirements for New York State certification.

Minimum Admission Requirements Applicants will be considered for admission to matriculation if they are graduates of accredited colleges with baccalaureate degrees comparable to that of Hunter College, and if they meet the minimum criteria required by the specific program, each described below. Each applicant's academic record and other factors are considered. Admission to some programs is competitive; the number of qualified applicants may exceed the number of students who can be admitted.

Matriculation with Conditions A student who is otherwise qualified for a particular program but who has not completed the courses prerequisite to matriculation may be admitted to matriculation with conditions provided deficiencies do not exceed 9 cr.

Work to remove conditions must begin in the first semester and be completed in no more than 3 consecutive semesters. A course taken as a condition of matriculation will not be credited toward the master's degree.

Student Internships and Field Practica Many master's programs require field placements or internships. The master's degree cannot be granted without completion of the internship. Students must apply in the fall semester if they wish to student teach in the spring, and in the spring semester if they wish to student teach in the fall.

Degree Requirements

Master's program requirements vary according to students' qualifications and the requirements of the specific program. Students must achieve a GPA of at least 3.0 in both graduate courses and conditions. Students should *not* expect to complete the master's degree requirements in one year's full-time attendance immediately after taking the undergraduate degree, although this may be possible in some programs.

In most areas of study, a candidate will be required either to pass a comprehensive examination or to submit a thesis or a contribu-

tion in the field of specialization acceptable to the proper College authority. Candidates should consult the program coordinator or advisor about the comprehensive examination, the thesis requirements, or contribution in the field at least one year in advance of the expected date of graduation.

Master's Thesis In curricula where a thesis is required, the student must file 2 approved copies with the program coordinator. The thesis is to be typewritten on good quality paper 8½ x 11 inches, and bound within a hard cover. The title page should show the title of the thesis, the name of the author, the date, and the statement "submitted in partial fulfillment of the requirements for the master's education programs." A candidate permitted to offer a thesis or contribution in the field should present the finished copies to the department chair or advisor concerned in time for the chair or advisor to evaluate the work, secure the Dean's approval, and record the final grade well in advance of the last day of classes.

Comprehensive Examination A comprehensive examination may be required of MS in Education candidates in specified programs. In programs where students may select either a thesis or a comprehensive examination, the thesis may not be chosen after a failure on the examination.

Time Limit Candidates for a master's degree in the Division of Programs in Education must complete the program within a maximum of 5 years from the date of matriculation. Students may be granted a leave of absence by permission of their advisor and with the approval of the Office of Educational Services for serious illness, maternity, or military leave. In such cases the time limit is extended by the duration of the leave, not to exceed one year.

Students exceeding the time limit, with or without prior approval, may be required to take more than the number of credits normally required for the degree. Course credits more than 5 years old when the degree is to be awarded are not applicable to the degree unless a time extension is granted.

Graduation All applicants for graduation must file a formal application for graduation in the Office of the Registrar before the announced deadline.

Limitations on Number of Credits Taken Each Semester

Students in full-time attendance at Hunter College take a minimum of 12 credits of graduate work. Students who work full-time may take no more than 6 credits of graduate work in any semester except with the coordinator's permission, based on academic achievement. Most graduate courses in education are offered after 4:00 pm to meet the needs of students who are employed during the day.

Admission Status

Applicants who enter with another master's degree in any of the division's master's degree programs may be enrolled as degree candidates in a graduate education program only if the new area of specialization is different from that studied for the earlier master's degree.

Students who have been matriculated for one master's degree in the Division may, on approval, transfer to a different curriculum. Students who wish to change programs must do so in the Office of Admissions. Such students must see the program coordinator or the Associate director of the Office of Educational Services to determine which course credits from the first program may be transferred to the new curriculum.

Students admitted to candidacy in an advanced certificate program (supervision & administration) have the status of regular tuition-paying matriculants.

Transfer and Approval of Credit

Students must apply to the Office of Admissions for transfer of credit for courses taken at Hunter College as a non-matriculant if these courses exceed 9 credits. Students must also apply to the Office of Admissions to transfer graduate courses taken at other colleges. Applications should be documented with catalogue course descriptions and reviewed and approved by program coordinators.

The following limitations apply:

- No more than 12 cr will be allowed for courses completed at other colleges, for courses taken on permit, or for Hunter College courses taken prior to matriculation.
- Such courses for which transfer and approval of credit is sought must have been completed within 5 years preceding the time when the degree will be awarded.
- Application for transfer and approval of course credits taken prior to matriculation may be made after registering for the first semester of matriculation. Transfer of credit taken "on permit" at other universities during the period of matriculation must be requested within one year of completion of such credits.
- Transfer of credit can only be granted for courses at Hunter or other colleges if the course grade is B or better.

Non-Matriculated Status

Qualified students who apply for matriculation but do not initially meet matriculation requirements may be permitted in some programs to take up to 9 cr on a non-matriculated basis. Admission to non-matriculant status does *not* imply approval to take any specific course. This approval rests solely with the department and is contingent upon course enrollments and the advisor's judgment of the student's preparation.

Students who have been admitted as non-matriculants should re-apply for admission during the semester in which they take the ninth non-matriculant credit. In the second admission review, the grades of the courses taken at Hunter as a non-matriculant will be reviewed as evidence of academic capability for admission. Any course taken as a non-matriculant in which a student receives a grade of "C" will not count toward the degree, unless a special waiver is granted by the dean.

Students who want to teach Art (K-12) and who do not have the provisional certification required for the graduate program should apply for admission as *undergraduate* non-degree students and take undergraduate courses. Students for all graduate program courses described in this section should apply for education graduate matriculant status.

No more than 9 credits earned as a non-matriculant at Hunter may be approved for transfer to the record of the student later accepted as a matriculant.

Graduate Programs

The Division of Programs in Education comprises the departments of curriculum and teaching, educational foundations, and counseling programs, health and physical education, and special education.

The division provides a wide variety of programs in teaching, counseling, school administration and dance therapy.

The boxed guide to Programs in Education shows the degrees and programs offered by the division.

A GUIDE TO PROGRAMS IN EDUCATION

Department of Curriculum and Teaching and Department of Educational Foundations and Counseling Programs

MS in Elementary Education

Program 1 35-49 credits

For students who do not have provisional state certification, Nursery-6.

Program 2 33 credits

For students who have provisional state certification, Nursery-6.

Program 3 30 credits

A second master's degree for students who have either permanent certification, Nursery-6, or a master's in Elementary Education.

NOTE: The Specialization in Reading within the MS in Elementary Education leads to Reading Teacher Certification.

MA in Secondary Education (Teacher Education Program—TEP, see p. 38), offered in collaboration with the following departments or programs:

Art	Mathematics*
Biology*	Music
English	Social Studies (Economics, History, Political Science, Russian Area Studies)
French*	Spanish*
Italian*	
Latin	

Department of Curriculum and Teaching

MA in Teaching English to Speakers of Other Languages p. 44

Advanced Certificate: School Administrator & Supervisor p. 46

Department of Educational Foundations and Counseling Programs

MSEd in Guidance & Counseling (School Counselor) p. 46

MSEd in Rehabilitation Counseling p. 48

Department of Health and Physical Education

**MSEd in Physical Education p. 55

**MSEd in School Health Management p. 55

MS in Dance/Movement Therapy p. 55

MS/MSW in Dance/Movement Therapy and Social Work (dual degree program) p. 56

Department of Special Education

MSEd in Education: Special Education, with concentration in:

Learning Disorders p. 51

Behavior Disorders p. 51

Hearing Impairment p. 52

Visual Impairment p. 52

Severe Disabilities/Including Deaf-Blindness p. 52

*These programs are currently being revised to serve individuals without prior New York State certification. Please consult the subject area advisor for further information.

** Admission to these programs has been suspended.

TEACHER EDUCATION PROGRAMS

MS in Elementary Education, N-6

The MS in Elementary Education programs described below have replaced all previous master's programs in Elementary Education for students admitted to matriculation for the Spring, 1992 semester and thereafter. Students who were matriculated prior to the Spring, 1992 semester should consult the 1989-91 Graduate Catalog for descriptions of courses and for degree requirements.

The MS in Elementary Education has three programs. These programs are designed to accommodate students with different levels of preparation in teacher education. **Program 1** is for students who do not have NYS certification in elementary education and who have not completed a program leading to such certification. **Program 2** is for students with provisional certification in elementary education. **Program 3** is a second master's degree for students who have permanent certification in elementary education.

Admission Requirements

Matriculated Status: Applicants will be considered for matriculation in Program 1 or Program 2 with a cumulative grade point average of 2.7 or better in their undergraduate work. Meeting this minimum requirement does not guarantee admission to the program, which is based, by necessity, on the limitations of space and resources. In addition, they must have completed a concentration (major) in a liberal arts subject and have one college level course in English, mathematics, science, social studies, and a language other than English. Students who do not fulfill these requirements must take appropriate undergraduate courses as a condition of matriculation. Courses taken to meet admission conditions will not be credited toward the MS degree and should be completed within the first three semesters after admission. Students applying for Program 2 must have NYS Provisional Certification in Elementary Education, or must provide proof that they have completed a state-approved program leading to such certification. Students applying for the Track 3 program must show proof of completion of a master's degree in elementary education or permanent state certification in elementary education.

Non-Matriculated Status: Students who apply for matriculation but do not have the required grade point average may be admitted to non-matriculant status. They may take up to 9 credits of designated required courses from the appropriate MS program (Program 1 or Program 2). Students must have a G.P.A. of 3.0 or better in these nine credits to be admitted to matriculation. Any course taken as non-matriculant in which a student receives a grade of "C" will not count toward the degree, unless a special waiver is granted by the dean. (Students who meet the requirements for matriculation but begin the program as nonmatriculants because they missed the application deadline, may apply for matriculation prior to completing the nine credits.) Students will not be allowed to take more than nine credits as nonmatriculants. These credits must be chosen from courses designated for this purpose. During the term in which the nine credits will be completed, students should re-apply for matriculation.

Program 1: 35 to 49 credits

Coordinator André L. Thibodeau, West Building 1000 phone 772-4623

Program 1 is designed for students who do not have NYS Certification in Elementary Education, and who have not completed a program leading to such certification. The number of required credits for obtaining the degree is determined by the

student's educational background. Program 1 has three components:

1. a **Pre-Core sequence** with a maximum of 31 credits. Students can receive course exemptions for the successful completion of undergraduate or graduate level courses equivalent to pre-core courses. Course exemptions can reduce the total number of credits in the degree. All students must complete a minimum of two courses (6 credits) from the pre-core plus either supervised student teaching or a supervised on-the-job practicum for teachers of elementary grades in New York City schools. A chart is provided below to indicate how pre-core exemptions will affect the content and credits in Program 1.
2. a **15 credit Basic Core**
3. a **3 credit Integrative Seminar**

In the required integrative seminar, students will produce a culminating research project. Completion of this research project is a requirement for obtaining the MS in Elementary Education degree.

The maximum number of credits for receiving this degree is 49 and this would only be required for the student whose educational background does not include any courses judged to be equivalent to the pre-core requirements. The minimum number of credits for the degree is 35.

Program 1 – Pre-Core

		Credits
ED F 706	Social, Historical, Philosophical Foundations of Education: The American School	3
ED F 709	Child Development	3
ED F 710	Educational Psychology	3
ED C 700	Art of Effective Teaching: Emphasis on the Social Studies	3
ED C 703	Teaching Science in the Elementary School	3
ED C 704	Teaching Developmental Reading	3
ED C 705	Mathematics Curricula and Methodology	3
HED 714	Health Education for the Classroom	3
One of the following:		
ED C 706	Music in the Elementary School	3
or		
ED C 707	Art in the Elementary School	3
One of the following:		
ED C 708	Supervised Student Teaching in the Elementary School	4
or		
ED C 709*	Supervised Practicum in the Elementary School (for those with a full-time teaching assignment)	2

Students in Program 1 are advised to take **ED C 708, Supervised Student Teaching in the Elementary School**, or **ED C 709, Supervised Practicum in the Elementary School** (for those with a full-time elementary teaching assignment) immediately upon completion of the following pre-requisites from the Pre-Core:

ED F 706, ED F 709, EDF 710;
ED C 700, ED C 704, ED C 705, and ED C 706 or 707

*Students intending to take EDC 709 must submit an "Application for Teaching Practicum," available in room 1000 west and receive approval.

Program 1 – Basic Core

		Credits
ED C 730	Advanced Studies in Teaching Reading	3
ED F 715	Diversity in American Education	3
ED F 716	Evaluation and Assessment of Children	3
Two of the following:		
ED C 712	Critical/Analytical Thinking in Math	3
ED C 713	Critical/Analytical Thinking in Science	3
ED C 714	Educational Technology in Elementary Education (Students with an undergraduate equivalent of this course should take ED C 712 and 713.)	3

Program 1 – Integrative Seminar

		Credits
ED F 792	Integrative Seminar in Educational Foundations, Teaching and Learning	3
or		
ED C 792	Integrative Seminar in Curriculum, Teaching and Learning	3

Pre-Core Exemptions and Program 1 Requirements

Equivalent Coursework	Additional Course Requirements	Total No. of Credits for the MS Degree
0	0	47-49
3	0	44-46
6	0	41-43
9	0	38-40
12	0	35-37
15	ED C 711	35-37
18	ED C 711	35-37
	plus a 3 credit elective*	
21	ED C 711	35-37
	plus two 3 credit electives*	

Designated Courses for Nonmatriculant Students – Program 1

Nonmatriculants may only enroll in the courses indicated below.

		Credits
ED C 700	Art of Effective Teaching: Emphasis on the Social Studies	3
ED C 704	Teaching Developmental Reading	3
ED C 705	Mathematics Curricula and Methodology	3
ED F 706	Social, Historical, Philosophical Foundations of Education: The American School	3
ED F 709	Child Development	3
ED F 710	Educational Psychology	3

At least one ED C course and one ED F course from the above list of courses must be taken as part of the nine credits required for matriculation.

*Students may select as an elective any course from a specialization in Program 2. They may also choose EDSPC 700, Issues and Practices in Educating Persons with Disabilities, or PED 760, Workshop in Physical Education.

Program 2: 33 Credits

Coordinator Rena Subotnick, 1307 East Building phone 772-4623

Program 2 is a 33 credit program designed for students who enter the MS degree program with NYS Provisional Certification in Elementary Education or completion of a program leading to such certification. It consists of an 18 credit core curriculum and a 12-15 credit specialization. Students selecting a 12 credit specialization take a 3 credit elective. All specializations include a required integrative seminar in which students produce a **culminating research project**.

Program 2 – Core Curriculum

	Credits
ED F 715 Diversity in American Education	3
ED F 716 Evaluation and Assessment of Children	3
ED C 711 Oral and Written Language in the Elementary School Curriculum	3
ED C 710 Studies in Curriculum and Instructional Pedagogy	3

Two of the following:

ED C 712 Critical/Analytical Thinking in Mathematics	3
ED C 713 Critical/Analytical Thinking in Science	3
ED C 714 Education and Technology in Elementary School (Students with an equivalent of this course should take the above two courses.)	3

Specialization (12-15 credits)

Students must select one of the following areas as a specialization and complete all of the requirements of that specialization.* All specializations include an integrative research seminar which requires completion of a culminating research project. Specializations are either 12 or 15 credits. (Students selecting a 12 credit specialization will take a 3 credit elective.)

Arts and Humanities (12 credits)**

Three of the four courses listed below:

	Credits
ED C 750 Children's Art	3
ED C 737 Literature in the Elementary School	3
ED C 758 Advanced Studies in Teaching Music in the Elementary School	3
THC 776 Creative Dramatics	3

and (required)

ED C 759 Aesthetic Education: Research Seminar	3
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Early Childhood Education (15 credits)**Required**

	Credits
ED C 720 Curriculum Theory and Practice in Early Childhood Education	3
ED F 729 Child Study: Cognitive and Affective Development of Children, Birth to Age Eight	3

ED C 739 Integrative Seminar in Early Childhood Education (final course in sequence)	3
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AND

6 credits to be chosen from the following:

ED C 721 Language and Literacy In Early Childhood	3
ED C 722 Seminar in Administration and Supervision in Early Childhood Education	3
ED C 723 Music in Early Childhood	3

Education of the Gifted and Talented (15 credits)*

	Credits
ED F 730 Conceptions of Giftedness and Talent: Definitions, Identification, and Implications for Programming	3
ED F 731 Socioemotional Development of Gifted and Talented Students	3
ED C 772 Curriculum Development for the Gifted and Talented Child, Part 1: Emphasis on programmatic application to mathematics, science, social studies and language arts	3
ED C 773 Curriculum Development for the Gifted and Talented Child, Part 2: Emphasis on programmatic application to visual arts, performing arts and computers and other technology	3
ED F 732 Seminar in the Study of Gifted and Talented Children	3

Mathematics Education (12 credits)**Required**

	Credits
ED C 740 Contemporary Mathematics of the Elementary School	3
ED C 741 The Development of Mathematical Concepts in Children	3
ED C 742 Workshop in Elementary School Mathematics	3
ED C 743 Research Seminar in Elementary School Mathematics	3

Multicultural Education (12 credits)**Required**

	Credits
ED F 741 Cultural and Social Factors in Development and Learning	3
ED F 747 Theory and Practice of Multicultural/Multiethnic Education	3
ED F 749 Research Seminar in Multicultural Education	3
AND ONE OF THE FOLLOWING TWO COURSES	
ED F 746 Race, Ethnicity, & Culture in American Education	3
ED F 748 American Education and Issues of Diversity: Special Topics	3

*Specialization selection forms are available from the Program 2 coordinator and from 1000 West.

**These specializations may not be offered at all times.

*Not currently available, but may be offered in the future.

Reading Teacher Specialization (15 credits)*

(Prerequisite ED C 730 Advanced Studies in the Teaching of Reading or special permission based on prior coursework)
Required

	Credits
ED C 731 Reading Instruction in Elementary Schools: Backgrounds and Research	3
ED C 733 Diagnosis of Reading Difficulties	3
ED C 734 Practicum in the Remediation of Reading Difficulties	3
ED C 735 Integrative Seminar: Research and Practice in Remedial Reading	3

Required (to be taken at any point)

ED C 737 Literature in the Elementary School	3
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**Science Education (12 credits)
Required**

	Credits
ED C 776 Biological Science Background for Elementary Teachers	3
ED C 777 Physical Science Background for Elementary Teachers	3
ED C 778 Methods of Teaching Environmental Science	3
ED C 779 Research Seminar in Science Education	3

Elective

Students taking a 15 credit specialization need not take an elective course. Students taking 12 credit specializations may select a three credit elective from any other specialization, or may take one of the courses listed below:

	Credits
PED 760 Workshop in Physical Education	3
EDSPC 700 Issues and Practices in Educating Persons with Disabilities	3
EDSPC 715 Classroom Management of Students with Mild/Moderate Disabilities (Pre-req. EDSPC 700)	3

Designated Courses for Nonmatriculated Students – Program 2

Nonmatriculants may enroll only in the courses indicated below.

	Credits
ED C 710 Studies in Curriculum and Instructional Pedagogy	3
ED C 711 Oral and Written Language in the Elementary School Curriculum	3
ED C 712 Critical/Analytical Thinking in Mathematics	3
ED C 713 Critical/Analytical Thinking in Science	3
ED C 714 Education and Technology in Elementary School	3

*The Specialization in Reading within the MS in Elementary Education leads to Reading Teacher Certification.

ED F 715 Diversity in American Education	3
ED F 716 Evaluation and Assessment of Children	3

At least one ED C course and one ED F course from the above list must be taken as part of the nine credits required for matriculation.

Program 3: 30 credits

Program 3 is designed as a second master's degree for students who already have either an MS degree in Elementary Education or NYS Permanent Certification in Elementary Education, and who are seeking an additional 30 credits beyond their degree. This is not a program that leads to teacher certification. This program requires students to complete two of the following specializations:

- * Arts and Humanities (12 credits)
- * Early Childhood Education (15 credits)
- * Education of the Gifted and Talented (15 credits)
- * Mathematics Education (12 credits)
- * Multicultural Education (12 credits)
- * Reading Teacher Specialization (15 credits)
- * Science Education (12 credits)

Students who complete two 12 credit specializations will take 6 credits of electives. Those completing one 12 credit specialization and one 15 credit specialization will take 3 credits of elective coursework. Students who complete two 15 credit specializations will have no elective credits. (See section on electives under Program 2 for guidance on selecting elective courses.)

Bilingual Education

Coordinator José A. Vázquez, West Building room 925
phone 772-4764/65

The purpose of this specialization is to provide an intensive curriculum that will prepare the teacher and prospective teacher to function successfully in a bilingual classroom. Its focus is on developing in the participants a high level of professional competency in teaching, based on the premise that using a language as the instructional medium is entirely different from teaching a language as a subject.

The MS in Elementary Education with a bilingual extension has two programs. These programs are designed to accommodate students with different levels of preparation in teacher education. **Program 1** is for students who do not have New York State provisional certification in elementary education and who have not completed a program (with or without a bilingual extension) leading to either of such certifications. **Program 2** is for students with provisional certification in elementary education (with or without a bilingual extension) or who have completed a program leading to either of these certificates.

Admission Requirements

Matriculated Status: Students applying for matriculation in Program 1 or Program 2 must have a cumulative grade point average of 2.7 or better in their undergraduate work and must demonstrate proficiency in both oral and written English and Spanish. In addition, they must have completed a concentration (major) in a liberal arts subject and have one college level course in English, mathematics, science, social studies, and a language other than English. Students who do not fulfill these requirements must take appropriate undergraduate courses as a condition of matriculation. Courses taken to meet admission conditions will not be credited

*These specializations may not be offered at all times.

toward the MS degree and should be completed within the first three semesters after admission.

For admission to Program 2 students must have New York State Provisional Certification in Elementary Education (with or without a bilingual extension) or must provide proof that they have completed a state-approved program leading to one of these certificates. Students who have not completed a college supervised student teaching experience in bilingual education will be required to complete either BILED 781, Supervised Practicum for Bilingual Teachers, or BILED 782, Supervised Student Teaching in a Bilingual Setting, as a condition of admission. This admission condition will not be credited towards the MS degree.

Nonmatriculated Status: Students who apply for matriculation but do not have the required grade point average may be considered for nonmatriculant status. They may take up to 9 credits of required courses from the appropriate MS program (Program 1 or Program 2). Students must have a G.P.A. of 3.0 or better in these nine credits to be admitted to matriculation. (Students who meet the requirements for matriculation but begin the program as nonmatriculants because they missed the application deadline, may apply for matriculation prior to completing the nine credits.) Students will not be allowed to take more than nine credits as nonmatriculants.

Program 1: 41 to 55 credits

Program 1 is designed for students who do not have NYS Certification in Elementary Education, and who have not completed a program leading to such certification. The number of required credits for obtaining the degree is determined by the student's educational background. Program 1 has four components:

1. **A Pre-Core sequence** with a maximum of 28 credits. Students can receive course exemptions for the successful completion of undergraduate or graduate level courses equivalent to pre-core courses. Course exemptions can reduce the total number of credits in the degree. All students must complete a minimum of two courses (6 credits) from the pre-core plus either supervised student teaching or a supervised practicum on the job for teachers of bilingual education in New York City elementary schools. A chart is provided below to indicate how pre-core exemptions will affect the content and credits in Program 1.
2. **A 12 credit Basic Core**
3. **A 15 credit bilingual specialization** (including a 3 credit integrative seminar).
4. **A culminating research project** (produced in the required integrative seminar). Completion of this research project is a requirement for obtaining the MS Elementary Education degree.

The maximum number of credits for receiving the degree is 55; this would only be required of the student whose educational background does not include any courses judged to be equivalent to the Pre-Core requirements. The minimum number of credits for the degree is 41.

PROGRAM — 1 (41 to 55 Credits)

Pre-Core		Credits
ED F 706	Social, Historical, Philosophical Foundations of Education: The American School	3
ED F 709	Child Development	3

ED F 710	Educational Psychology	3
ED C 703	Teaching Science in the Elementary School	3
ED C 704	Teaching Developmental Reading	3
ED C 705	Mathematics Curricula & Methodology	3
HED 714	Health Education for the Classroom Teacher (and one of the following)	3
ED C 706	Music in the Elementary School	3
	or	
ED C 707	Art in the Elementary School (and one of the following)	3
BILED 781*	Supervised Practicum for Bilingual Teachers	2
	or	
BILED 782	Supervised Student Teaching in a Bilingual Setting	4
Sub-Total		26-28 credits

Basic Core

ED C 730.50**	Advanced Studies in Teaching Reading	3
BILED 779	Multicultural Education	3
ED F 716.50**	Evaluation and Assessment of Children (and one of the following)	3
ED C 712	Critical/Analytical Thinking Through Math	3
	or	
ED C 713	Critical/Analytical Thinking Through Science	3
	or	
ED C 714	Education and Technology in the Elementary School	3
Sub-Total		12 credits

Bilingual Specialization:

BILED 701	Principles and Practices in Bilingual Education	3
BILED 771	Psychology of Language Learning & Teaching	3
BILED 778	Native Language Instruction for the Bilingual Classroom: (Spanish)	3
EDESL 783	Teaching English as a Second Language	3
BILED 780	Bilingual Education Inquiry: Research and Evaluation (Integrative Seminar)	3
Sub-Total		15 credits

Students who have successfully completed courses in education equivalent to pre-core courses may receive a maximum of 12 credits of course exemptions that will reduce the total number of credits for the degree.

*A supervised on-the-job practicum for teachers of elementary grades in bilingual settings in New York City schools.

**Sections with a .50 designation indicate that the content of the course addresses instructional issues relevant to bilingual classrooms, making up the 24 credits required by New York State for certification as an elementary teacher of bilingual education.

Pre-Core Exemptions and Program 1 Requirements		
Equivalent Coursework	Additional Course Requirements	Total No. of Prior Credits for the MS Degree
0	0	53-55
3	0	50-52
6	0	47-49
9	0	44-46
12	0	41-43
15	ED C 711.50	41-43
18	ED C 711.50	41-43
	plus a 3 credit elective*	
21	ED C 711	41-43
	plus two 3 credit electives*	

PROGRAM — 2 (33 Credits)

Program 2 is designed for students who have provisional certification in elementary education, with or without a bilingual extension. Students who have not completed a college supervised student teaching experience in bilingual education will be required to complete either BILED 781 — Supervised Practicum for Bilingual Teachers or BILED 782 — Supervised Student Teaching in a Bilingual Setting, as a condition of admission. This admission condition will not be credited toward the MS degree.

Basic Core

	Credits
ED C 711.50**Oral and Written Language in the Elementary School	3
ED F 715 Diversity in American Education	3
ED F 716.50**Evaluation and Assessment of Children (and two of the following)	3
ED C 712 Critical/Analytical Thinking Through Math	3
ED C 713 Critical/Analytical Thinking Through Science	3
ED C 714 Education & Technology in the Elementary School	3
Sub-Total	15 credits

Bilingual Specialization

BILED 701 Principles and Practices in Bilingual Education	3
BILED 778 Native Language Instruction for the Bilingual Classroom: Spanish	3
EDESL 783 Teaching English as a Second Language	3
BILED 771 Psychology of Language Learning & Teaching	3
BILED 779 Multicultural Education	3
BILED 780 Bilingual Education Inquiry: Research & Evaluation Integrative Seminar	3
Sub-Total	18 credits

*Students may select as an elective any course from a specialization in Program 2 of the master's degree in elementary education. They may also choose EDSPC 700, Issues and Practices in Educating Persons with Disabilities, or PED 760, Workshop in Physical Education.

**Sections with a .50 designation indicate that the content of the course addresses instructional issues relevant to bilingual classrooms, making up the 24 credits required by New York State for certification as a teacher of bilingual education.

MA—SECONDARY EDUCATION

Advisement: Office of Educational Services,
West Building 1000 phone 772-4623

Programs in the areas of biology, French, Italian, Spanish and mathematics are currently being revised to serve individuals without prior New York State certification. Please consult the subject area advisor for further information. The Latin and music programs are currently being revised to add another track for persons without prior NYS certification.

MA—DEGREE PROGRAM FOR THE PREPARATION OF SECONDARY EDUCATION TEACHERS OF ENGLISH (Grades 7-12)

Advisement for Education Requirements: Office of Educational Services,
West Building 1000 phone 772-4623

Offered with the English Department. The applicant must be admitted by both the Division of Programs in Education and the English department.

Matriculation Requirements: Teacher Education Program in English

Matriculation is open to graduates of accredited institutions acceptable to Hunter College who hold baccalaureate degrees, and who have a cumulative grade point average of 2.7 or better and a major subject index of at least 3.0. Students must also have completed 21 credits of coursework in English. (See English Department section of the catalog for specific course requirements in English.) One year of college level study of a language other than English is also required.

Students who have a 3.0 or better index in English courses but whose cumulative grade point index is below 2.7 may be considered for admission to non-matriculant status. The student so admitted will be directed to take a specified sequence of courses in education totaling 9 credits, must achieve an index of 3.0 or better in these 9 credits, and must then re-apply for admission as a matriculant.

This Teacher Education Program (TEP) is not for individuals who already have provisional certification in teaching English. Provisionally certified teachers should apply for the Master of Arts in English. However, they may take 3 or 6 credits of advanced courses in the teacher education sequence as electives, with the approval of the English Department advisor.

Required Secondary Education Sequence (15-24 credits)

Basic Core: 12 credits

Students with equivalent prior coursework in education may be waived out of 3 or 6 credits of basic core of courses.

- EDF S 700* Advanced Study of Human Development: Focus on Adolescents in Secondary Education
- EDF S 701* Advanced Study of Social Issues for Teachers in Secondary Schools
- EDF S 702* Advanced Study of Educational Psychology: Applications to Secondary Education
- EDC S 710 Advanced Study of Secondary School Learning Environments

*A negative tuberculosis test is required for entry to these courses because they include one hour of fieldwork in the public schools.



Advanced Courses: 6 credits

- EDC S 711 Literature for Young Adults and Relevant Comprehension Strategies
- EDC S 712 Advanced Study of Methods of Teaching English in Secondary Schools

Student Teaching or Practicum: 3 or 6 credits

Students who have teaching appointments in junior or senior high schools will be supervised on their jobs as part of the practicum. Another part of this practicum will entail 30 hours of supervised fieldwork in an afterschool or other school based program. Those students who are employed as high school teachers will do fieldwork in a junior high school program. Those students employed as junior high school teachers will do fieldwork in a high school program.

Students who are not employed as secondary school teachers are required to complete student teaching at both junior and senior high school levels.

- | | | |
|-----------|--|---|
| EDC S 721 | Advanced Supervised Student Teaching of English in Grades 7-9 | 3 cr
1 hr weekly seminar plus 150 clock hours of fieldwork |
| | and | |
| EDC S 731 | Advanced Supervised Student Teaching of English in Grades 10-12 | 3 cr
1 hr weekly seminar plus 150 clock hours of fieldwork |
| | or | |
| EDC S 741 | Supervised Practicum in the Teaching of English in Secondary Schools | 3 cr
1 hr weekly seminar (and fulltime teaching) |

English Department Subject Area Requirement: 21-24 credits

Total Number of Credits Required for the Degree: 36-48

Comprehensive Examination

The culminating experience for students in the Teacher Education Program in English is a comprehensive examination. This **required** examination has two parts. Part I is an essay based upon the required coursework in education. Part II, taken during the last semester of study in English, is also an essay. In this part, students are asked to synthesize their knowledge of literature by writing about several works (poems, plays, novels, etc.) of special interest to them and selected in consultation with the graduate advisor.

MA—DEGREE FOR THE PREPARATION OF SECONDARY EDUCATION TEACHERS OF SOCIAL STUDIES (Grades 7-12)*

Advisement for Education Requirements: Office of Educational Services, West Building, room 1000 phone 772-4623

Offered with the History Department. The applicant must be admitted by both the Division of Programs in Education and the History Department.

Admission Requirements: Teacher Education Program in Social Studies*

Matriculation is open to graduates of accredited institutions acceptable to Hunter College who hold baccalaureate degrees, and who have a cumulative grade point average of 2.7 or better and a major subject index of at least 3.0. (See History Department section of the catalog for specific course requirements in social studies.) One year of college-level study of a language other than English is also required.

Students who have a 3.0 or better index in social studies courses but whose cumulative grade point index is below 2.7 may be considered for admission to non-matriculant status. The student so admitted will be directed to take a specified sequence of courses in education totaling 9 credits, must achieve an index of 3.0 or better in these 9 credits, and must then re-apply for admission as a matriculant.

This Teacher Education Program (TEP) is not for individuals who already have provisional certification in teaching social studies. Provisionally certified teachers should apply for the Master of Arts in history or another area of social studies. However, they may take 3 or 6 credits of advanced courses in the teacher education sequence as electives, with the approval of the History Department advisor.

Required Secondary Education Sequence (12-21 credits)

Basic Core: 12 credits

Students with equivalent prior coursework in education may be exempted from 3 or 6 credits of basic core courses.

- EDF S 700 Advanced Study of Human Development: Focus on Adolescents in Secondary Education
- EDF S 701 Advanced Study of Social Issues for Teachers in Secondary Schools
- EDF S 702 Advanced Study of Educational Psychology: Applications to Secondary Education
- EDC S 710 Advanced Study of Secondary School Learning Environments

Methods: 6 credits

- EDC S 715 Advanced Methods of Teaching Social Studies in Secondary Schools

*Pending N.Y.S. Education Department approval.

**Student Teaching or Practicum: 3 or 6 credits**

Student Teaching Students who are not employed as secondary school teachers are required to complete student teaching at both junior and senior high school levels, i.e., EDC S 725 and EDC S 735.

EDC S 725 Advanced Supervised Student Teaching of Social Studies in Grades 7-9 3 cr
1 hr weekly seminar plus 150 clock hours of fieldwork

and
EDC S 735 Advanced Supervised Student Teaching of Social Studies in Grades 10-12 3 cr
1 hr weekly seminar plus 150 clock hours of fieldwork

or
Practicum Students who have teaching appointments in junior or senior high schools will be supervised on their jobs as part of the practicum, EDC S 742.

EDC S 745 Supervised Practicum in the Teaching of Social Studies in Secondary Schools 3 cr
1 hr weekly seminar (and fulltime teaching)

Education Requirement: 12-21 credits

Subject Area Requirement: 18-27 credits

Total Number of Credits Required for the Degree: 30-48

Comprehensive Examination

The culminating experience for students in the Teacher Education Program in Social Studies is a comprehensive examination. This required examination has two parts. Part I is an essay based upon the required coursework in education. Part II is an essay based upon the study of U.S. history, European history, and world or non-Western history.

MA—THE TEACHING OF LATIN (7-12)

Advisement: Classical and Oriental Studies
West Building, room 1425A phone 772-5061

Offered with the Classics Department. The applicant must be admitted by both the Division of Programs in Education and the Classics Department. Please see the Classics section of the catalog for a description of this program.

MA—TEP PROGRAMS IN TEACHING ART OR IN TEACHING MUSIC (K-12)

Offered with the Art Department or the Music Department. The applicant must be admitted by both the Division of Programs in Education and the appropriate subject area department.

Matriculation is open to graduates of accredited institutions acceptable to Hunter College who hold baccalaureate degrees and who meet established standards in general education, areas of specialization and professional preparation. (The Graduate Record Examination and references are not required.) A minimum cumulative average of 2.5 and a major subject index of at least 3.0 are required.

In addition to the above matriculation requirements, admission to the MA/TEP program assumes that the applicant can meet the New York State Certification requirements in either art or music, which are minimally: 12 credits in education*; a student teaching experience or one year of full-time teaching in the certification subject area and 24 credits in the subject area.

Students with inadequate preparation for admission to matriculation have an alternative route, which is to seek admission as undergraduate non-degree students. They may then take the necessary undergraduate courses in order to qualify for graduate admission at a later date.

Further information is available from the Office of Admissions or from the Office of Educational Services.

Professional Content for Secondary School Teachers In each of the curricula for secondary school teachers, the professional content requirements consist of one course from each of the following areas:

Area 1: Social Foundations of Urban Education

	Credits
EDFDN 703 Advanced Social Foundations	3
EDFDN 705 Philosophy of Education	3
EDFDN 706 History of American School	3

Area 2: Measurement and Evaluation

EDFDN 721 Educational Evaluation	2
EDFDN 722 Educational Tests and Measurements	2

Area 3: Curriculum and Teaching

EDUC 731 Reading Instruction in Elementary Schools: Advanced Course	3
EDUC 755 Teaching of Reading in Secondary Schools	3

The departments listed below offer courses for teachers of secondary school subjects, for elementary school teachers seeking to extend their undergraduate major, and for other teachers with particular needs in their areas of specialization. See department listings for details.

Art	Romance Languages
Biological Sciences	Social Studies (see offerings under anthropology, economics, geology & geography, history, political science, Russian area studies, sociology)
English	
Latin	
Mathematical Sciences	
Music	

*Subject to approval by the Division of Programs in Education.

CURRICULUM AND TEACHING COURSE LISTINGS

Each course 45 hrs, 3 cr, unless otherwise noted.

ED C 700 The Art of Effective Teaching - An Emphasis on The Social Studies Entry course that includes the study of the components of teaching that embrace all curriculum areas with an emphasis on the Social Studies.

ED C 703 Teaching Science in the Elementary School A study of the philosophies and instructional strategies which will enable future educators to teach science to elementary school age children.

ED C 704 Teaching Developmental Reading Concepts, methods, and resources used to teach reading to children in elementary school.

ED C 705 Mathematics Curricula and Methodology Analysis of contemporary elementary mathematics curricula; strategies for teaching math concepts and procedures; resources; planning, teaching, and evaluating lessons.

ED C 706 Music in the Elementary School Methods and materials suitable for teaching music in K-6 classrooms.

ED C 707 Art in the Elementary School An introduction to the materials and techniques for teaching art to children, nursery through grade 6. A hands-on approach to problem solving, visual literacy and tactile awareness.

ED C 708 Supervised Student Teaching in the Elementary School Prereq or Coreq: ED F 706, ED F 710, ED F 709, ED C 700, ED C 704, ED C 705, ED C 706 or 707. Supervised observation and student teaching in elementary schools and a weekly seminar. Note: Applicants for student teaching in spring semester must apply during previous October. Applicants for fall semester must apply during previous March. Please note announcements of application conference.

ED C 709 Supervised Practicum in the Elementary School* Prereq or coreq: ED F 706, ED F 710, ED F 709, ED C 700, ED C 704, ED C 705, ED C 706 or 707. Supervised field placement in the setting where the student is a full-time member. In addition a weekly 2 hour seminar will be held at the college.

ED C 710 Advanced Studies in Curriculum and Instructional Pedagogy Entry course in Basic Core of program. Focuses on the development of reflective skills and abilities that lead to higher levels of effective teaching.

ED C 711 Oral and Written Language in the Elementary School Curriculum Prereq or coreq: ED C 704 or equivalent. The study of language and usage with strategies for fostering oral and written language learning in elementary school classrooms.

ED C 712 Critical and Analytical Thinking in Mathematics Preq or coreq: ED C 705 or equivalent. Ways to set up and monitor mathematical investigations designed to promote flexible problem solving, active learning, finding patterns, reasoning logically, formulating and verifying hypotheses. Error analysis and remediation.

ED C 713 Critical/Analytical Thinking in Science Prereq or coreq: ED C 703 and ED F 709. The most prevalent goal of science education is to make students effective problem solvers. This course will focus on ways to improve children's critical thinking skills via hands on/minds on science activities. Results of the most recent research findings will be analyzed.

ED C 714 Education and Technology in the Elementary School Overview of research and theory related to the use of technology in educational settings with an emphasis on state-of-the-art classroom applications.

ED C 717 Independent Study in Curriculum and Teaching Prereq or coreq: Permission of faculty advisor. Independent study in the areas of curriculum or teaching methodology. A maximum of 6 credits of independent study may be counted toward the degree.

ED C 718 Independent Study in Curriculum and Teaching Prereq or coreq: Permission of faculty advisor. Independent study in the areas of curriculum or teaching methodology. A maximum of 6 credits of independent study may be counted toward the degree.

ED C 719 Independent Study in Curriculum and Teaching Prereq or coreq: Permission of faculty advisor. Independent study in the areas of curriculum or teaching methodology. A maximum of 6 credits of independent study may be counted toward the degree.

ED C 720 Curriculum Theory and Practice in Early Childhood Education Prereq or coreq: ED F 729. The philosophical foundations of early childhood curriculum are explored as a backdrop against which to understand the organization of the physical setting and the planning of appropriate curriculum activities for children from birth to age eight.

ED C 721 Language and Literacy in Early Childhood An introduction to language acquisition in children, second language acquisition, and the development of literacy. Special emphasis is placed on language and culture, dialect variation and the development of social and academic language. May not be offered every year.

ED C 722 Seminar in Administration and Supervision in Early Childhood Education Prereq or coreq: ED C 720 and ED F 729. Principles underlying the administration and supervision of educational personnel and programs in public and private schools and all institutions for children ages 6 months to 8 years. Emphasis on multicultural educational matters as they relate to administration and supervision. May not be offered every year.

ED C 723 Music in Early Childhood Methods and materials suitable for teaching music in an early childhood setting. This course may not be offered every year.

ED C 730 Advanced Studies in the Teaching of Reading Prereq or coreq: ED C 704. Teaching Developmental Reading, or undergraduate or graduate equivalent. Teaching and learning approaches in developmental reading in the elementary school (nursery through grade 6), based on classroom assessments.

ED C 731 Reading Instruction in Elementary Schools: Backgrounds and Research Prereq or coreq: ED C 730 or permission of the reading specialization advisor. Historical backgrounds and research on the reading process from the initial stages through the upper grades of the elementary school. Students study research on the history of reading and the theoretical underpinnings of classical and current approaches in reading instruction at every stage.

ED C 733 Diagnosis of Reading Difficulties Prereq: ED C 731. Factors related to reading difficulty; procedures for diagnosing reading achievement and related language skills. Diagnosis under supervision of children with reading difficulties.

ED C 734 Practicum in the Correction of Reading Difficulties Prereq: ED C 733. Theoretical considerations and procedures in the treatment of pupils with reading difficulties. Supervised diagnosis and treatment of pupils with reading difficulties.

ED C 735 Integrative Seminar: Research and Practice in Reading Prereq: ED C 734. Advanced techniques and specialized approaches in the treatment of pupils with reading difficulties. Integration of reading theory and practice.

ED C 737 Literature in the Elementary School Survey of literature for elementary schools with emphasis on use of such materials for classrooms.

ED C 739 Integrative Seminar in Early Childhood Education Prereq and coreq: ED C 720, ED F 729, and two other courses in the Early Childhood Specialization. This course integrates the key components of early childhood education programs. It examines the development of the early childhood teacher, the children they teach, the curriculum, the roles of parents and their rights and responsibilities. Students develop and use various research tools to observe and report on these four components of early childhood programs.

ED C 740 Contemporary Mathematics of the Elementary School Prereq or coreq: ED C 712. A study of some advanced mathematical topics that underlie modern elementary school curricula. The structure and use of mathematical systems, numeration systems and their historical development; geometrical constructions.

ED C 741 Development of Mathematical Concepts in Children Prereq or coreq: ED C 712. Developmental levels of mathematical concepts are examined through the work of Piaget and others. Techniques for determining developmental levels and related learning activities are explored. Individual projects will be carried out with children.

ED C 742 Workshop in Elementary School Mathematics Prereq or coreq: ED C 712. Exploration of special programs developed to make use of manipulative materials. Individualized projects in developing teaching materials for children using a variety of media.

ED C 743 Research Seminar in Elementary School Mathematics Prereq or coreq: ED C 712, ED C 740 and ED C 741. An examination of current research in mathematics education. Students will prepare a comparative, evaluative

*A supervised on-the-job practicum for teachers of elementary grades in New York City schools.

paper of the research related to a specific curriculum topic or a problem in the learning or teaching of mathematics.

ED C 750 Children's Art An inquiry into how children, pre-school and elementary, move through stages of image-making. Assesses the various influences that block or encourage the creative art process. May not be offered every year.

ED C 758 Advanced Studies in Teaching Music in Elementary School Prereq or coreq: A prior course in music education or permission of the instructor. Offered as an advanced course: Supplements content knowledge and extends abilities for teaching music K-6. May not be offered every year.

ED C 759 Aesthetic Education Research Seminar Prereq or coreq: three courses from among the following: ED C 737, 750, 758, THC 776. Culminating experience for Arts and Humanities concentration; study of arts, aesthetics, and curriculum construction; research project.

ED C 772 Curriculum Development for the Gifted and Talented Child (Part I: With an emphasis on programmatic application to mathematics, science, social studies and language arts). Prereq or coreq: A course in methods of teaching. Principles of curriculum design specific to gifted and talented children will be applied to the content areas of mathematics, science, social studies and language arts (including reading). Field-based assignments are part of the course.

ED C 773 Curriculum Development for the Gifted and Talented Child (Part II: With an emphasis on programmatic application to visual arts, performing arts and computers and other technology). Prereq or coreq: ED C 772. Curriculum development for the gifted and talented child, with an emphasis on programmatic application to visual arts, performing arts and computers and other technology. Field-based assignments are part of the course.

ED C 776 Biological Science Background for Elementary Teachers Prereq or coreq: ED C 710, and either ED C 712 or 713. Concepts in the Biological Sciences necessary for teaching science in the elementary school will be explored. Appropriate laboratory experiences will be provided. Writing requirements will include analytical and descriptive papers on selected topics.

ED C 777 Physical Science Background for Elementary Teachers Prereq or coreq: ED C 710, and either ED C 712 or 713. Concepts in the Physical Sciences necessary for teaching science in the elementary school will be explored. Appropriate laboratory experiences will be provided. This course is open to students selecting the Science Specialization. It may be selected as an elective by others enrolled in the MA in Elementary Education provided they have satisfied the prerequisites.

ED C 778 Methods of Teaching Environmental Science in the Elementary School Prereq or coreq: ED C 712 or 713 and ED C 710. Basic ecological and sociological concepts will be developed to help identify and analyze major environmental problems and issues.

ED C 779 Research Seminar in Science Education Prereq: ED C 776, ED C 777, ED C 778. Study of research design and proposal writing techniques for the study of science education. Includes the evaluation of selected science research studies, and the production of an original research proposal.

ED C 790 Special Topics in Curriculum and Teaching Prereq or coreq: Department permission. Varied topics in curriculum and teaching with a focus on curriculum or material development and teaching methodology and strategies.

ED C 792 Integrative Seminar in Curriculum, Teaching and Learning Prereq or coreq: Completion of 12 credits in Basic Core courses. Research seminar. Students do research on topics which summarize and apply previous learnings. Written and oral presentations.

ED C 794 Integrative Seminar in Curriculum, Teaching and Learning Prereq or coreq: completion of 12 credits of Basic Core courses. Research seminar. Students do research on topics which summarize and apply previous learnings. Written and oral presentations.

ED C S 710 Advanced Study of Secondary School Learning Environments. Prereq or coreq: ED F S 700, 701, 702. Establishment of effective learning environments with a focus on learner/teacher dynamics, group process and classroom management.

ED C S 711 Literature for Young Adults and Relevant Comprehension Strategies Prereq: ED F S 700, 701. Prereq or coreq: ED F S 702. Familiarizes prospective teachers with a wide variety of young adult literature and appropriate methodology for selecting and teaching materials based on their stu-



dents' special needs, interests, abilities, styles of learning and multi-cultural backgrounds. Includes reading strategies to promote better comprehension of literature and to assist reluctant readers.

ED C S 712 Advanced Study of Methods of Teaching English in Secondary Schools Prereq: ED F S 700, 701, 702. Coreq: ED C S 710, 711. Familiarizes prospective English teachers with curriculum materials, instructional approaches, innovative teaching techniques and evaluative procedures.

ED C S 715 Advanced Methods of Teaching Social Studies in Secondary Schools Prereq: ED F S 700, 701, 702. Prereq or coreq: ED C S 710. Rational, methodology and resources for teaching social studies based on current theories of the nature of students, social studies and secondary schooling.

ED C S 721 Advanced Supervised Student Teaching of English in Grades 7-9 Prereq: ED F S 700, 701, 702. Coreq: ED C S 710, 711, 712. Supervised observation and student teaching in grades 7-9 in a NYC junior high or intermediate school for 150 clock hours. One hour weekly seminar at the college.

ED C S 725 Advanced Supervised Student Teaching of Social Studies in Grades 7-9 Prereq: ED F S 700, 701, 702. Prereq or coreq: ED C S 710, 725. Supervised observation and student teaching in grades 7-9 in a NYC junior high or intermediate school for 150 clock hours. One hour weekly seminar at the college.

ED C S 731 Advanced Supervised Student Teaching of English in Grades 10-12 Prereq: ED C S 721. Supervised student teaching in English in a senior high school for 150 clock hours. One hour weekly seminar at the college.

ED C S 735 Advanced Supervised Student Teaching of Social Studies in Grades 10-12 Prereq: ED F S 700, 701, 702; ED C S 710, 715, 725. Supervised student teaching in social studies in a senior high school for 150 clock hours. One hour weekly seminar at the college.

ED C S 741 College Supervised Practicum in the Teaching of English in Secondary Schools Prereq: ED F S 700, 701, 702; ED C S 710, 711, 712. On-the-job supervision for students who are employed as teachers of English in NYC secondary schools, plus 30 hours of additional fieldwork.

ED C S 745 College Supervised Practicum in the Teaching of Social Studies in Secondary Schools Prereq: ED F S 700, 701, 702; ED C S 710, 715. On-the-job supervision for students who are employed as teachers of social studies in secondary schools in New York City, plus seminar to refine teaching skills.

EDUCATIONAL FOUNDATIONS COURSE LISTINGS

Each course 45 hrs, 3 cr, unless otherwise noted.

ED F 706 Social, Historical, Philosophical Foundations of Education: The American School An in-depth study of the social, historical, and philosophical foundations of education and their impact on the American school.

ED F 709 Child Development Theories and research applied to children's development. Understanding and working with children from diverse backgrounds to foster optimal growth.

ED F 710 Educational Psychology Prereq or coreq: ED F 709 (or equivalent). Advanced Education Psychology. Theories and research applied to learning, motivation, cognition, pupil and teacher relationships, and classroom management with a focus on students from diverse backgrounds.

ED F 715 Diversity in American Education Prereq or coreq: ED F 706. A survey of issues and concerns related to diversity in the U.S. with an emphasis on race, ethnicity, culture, gender, class, language, and exceptionalism and their effect on urban education and the implications for teachers.

ED F 716 Evaluation and Assessment of Children Prereq or coreq: ED F 710 or 709. Principles of educational evaluation and assessment. Theories and research applied to the evaluation of diverse student populations. Foundations of construction and interpretation of standardized and teacher-made tests.

ED F 717 Independent Study in Educational Foundations Prereq or coreq: Permission of faculty advisor. Independent study in the areas of psychological or social foundations of education. A maximum of 6 credits of independent study may be counted toward the degree.

ED F 718 Independent Study in Educational Foundations Prereq or coreq: Permission of faculty advisor. Independent study in the areas of psychological or social foundations of education. A maximum of 6 credits of independent study may be counted toward the degree.

ED F 719 Independent Study in Educational Foundations Prereq or coreq: Permission of faculty advisor. Independent study in the areas of psychological or social foundations of education. A maximum of 6 credits of independent study may be counted toward the degree.

ED F 729 Child Study: Cognitive and Affective Development of Children, Birth to Age Eight Prereq or coreq: ED F 716. An examination of contemporary themes in cognitive and affective development as they apply to early childhood years. The emphasis is on a study of the developmental changes of this period and of the processes underlying these changes.

ED F 730 Conceptions of Giftedness and Talent: Definitions, Identification, and Implications for Programming Prereq or coreq: A course in educational psychology or permission of the instructor. Analysis of varying conceptions of giftedness and talent with implications for identification procedures and the design of program options for levels nursery through grade 12. Field-based assignments are part of the course.

ED F 731 Socio-emotional Development of Gifted and Talented Students Prereq or coreq: A course in child development or permission of the instructor. Analysis of socio-emotional development of gifted and talented individuals with implications for educational settings. Field-based assignments are part of the course.

ED F 732 Seminar in the Study of Gifted and Talented Children Prereq or coreq: ED F 730, 731; ED C 772, 773. Study of research design and proposal writing techniques for the study of gifted and talented children. Includes the evaluation of selected psychological and educational studies, and the production of an original research proposal.

ED F 740 Cognitive and Affective Development of Children* Prereq or coreq: ED F 716. An examination of contemporary themes in cognitive and affective development with an emphasis on developmental changes and the processes underlying these changes and transitions.

ED F 741 Cultural and Social Factors in Development and Learning Theories and research applied to the interaction between cultural/social factors and selected aspects of development. Emphasis is placed on the pervasive influences of culture on cognition, sense of self, and classroom interactions.

ED F 742 Cognitive Processes and Learning Strategies in the Subject Areas* Theory and principles of cognitive science applied to learning and instruction in the subject areas. Theories and research focused on the devel-

opment of cognitive self-regulation procedures appropriate to major academic domains. May not be offered every year.

ED F 743 Learning Theories and Their Application to Instruction and Classroom Management* Prereq or coreq: ED F 716. In-depth study of learning theories to meet the diverse needs of students. The application of learning theories to a variety of classroom structures. May not be offered every year.

ED F 744 Seminar in the Study of Children's Learning and Development* Prereq or coreq: ED F 740 and 741 plus either ED F 742 or 743. Study of research design and proposal writing techniques for the study of child development and education. Includes the evaluation of selected psychological and educational studies, and the production of an original research proposal.

ED F 746 Race, Ethnicity and Culture in American Education An introduction to the social and cultural foundations of education. It provides an overview of the major racial/ethnic groups in America, examines how race, ethnicity and culture in conjunction with gender, class, ability, disability and other diversity have contributed to educational inequality. It also explores the concepts, issues, and perspectives in multicultural/multiethnic education that work toward greater educational equity.

ED F 747 Theory and Practice of Multicultural/Multiethnic Education Prereq or coreq: ED F 746. Analysis of theories and practices of multicultural/multiethnic education with emphasis on the history, goals, conceptual and philosophical issues of cultural diversity with implications for curriculum reform and teaching.

ED F 748 American Education and Issues of Diversity: Special Topics An examination of the history and adaptation of old and new immigrant groups in the U.S. and their experience in the American educational system. Emphasis is on the role of culture, structure, and policy in facilitating and/or hindering opportunities for immigrants to achieve educational equity. May not be offered every year.

ED F 749 Research Seminar in the Study of Multicultural Education Prereq or coreq: ED F 746, 747, and 748 or 741. Study of research design and proposal writing techniques for the study of multicultural education. Includes the evaluation of selected social foundation studies, and the production of an original research proposal.

ED F 790 Special Topics in Educational Foundations Prereq or coreq: Department permission. Varied topics in educational foundations that are of current interest or need.

ED F 792 Integrative Seminar in Educational Foundations, Teaching and Learning Prereq or coreq: Completion of 12 credits of Basic Core courses. Research seminar. Students do research on topics which summarize and apply previous learnings. Written and oral presentations.

ED F S 700 Advanced Study of Human Development: Focus on Adolescents in Secondary Education* Coreq: ED F S 701. Cognitive, emotional, personality, social and physical development from childhood through adolescence, with a focus on adolescence. Two hours of class work at Hunter College and one hour of fieldwork in a secondary school. A two hour workshop on child abuse will be included.

ED F S 701 Advanced Study of Social Issues for Teachers in Secondary Schools* Coreq: ED F S 700. Current issues and themes in contemporary urban life deemed essential to the preparation of urban secondary teachers. Two hours of class work at Hunter College and one hour of fieldwork in a secondary school.

ED F S 702 Advanced Study of Educational Psychology: Applications to Secondary Education* Prereq or coreq: ED F S 700, 701. Basic educational psychology covering the characteristics of the learner, learning theories and applications and the instruction process as applied to the secondary setting. Two hour class, plus one hour of tutoring or mentoring students at Hunter College or a nearby high school.

HEALTH AND PHYSICAL EDUCATION COURSE LISTING

HED 714 Health Education for the Classroom Teacher Preparation of the elementary educator to assist school children in making decisions for optimum health and human functioning. Emphasis on alcohol, drugs, tobacco, family living and sex education, AIDS, nutrition and safety.

*May not be offered.

*A negative tuberculosis test is required for entry to these courses because they include one hour of fieldwork in the public schools.

BILINGUAL EDUCATION COURSE LISTINGS

Each course 45 hrs, including conferences, 3 cr, unless otherwise noted.

BILED 701 Principles and Practices in Bilingual Education Historical overview of bilingual education. Programs and instructional models. Psycholinguistic, sociolinguistic and sociocultural dimensions of bilingualism and bilingual education.

BILED 771 Psychology of Language Learning and Teaching Survey of the research in first and second language acquisition among children, adolescents and adults. Emphasis on the psychological underpinnings of the process and practical classroom applications in a New York City context.

BILED 778 Native Language Instruction for Bilingual Classroom: (Spanish) Prereq or coreq: Fluency in Spanish as required for admission to the Master's Program, Bilingual Extension. To enhance Spanish language skills for the purpose of teaching content areas in and through Spanish; to revise, adapt and develop Spanish curriculum materials for the bilingual classroom.

BILED 779 Multicultural Education Conceptual framework derived from anthropological, cross-cultural research on learning and interaction, emphasizing social studies.

BILED 780 Bilingual Education Inquiry: Research & Evaluation (An Integrative Seminar) Prereq or coreq: Students must have completed 12 credits in the bilingual education specialization plus all pre-core course requirements. The integrative seminar will review significant bilingual research to consider the implications of findings for bilingual instruction. Students will develop their own research or evaluation project as a culminating experience.

BILED 781 Supervised Practicum for Bilingual Teachers* 2 cr. Prereq or coreq: BILED 701, BILED 778 plus all pre-core course requirements. Supervised field placement in a bilingual instructional setting, where the student is a full-time teacher, accompanied by a weekly two-hour seminar. Emphasis will be given to the development of competency in selecting and implementing teaching strategies in two languages, a student's native language and English.

BILED 782 Supervised Student Teaching in a Bilingual Setting 4 cr. Prereq or coreq: BILED 701, BILED 778 plus all pre-core course requirements. Supervised observation and student teaching in a bilingual elementary classroom, and a weekly seminar. Note: Applicants for student teaching in Spring semester must apply during the previous October. Applicants for Fall semester must apply during previous March. Please note announcements of application conference.

EDESL 783 Methodology of Teaching English to Speakers of Other Languages Methodology, theory and practice in teaching English to second-language learners and in evaluating their proficiency and progress.

MA—TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES (TESOL)

Coordinator Donald R. H. Byrd, PhD, West Building 1025
phone 772-4691 messages 772-4663/772-4666

The TESOL program is designed to educate men and women who wish to be involved in the teaching/learning process of students for whom English is a second or foreign language—either children or adults. The skill of teaching English to speakers of other languages is acquired through studying specialized methods and techniques that differ from those used by the teachers of English to native speakers. This preparation is the focus of the MA program in TESOL.

The MA program in TESOL is interdisciplinary. It encompasses courses that provide students with a theoretical and practical background in general linguistics, phonetics, the structure of American English, second-language acquisition research, related psychological, sociological, and anthropological aspects as well as the methods and materials of English language instruction to various populations. Students are advised to take certain courses in sequence after consultation with the coordinator.

*A supervised on-the-job practicum for teachers of elementary grades in bilingual settings in New York City schools.

There are two tracks in the program: (1) TESOL N-12 Track (36 credits) and (2) TESOL Adult Track (30 credits). Students must opt for one of these tracks when they submit their application forms. Applications cannot be processed until students have chosen one of the above tracks.

The minimum requirements for both tracks are listed below. Meeting these minimal requirements does not guarantee acceptance to the program, which is based, by necessity, on the limitations of space and resources. Admission to the program is highly competitive, and each applicant's grade point average, type of college courses taken, and quality of experience are all carefully considered for admission to the program.

Applicants with academic credentials from non-English-speaking countries are required to take the Test of English as a Foreign Language (TOEFL). These applicants must score at least 600 on the general test with 5.0 on the Test of Written English (TWE) and 200 on the Test of Spoken English (TSE).

A practicum is required in both tracks. For the TESOL N-12 Track, students must take EDESL 785, "Supervised Student Teaching," which may be waived with appropriate documentation of having taught ESL satisfactorily in the public schools for at least one year. However, students who are waived from EDESL 785 must take EDESL 784, "Fieldwork in TESOL," which is required of all students in the TESOL Adult Track.

Students who are in their last semester of study have a choice of either (1) writing a thesis (EDESL 780) for three credits or (2) sitting for a three-hour comprehensive examination, which carries no credit and is graded on a pass/fail basis.

(1) TESOL N-12 TRACK (36 credits)

The N-12 Track prepares students for New York State certification in TESOL, which each student may apply for through the college during the last semester in the program.

Minimum Admission Requirements (TESOL N-12)

1. A baccalaureate degree from an approved college or university
2. A grade point average of at least 2.7 on all undergraduate academic work
3. 12 credits of foreign language study documented on an undergraduate college transcript

Requirements for the Degree

1. A minimum of 36 credits beyond the baccalaureate degree as outlined below
2. A comprehensive examination or master's essay (EDESL 780)

Sequence of Courses

		Credits
LING 701	Introduction to General Linguistics	3
EDESL 783	Methodology of Teaching English to Speakers of Other Languages	3
EDESL 786	Phonetics of American English	3
ENGL 505	Structure of the English Language	3
LING 773	Theory and Research of Second Language Acquisition	3
ANTH 777	Language and Culture	3
EDESL 781	Workshop in Curriculum and Materials in TESOL	3

EDESL 785	Supervised Student Teaching in TESOL	4
BILED 701	Principles and Practices in Bilingual Education	3
EDFDN 721	Educational Evaluation	2

One of the following:

EDFDN 710	Advanced Educational Psychology	3
EDFDN 719	Advanced Child Development	3

One of the following:

EDFDN 703	Advanced Social Foundations	3
EDFDN 704	Anthropology in Contemporary American Education	3
EDFDN 705	Philosophy of Education	3
EDFDN 706	History of the American School	3

(2) TESOL ADULT TRACK (30 credits)

The TESOL Adult Track prepares students to teach adults in college, continuing education, literacy, business, private, and other academic and professional programs in the United States or abroad.

Minimum Admission Requirements (TESOL ADULTS)

1. A baccalaureate degree from an approved college or university
2. A grade point average of at least 2.7 on all undergraduate academic work
3. Three years of foreign language study documented on a college transcript or the documented equivalent (for example, extended study abroad in a language other than English).

Requirements for the Degree

1. A minimum of 30 credits beyond the baccalaureate degree as outlined below
2. A comprehensive examination or master's essay (EDESL 780)

Sequence of Courses

		Credits
LING 701	Introduction to General Linguistics	3
EDESL 783	Methodology of Teaching English to Speakers of Other Languages	3
EDESL 786	Phonetics of American English	3
ENGL 505	Structure of the English Language	3
LING 773	Theory and Research of Second Language Acquisition	3
ANTH 777	Language and Culture	3
EDESL 784	Fieldwork in TESOL	3
ELECTIVES	(See below)	9

Recommended Electives

EDESL 781	Workshop in Curriculum and Materials in TESOL	3
EDESL 782	Workshop: TESOL in Adult Education	3
EDESL 780	Seminar in Educational Research (master's essay)	3

OTHER ELECTIVES

BILED 701, 771, 777

EDFDN 702, 703, 704, 705, 706, 710, 719, 721

EDUC 730, 731, 737, 755

COURSE LISTINGS

Listed below are the courses in the TESOL MA curriculum. Most courses meet for forty-five hours and carry three credits. This listing represents the suggested sequence of study.

Entry Level Courses

LING 701 Introduction to General Linguistics The study of the basic components of linguistics and their applications.

EDESL 783 Methodology of Teaching English to Speakers of Other Languages An overview of classroom options for teaching English to second language learners.

Intermediate Level Courses

EDESL 786 Phonetics of American English Prereq: LING 701 or permission of TESOL adviser. Phonological (phonetic and phonemic) analysis of contemporary American speech.

LING 773 Theory and Research of Second Language Acquisition Prereq: LING 701 or permission of TESOL adviser. A survey of current theory and research in second language acquisition with particular reference to the acquisition of English.

ENG 505 Structure of the English Language Prereq: LING 701 or permission of TESOL adviser. Nature of language; structure of modern English, problems of usage.

ANTH 777 Language and Culture Prereq: LING 701 or permission of TESOL adviser. Role of language, dialect, and bilingualism in social life, including language of politics, language in education, language variation as related to context, sex, status, and topic.

EDESL 781 Workshop in TESOL Curriculum and Materials Prereq: LING 701 or permission of TESOL adviser. Overview of the various genres of learning materials in ESL/EFL (listening and audio cassettes, speaking and conversation, reading and vocabulary building, writing and composing, basal series for children and adults, dictionaries, computer-assisted learning materials, video programs and others).

EDESL 782 Workshop: TESOL in Adult Education Prereq: LING 701 or permission of TESOL adviser. A treatment of effective TESOL practices appropriate to the adult classroom.

Advanced Level Courses

EDESL 780 Seminar in Educational Research (Master's Essay) Prereq: Completion of 24 credits or permission of TESOL adviser. A written study, which may include a researched area, an analysis of a methodology, a review, evaluation, or critique of relevant literature, or a proposal for learning materials. Students in this course, who meet as a group and individually with the adviser, are exempt from taking the comprehensive examination. Registration by adviser's approval only.

EDESL 784 Fieldwork in TESOL Prereq: Completion of 24 credits or permission of TESOL adviser. Teaching practicum in a field setting with adult learners of English in the Community Outreach Program in English (COPE) on Saturdays. 60 hours, 3 credits.

EDESL 785 Supervised Student Teaching Prereq: Completion of 24 credits or permission of TESOL adviser. Teaching practicum in the public schools. 180 hours (90 hours in N-6; 90 hours in 7-12), 4 credits.

ADVANCED CERTIFICATE IN EDUCATIONAL ADMINISTRATION AND SUPERVISION

Coordinator Bruce Williams, West Building room 1026
phone 772-4692

Hunter College offers qualified candidates a 6th-year program in the supervision and administration of elementary and secondary schools. The program consists of 30 credits beyond the master's degree. It leads to a professional certificate granted by Hunter College. Students who complete the program also qualify for the New York State certificate in School Administration and Supervision (SAS) and may apply to New York State for the SAS and the School District Administrator (SDA). The program fulfills the requirements for the licensing of supervisors and administrators in the New York City public schools.

Minimum Requirements for Admission

1. Completion of an approved master's degree with a minimum average of B (3.0).
2. Regular certification or licensing as a teacher in elementary or secondary schools.
3. A minimum of 3 years of full-time teaching experience under regular appointment (or its equivalent) in elementary and/or secondary schools.
4. Promise of success in educational supervision and administration as revealed by a number of indices.

Method of Initiating Candidacy Applications for matriculation are accepted in the fall and spring semesters. A limited number of non-matriculants are accepted each semester for a maximum of 6 credits, provided they fulfill the admission requirements. Interested candidates may request further information from the program coordinator, or may obtain applications by writing to the Graduate Admissions Office at Hunter College.

Requirements for Completion of Program

A minimum of 4 semesters of part-time study. All courses must be completed in 5 years.

Required Courses (21 cr)

	Credits
ADSUP 700 Human Relations in Educational Administration	3
ADSUP 701 Organization and Administration of Public Schools I	3
ADSUP 702 Organization and Administration of Public Schools II	3
ADSUP 703 Supervision and Improvement of Instruction I	3
ADSUP 705 Research Seminar in Supervision and Administration	3
ADSUP 706 Field Experience Seminar in Supervision and Administration I	3
ADSUP 707 Field Experience Seminar in Supervision and Administration II	3

Elective Courses (9 cr) Electives are selected jointly by student and program coordinator from appropriate offerings on the post-master's degree level.

COURSE LISTINGS

Each course 45 hrs, including conferences, 3 cr, unless otherwise noted.

ADSUP 700 Human Relations in Educational Administration Interpersonal and group relationships applied to administrative and supervisory functions in schools; intensive experience in group process. Open only to matriculants.

ADSUP 701 Organization and Administration of Public Schools I Organizational behavior in schools and school districts—focus on district organization.

ADSUP 702 Organization and Administration of Public Schools II Organizational behavior in schools and school districts—focus on unit organization.

ADSUP 703 Supervision and Improvement of Instruction in Public Schools I An examination of productive supervisory techniques which promote the improvement of instruction.

ADSUP 704 Supervision and Improvement of Instruction in Public Schools II An examination of productive supervisory techniques which promote the improvement of instruction.

ADSUP 705 Research Seminar in Supervision and Administration Research design and the application of basic principles and techniques of research to supervisory and administrative problems in education.

ADSUP 706, 707 Field Experience Seminar in Administration and Supervision I, II Two-semester course combining a field experience arranged and completed in student's own district and a weekly seminar which includes a two-hour unit on reporting suspected cases of child abuse and maltreatment.

ADSUP 720 Theory and Principles of Curriculum Design Sources of curriculum and principles of curriculum design, with particular emphasis on role of supervisor/administrator as curriculum leader.

ADSUP 721 Human Relations in Supervision and Improvement of Instruction Prereq: ADSUP 700. Human relations theory and practice as they apply to educational decision-making, organizational structures, and dynamics of change.

ADSUP 722 Issues in Contemporary Education Substantive problems in policy planning, implementation and financing of curriculum, instruction, and school administration.

ADSUP 723 Evaluation of Educational Programs Models and methods for internal and comparative evaluation of educational programs in schools and school systems.

ADSUP 724 Supervision and Improvement of Instruction in Subject Fields: .50—Special Education .51—Bilingual/Multicultural Education Roles and functions of instructional supervisors in curriculum planning, supervising action, programming, and evaluating feedback.

ADSUP 726.50 Advanced Workshop in Curriculum Materials Development: Special Education Prereq: ADSUP 724.50 or special education background. Planning and supervising for special education students in mainstreamed classes and/or special education classes.

ADSUP 726.51 Advanced Workshop in Curriculum Materials Development: Content Areas Planning and supervising curriculum development in content areas.

ADSUP 727 Studies in History of Education Study of selected periods and topics in history of education; emphasis on historical development of educational institutions and practices.

ADSUP 728 Selected Topics in Supervision and Administration Students will be provided opportunities to study innovative practices in schools and to pursue a research area which relates practice to theory.

COUNSELING PROGRAMS

Hunter College offers 2 specialized graduate-level counseling programs to qualified students. Application for admission should indicate the program of choice. Enrollment by non-matriculated students must be approved by the program coordinator.

Philosophy of Graduate Programs

Central to all counseling approaches is the belief that people can develop, assume responsibility, achieve autonomy, and engage in problem solving. Effective counseling requires counselors to understand and accept clients, develop rapport, and establish collaborative working relationships. To achieve these ends, counselors need a background in the psychology of human development, counseling theories, and cultural similarities and differences, as well as skills in individual and group counseling, mastery of assessment techniques, and knowledge of current issues and research.

The Curriculum

The counselor-education curriculum at Hunter includes basic core courses and two specializations: guidance and counseling or rehabilitation counseling. The curriculum integrates theory and practice through a carefully sequenced series of courses with emphasis on fieldwork in urban settings.

Core Courses

Specialties in counseling share common principles and practices, including a body of knowledge, skills, and values. The courses listed below deal with material basic to the counseling programs offered at Hunter. Students in both counseling programs take the following courses: COCO 701, 702, 706, 707, 708.

Each course 45 hrs, including conferences, 3 cr, unless otherwise noted.

COCO 700 Life Stage Development Analysis of developmental stages throughout the lifespan.

COCO 701 Counseling Skills and Interviewing Techniques Effective communication and interviewing techniques with emphasis on listening and responding. Basic principles of ethical practice and client assessment.

COCO 702 Theories of Counseling Study of major counseling theories to provide foundation for basic concepts and techniques of counseling.

COCO 703 Psychological Aspects of Disability: Rehabilitation and Special Education Psychological, developmental, social, economic, and political concomitants with emphasis on attitudes, self-concept, and adjustment in a handicapping world.

COCO 704 Career Development Process and determinants of occupational choice and adjustment; career patterns in personal and vocational developmental counseling.

COCO 705 Vocational Assessment and Placement Application of principles of occupational development, vocational choice, work adjustment, job seeking skills, worksite analysis, and worker traits including special problems of the disabled. Sources and uses of occupational information, labor market trends. Emphasis on vocational evaluation, job development, follow-up.

COCO 706 Group Counseling Theory and principles of group counseling. Developing group counseling skills through practice.

COCO 707 Multicultural Aspects of Counseling Understanding behavioral patterns among people of different backgrounds. Developing counseling strategies for effective intervention.

COCO 708 Measurement and Appraisal Basic theory of measurement and appraisal. Practice in administration, scoring, and interpretation of major tests used in counseling settings with a focus on disabled and minority groups.

COCO 709 Research Methods in Counseling Principles and analysis of research methods. Use of assessment and evaluation measures. Review of the literature on research problems in the counseling field.

COCO 711 Supervision and Training in Counseling Knowledge and skills in the basic process of supervision and training of beginning counselors and others in human service professions. Assignments based on student needs.

COCO 741 Independent Study 15 hrs (supervised), 1 cr. Student will carry out independent project approved by faculty and supervised by a staff member.

COCO 742 Independent Study 30 hrs (supervised), 2 cr. Student will carry out independent project approved by faculty and supervised by a staff member.

COCO 743 Independent Study 45 hrs (supervised), 3 cr. Student will carry out independent project approved by faculty and supervised by a staff member.

MSEd—GUIDANCE & COUNSELING (School Counselor)

Coordinator Caroline Manuele Adkins, East Building room 1201
phone 772-4754

The 48-credit master's degree program in guidance and counseling prepares its graduates for careers in counseling in a variety of settings including elementary, junior high, and senior high schools, community and 4-year colleges, hospitals, correctional facilities, business and industrial organizations, community based organizations, unions, senior citizen facilities, and vocational training centers. Graduates of this program are eligible for New York State Certification as School Counselors.

The program is open to college graduates with a wide variety of academic and experiential backgrounds.

Minimum Requirements for Admission

1. Minimum undergraduate grade point average of 2.7; the Graduate Record Examination is not required.
2. 24 cr of approved courses from the following fields: anthropology, economics, education, guidance, health sciences, political science, psychology, and sociology, or related fields.
3. Approved oral and written expression.
4. Satisfactory recommendations from admission interviews and appropriate professional sources indicating a human service potential.

Meeting these minimal requirements does not guarantee acceptance to the program, which is based, by necessity, on the limitations of space and resources. Admission to the program is highly competitive and each applicant's grade point average, counselor potential and applicability of work and life experience are carefully considered.

In some instances a small number of students who demonstrate exceptional potential and experience, but have undergraduate G.P.A. of less than 2.7, may be recommended for provisional admission as non-matriculated students.

Requirements for the Degree

Students must maintain a 3.0 GPA to remain in the program and complete 48 credits of required course work for the MS in Education (counseling) degree. They must submit audiotapes and properly prepared papers based on service-delivery projects which will develop from course-connected field experiences. Grades of B or better must be achieved in the following skill-development courses: COCO 701, 705, 706 and COUNS 711, 717, 719.

At the completion of 30 credits and a school-based practicum experience, students are eligible for the New York State provisional certificate for school counselor. Permanent certification recommendation may be made after graduation.

Students must demonstrate counseling competencies as defined by the faculty in order to earn the master's degree.

The faculty may require that a student gain certain further experience and competencies before permission is granted for the final year's sequence.

Sequences**First Semester**

COCO 700	Life Stage Development	Credits	3
COCO 701	Counseling Skills and Interviewing Techniques		3

Second Semester

COCO 702	Theories of Counseling		3
COCO 706	Group Counseling		3

Third Semester

COCO 703	Psychological Aspects of Disability: Rehabilitation and Special Education		3
COCO 704	Career Development		3

Fourth Semester

COCO 708	Measurement and Appraisal		3
COCO 705	Vocational Assessment and Placement		3

Fifth Semester

COUNS 716	Urban Counseling		3
COUNS 717	Counseling Practicum		3

Sixth Semester

COCO 707	Multicultural Aspects of Counseling		3
COUNS 718	Leadership and Administration		3

Seventh Semester

COCO 709	Research Methods in Counseling		3
COCO 719	Counseling Internship		3

Eighth Semester

COCO 711	Supervision and Training in Counseling		3
COUNS 720	Research Project		3

Independent Study by arrangement with instructor

COCO 741			1
COCO 742			2
COCO 743			3

GUIDANCE & COUNSELING COURSE LISTINGS

Each course 45 hrs, including conferences, 3 cr, unless otherwise noted. All of the following courses are required.

COUNS 716 Urban Counseling Understanding urban ethnic, social and class systems. Developing novel counseling strategies for effective intervention.

COUNS 717 Counseling Practicum Developing individual and group counseling skills with a variety of clients and settings through supervised practice. Placement in counseling settings and additional hours to be arranged.

COUNS 718 Leadership and Administration Organization and administration of counseling programs; community resources; proposal writing.

COUNS 719 Counseling Internship Advanced development of individual and group counseling skills with a variety of clients and settings through supervised practice. Placement in counseling setting and additional hours to be arranged.

COUNS 720 Research Project Conducting evaluation or research project and writing report.

MSEd—REHABILITATION COUNSELING

Coordinator John O'Neill, East Building room 1205 phone 772-4755

This program is designed to prepare carefully selected and qualified students for a career in rehabilitation counseling. The graduates of the program work in a wide variety of agencies assisting disabled individuals to reach their maximum physical, emotional, social, intellectual, and vocational performance potential. The 50-credit 2-year program leads to a master of science in education (rehabilitation counseling) degree. The first year of the program may be taken part-time while the second year requires a full-time commitment. Federally funded traineeships may be available to students with demonstrated financial need. This program is accredited by the Council on Rehabilitation Education (CORE).

Minimum Requirements for Admission

1. Minimum undergraduate grade point average of 2.7; the Graduate Record Examination is not required.
2. 15-25 credits of approved courses from the following fields: anthropology, economics, education, guidance, health sciences, political science, psychology, sociology, and related areas.
3. Evidence of oral and written expression consonant with graduate-level study.
4. Interviews with faculty members, alumni, and currently enrolled students. Central among the purposes of these interviews is to assess counselor potential, applicability of work and life experience, and candidate expectations about both the programs and the field.
5. Recommendations from appropriate professional or academic sources to aid in determining potential for work as a professional rehabilitation counselor.

Meeting these minimal requirements does not guarantee acceptance to the program, which is based, by necessity, on the limitations of space and resources. Admission to the program is highly competitive and each applicant's grade point average, counselor potential and applicability of work and life experience are carefully considered.

In some instances a small number of students who demonstrate exceptional potential and experience, but have undergraduate G.P.A. of less than 2.7, may be recommended for provisional admission as non-matriculated students.

Requirements for Maintenance of Matriculation and Graduation

1. Students must maintain a 3.0 GPA to remain in the program and complete a minimum of 50 cr of course work to graduate.
2. Students must demonstrate rehabilitation counseling knowledge and skills as defined by the faculty, community agency supervisors, and the Council on Rehabilitation Education.
3. Participation in small group seminars and community and professional activities is required.
4. A student receiving a grade of C or below in any of the following courses cannot continue in the program: Counseling Skills, Practicum, Internship.
5. The faculty may require a student to gain additional experience in counseling skills and competencies before permission is granted to complete the program.

Additional Information

1. Field work placement must be in an approved and accredited rehabilitation agency.

- Students doing fieldwork must purchase their own professional liability insurance.
- Students are graded on academic work, examination, papers, oral presentations, peer group interactions, field placement tapes and verbatims, and supervisor's evaluations of achievement.

Areas of Concentration

Because the field of rehabilitation is constantly changing, course content, learning modes, and curricular emphasis must be continually examined and adjusted to assure currency and utility. Current economic conditions, social attitudes, and educational imperatives make it necessary for us to train counselors in new skills areas to meet the critical needs of the disabled. Thus, the curriculum has been revised to include two new areas of concentration within the rehabilitation counseling specialization:

- Chemical dependency in rehabilitation
- Transition from school to work.

Sequence—Alcohol (Chemical) Abuse

First Semester

		Credits
REH 716	Resources and Foundations of Rehabilitation	3
COCO 701	Counseling Skills and Interviewing Techniques	3
COCO 702	Theories of Counseling	3
COCO 703	Psychological Aspects of Counseling	3

Second Semester

REH 718	Supervised Practicum in Rehabilitation Counseling	3
COCO 708	Measurement and Appraisal	3
COCO 705	Vocational Assessment and Placement	3
REH 720	Medical Aspects of Disability	3

Third Semester

REH 710	Chemical Dependency: Issues in Counseling	3
COCO 707	Multicultural Aspects of Counseling	3
COCO 706	Group Counseling	3
REH 725	Internship in Rehabilitation Counseling I: Alcohol (Chemical) Abuse	4

Fourth Semester

COCO 709	Research Methods in Counseling	3
REH 721	Psychiatric Aspects of Counseling	3
REH 726	Internship in Rehabilitation Counseling II: Alcohol (Chemical) Abuse	4
REH 735	Seminar in Chemical Dependency: Counseling Skills and Techniques	3

Sequence—Transition from School to Work

First Semester

REH 716	Resources and Foundations of Rehabilitation	3
COCO 701	Counseling Skills and Interviewing	3
COCO 702	Theories of Counseling	3
COCO 703	Psychological Aspects of Counseling	3

Second Semester

REH 718	Supervised Practicum in Rehabilitation Counseling	3
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COCO 708	Measurement and Appraisal	3
COCO 705	Vocational Assessment and Placement	3
REH 720	Medical Aspects of Disability	3

Third Semester

EDSPC 780	The Study of Learning Disorders	3
COCO 707	Multicultural Aspects of Counseling	3
COCO 706	Group Counseling	3
REH 725	Internship in Rehabilitation Counseling I: Transition	4

Fourth Semester

COCO 709	Research Methods in Counseling	3
REH 721	Psychiatric Aspects of Counseling	3
REH 723	Transition from School to Adult Living for Youth with Disabilities	3
REH 726	Internship in Rehabilitation Counseling II: Transition	4

Approved Electives to be offered on a rotating basis to meet the needs of students and community:

REH 722	Employee Assistance Programs in Business and Industry	3
REH 727,728	Special Issues in Rehabilitation	3
REH 729	Special Concerns of Women with Chemical Dependency	3
REH 730	Rehabilitation Counseling with the Aged	3
REH 731	Independent Living	3
COCO 711	Supervision and Training in Counseling	3

Independent Study by arrangement with instructor

COCO 741	1
COCO 742	2
COCO 743	3

REHABILITATION COUNSELING COURSE LISTINGS

Each course 45 hrs, including conferences, 3 cr, unless otherwise noted. Enrollment in any course by non-matriculated students must be approved by the coordinator.

REH 710 Chemical Dependency: Issues in Counseling This course is designed to introduce students to the various aspects of alcoholism and other drug abuse in order to increase their understanding and awareness of the multifaceted problems involved and the implications for counseling.

REH 716 Resources and Foundations of Rehabilitation History, philosophy, and principles of the vocational rehabilitation process. Economic, legal, ethical, and social issues influencing rehabilitation service. Observation of clients and services available in state, city, and private agencies.

REH 718 Supervised Practicum in Rehabilitation Counseling 100 hrs, to be arranged in selected agencies in the field. 3 cr. Prereq: COCO 701, 702. Experience in applying techniques of counseling with disabled and alcoholic clients from selected state, city, and nonprofit agencies. Case seminars to discuss clients, roles, and responsibilities of counselor.

REH 720 Medical Aspects of Disability Study of etiology, symptoms, treatment and prognosis of physically disabled. Understanding of medical reports and basic medical terminology.

REH 721 Psychiatric Aspects of Counseling Prereq: advanced standing. Study of etiology, symptoms, treatment, and prognosis of psychiatric patient. Understanding psychiatric reports, basic terminology, and medications.

REH 722 Employee Assistance Programs in Business and Industry Knowledge of employee assistance programs, including alcoholism and disability management. Job analysis, counseling and referral techniques, confidentiality.

REH 723 Transition from School to Adult Living for Youth with Disabilities Prereq or coreq: EDSPC 700 or perm instr. Services, programs, and processes for facilitating the transition of disabled youth from school to work, post-secondary education, independent living, and adult roles.

REH 725 Internship in Rehabilitation Counseling I Each 300 hrs, 4 cr for 2 sem. Prereq: 25 cr in required courses or approved equiv; perm college field work supervisor required. Students working in the field with acceptable experience may receive 2 cr each for supervised counseling in their agencies. Supervised internship at accredited state, city, and private agencies. Development of counselor skills and techniques.

REH 726 Internship in Rehabilitation Counseling II As above, second half.

REH 727, 728 Special Issues in Rehabilitation Study of significant issues, problems and emerging trends in rehabilitation.

REH 729 Special Concerns of Women with Chemical Dependency Socio-economic, psychological, vocational and risk factors affecting the rehabilitation of women.

REH 730 Rehabilitation Counseling with the Aged Implications for personal adjustment of the aging and aged. Complex problems inherent in the aging process. Areas of counseling skills and techniques suitable to the older person.

REH 731 Independent Living History, development, and impact of de-institutionalization, with particular emphasis on federal legislation, current issues, trends, and service delivery systems. Approaches to the development of independent living centers and services.

REH 735 Seminar in Chemical Dependency: Counseling Skills and Techniques Introduces students to the various types of counseling involved in working with people who are chemically dependent. Students will have the opportunity to test skills and techniques necessary for counseling in a variety of settings which serve chemically dependent people.

Special Education

Advisors (all in West Building)

General Advisement Marsha Lupi, room 913W phone 772-4701;
Shirley Cohen, room 910W phone 772 4708
Lester Mann, room 916W phone 772-4742

Admissions and Hearing Impairment Rosemary Gaffney,
room 915W phone 772-4702

Learning Disorders Katherine Garnett, room 918W
phone 772-4700

Learning Disorders/Bilingual (Spanish) Marsha Lupi, room 913W
phone 772-4701

Behavior Disorders Ellis Barowsky, room 919W phone 772-4704

Visual Impairment, Visual Impairment: Rehabilitation Teacher, Severe Disabilities Including Deaf-Blindness Rosanne Silberman,
room 911W phone 772-4740/1

Chair Marsha Lupi, room 913 West Building phone 772-4701

Ombudsperson Ellis Barowsky, room 919 West Building phone 772-4704

The special education program prepares teachers to work with special needs students in public and private schools, hospitals, clinics, health agencies, and residential settings. Successful completion of the master's degree in special education leads to New York State Certification as Teacher of Special Education, Teacher of the Blind and Partially Sighted, or Teacher of the Deaf depending on the program selected.*

The program is organized into introductory core courses, concentrations, and advanced core courses. The introductory and the advanced core courses range over a variety of disabilities, while the concentrations emphasize the needs of particular disability groups. Concentrations are offered in Learning Disorders, Learning Disorders/Bilingual (Spanish), Behavior Disorders, Hearing Impairment, Visual Impairment, Severe/Multiple Disabilities, and Visual Impairment: Rehabilitation Teacher. Within the learning disorders (excluding bilingual) and behavior disorders concentrations, students may select an elementary or secondary focus.

Also available are dual concentrations in learning and behavior disorders.

*Also required: Successful completion of the National Teachers Exam: Core Battery.

In addition, students may add a communication sciences focus to the learning disorders concentration, or they may take a combined corrective reading/learning disorders program. In considering these combinations, students should consult advisors from both constituent programs.

MSEd—Special Education

Students may be admitted to one of two programs in special education. Program A requires 33-39 credits; Program B requires 45-49 credits.

Minimum Requirements for Admission

Program A This 33-39 credit program is open to graduates of approved colleges who have a BA and who meet the following requirements: a GPA in undergraduate coursework of at least 2.7; completion of an elementary education sequence resulting in eligibility for New York State Education Department certification N-6, or completion of a secondary education sequence resulting in eligibility for New York State Education Department certification at the secondary school level. Students with secondary school preparation will be admitted with an additional 6 credits of conditions. These conditions can be met by completing methods courses in reading and mathematics for the elementary school.

Some students who do not meet New York State teacher certification requirements may be admitted to Program A with conditions if they are deficient by no more than 12 credits. A student's conditions are met by completing the additional coursework in education. This coursework is not credited toward the master's degree.

Students seeking admission to the Learning Disorders/Bilingual Special Education Program must meet the standards for admissions to the graduate program in special education. In addition, they must demonstrate proficiency in oral and written English and Spanish. Applicants with academic credentials from non-English speaking countries are required to take the Test of English as a Foreign Language (TOEFL). Those applicants must score at least 600 on the general test with 5.0 on the Test of Written English (TWE) and 200 on the Test of Spoken English (TSE). Whenever a TOEFL score is not required, the applicant will be asked to write an essay, pass an interview with program staff or show proof of a PPT. A candidate's proficiency in Spanish will be assessed through a written essay and an interview with appropriate bilingual staff or proof of a bilingual license or a Spanish license from the New York City Board of Education.

Program B This 45-49 credit program is open to college graduates with a BA from an approved college who have a GPA of at least 2.7 in undergraduate coursework but have not completed a course sequence in elementary or secondary education.

Non-matriculants, Programs A and B Students not admitted to matriculated status in Programs A or B because of an undergraduate GPA of less than 2.7 may be recommended by the Admissions Committee to take 9 credits of coursework in special education as non-matriculants, provided their undergraduate GPA is at least 2.5. No more than 9 credits of special education courses may be taken as a non-matriculant. A student achieving at least a 3.0 GPA for these 9 credits may then re-apply for matriculated status. Non-matriculant grades below "B" are not credited towards the master's degree.

Note: In order to continue taking courses beyond 9 credits, students must be matriculated.

Requirements for the Degree**Program A**

1. Core and concentration courses totaling:

33 cr	—Learning Disorders: Elementary or Secondary Focus
36-42 cr	—Learning Disorders: Bilingual (Spanish) Focus
33 cr	—Behavior Disorders: Elementary or Secondary Focus
36 cr	—Hearing Impairment
36-37 cr	—Visual Impairment
40 cr	—Visual Impairment: Rehabilitation Teacher
32-33 cr	—Severe Disabilities Including Deaf-Blindness
39 cr	—Dual Learning/Behavior Disorders: Elementary Focus
39 cr	—Dual Learning/Behavior Disorders: Secondary Focus

2. Successful completion of a 2-part comprehensive examination

3. Satisfactory performance in 2 supervised practicum experiences

4. Demonstration of consistently satisfactory written English.

Course Sequences**Programs A & B**

Introductory Cross-Categorical Core Courses Credits

EDSPC 700 or Issues and Practices in Educating Per-
700.50* sons with Disabilities 3

EDSPC 710 or Assessment of Students with Mild/
700.50* Moderate Disabilities 3

EDSPC 709** Assessment of Learners with Severe/
Multiple Disabilities 3

EDSPC 711*** Developmental Problems of Students
with Disabilities 3

EDSPC 712** Language Development for Learners
with Severe/Multiple Disabilities 3

CONCENTRATIONS**Learning Disorders with Elementary Level Focus** (includes learning disabilities & mild-to-moderate mental retardation)

EDSPC 780	The Study of Learning Disorders	Credits
EDSPC 781	Methods for Teaching Students with Learning Disorders: Part A	3
EDSPC 782	Methods for Teaching Students with Learning Disorders: Part B	3
EDSPC 783	Supervised Clinical Teaching Practicum: Learning Disorders	3
EDSPC 774	Early Childhood Special Education: Models and Methods	3
EDSPC 777.51	Learning/Behavior Disorders Advanced Practicum: Elementary Focus	3

Learning Disorders with Secondary Level Focus (includes learning disabilities & mild-to-moderate mental retardation)

EDSPC 780	The Study of Learning Disorders	Credits
EDSPC 781	Methods for Teaching Students with Learning Disorders: Part A	3

*Required only for Learning Disorders: Bilingual (Spanish) Focus.

**Required only for severe disabilities including deaf-blindness concentration.

***Not required for students whose specialization includes a secondary focus.

EDSPC 782	Methods for Teaching Students with Learning Disorders: Part B	3
EDSPC 783	Supervised Clinical Teaching Practicum: Learning Disorders	3
EDSPC 762	Functional Curriculum for Adolescents & Adults with Mild/Moderate Disabilities	3
EDSPC 763	Transition from School to Adult Living for Youth with Disabilities	3
EDSPC 777.52	Learning/Behavior Disorders Advanced Practicum: Secondary Focus	3

Learning Disorders/Bilingual (Spanish)

EDSPC 780	The Study of Learning Disorders	Credits
EDSPC 781	Methods for Teaching Students with Learning Disorders: Part A	3
EDSPC 783	Supervised Clinical Teaching Practicum Learning Disorders	3
EDSPC 784	Curriculum Planning in Bilingual Special Education	3
EDSPC 777.53	Learning Disorders Practicum Bilingual (Spanish)	3
BILED 701	Principles and Practices of Bilingual Education	3
BILED 771	Psychology of Language Learning and Teaching	3
BILED 779	Multicultural Education	3
EDESL 783	Methodology of Teaching English to Speakers of Other Languages	3

Behavior Disorders with Elementary Level Focus

EDSPC 750	The Study of Behavior Disorders	Credits
EDSPC 753	Methods for Teaching Students with Behavior Disorders	3
EDSPC 781	Methods for Teaching Students with Learning Disorders: Part A	3
EDSPC 756	Practicum: Behavior Disorders	3
EDSPC 774	Early Childhood Special Education: Models and Methods	3
EDSPC 777.51	Learning/Behavior Disorders Advanced Practicum: Elementary Focus	3

Behavior Disorders with Secondary Level Focus

EDSPC 750	The Study of Behavior Disorders	Credits
EDSPC 753	Methods for Teaching Students with Behavior Disorders	3
EDSPC 781	Methods for Teaching Students with Learning Disorders: Part A	3
EDSPC 756	Practicum: Behavior Disorders	3
EDSPC 762	Functional Curriculum for Adolescents & Adults with Mild/Moderate Disabilities	3
EDSPC 763	Transition from School to Adult Living for Youth with Disabilities	3
EDSPC 777.52	Learning/Behavior Disorders Advanced Practicum: Secondary Focus	3

Dual Learning/Behavior Disorders Concentration with Secondary Focus

Entire sequence in Learning Disorders with Secondary Focus <i>plus</i> :		Credits
EDSPC 750	The Study of Behavior Disorders	3
EDSPC 753	Methods for Teaching Students with Behavior Disorders	3

Dual Learning/Behavior Disorders Concentration with Elementary FocusEntire sequence in Learning Disorders with Elementary Focus *plus*:

	Credits
EDSPC 750 The Study of Behavior Disorders	3
EDSPC 753 Methods for Teaching Students with Behavior Disorders	3

Hearing Impairment

	Credits
EDSPC 730 Language Development for the Deaf Child	3
EDSPC 731 Language, Reading and Deafness	3
EDSPC 732 Speech Science and Speech Development in the Deaf Child	3
EDSPC 733 Speech Development and Remediation in Deaf Children	3
EDSPC 734 Aural Rehabilitation	3
EDSPC 735 Curriculum Adaptations for Deaf Students	3
EDSPC 736.50 Practicum I: Hearing Impaired	2
EDSPC 736.51 Practicum II: Hearing Impaired	2
EDSPC 737 Total Communication: Sign Language	2

Visual Impairment

	Credits
EDSPC 740 Educational Implications of Visual Impairments	3
EDSPC 741 Education and Rehabilitation of Individuals with Visual Impairments	3
EDSPC 742 Curriculum for Learners with Visual Impairments	3
EDSPC 743 Communication Skills for Learners with Visual Impairments	3
EDSPC 744 Assistive Technology for Learners with Visual Impairments	3
EDSPC 746.50 Practicum I: Visual Impairment	2
EDSPC 746.51 Practicum II: Visual Impairment	2
EDSPC 747 Principles of Orientation and Mobility for Teachers of Learners with Visual Impairment	3
1 elective, selected in conjunction with the advisor	2 or 3

Visual Impairment: Rehabilitation Teaching*

	Credits
EDSPC 700 Issues and Practices in Educating Persons with Disabilities	3
EDSPC 740 Educational Implications of Visual Impairments	3
EDSPC 741 Education and Rehabilitation of Individuals with Visual Impairments	3
EDSPC 743 Communication Skills for Learners with Visual Impairments	3
EDSPC 744 Assistive Technology for Learners with Visual Impairments	3
EDSPC 747 Principles of Orientation and Mobility for Teachers of Learners with Visual Impairment	3
EDSPC 760 Skills and Techniques for Rehabilitation Teaching I	3
EDSPC 761 Skills and Techniques for Rehabilitation Teaching II	3
EDSPC 764 Principles of Vocational Rehabilitation and Independent Living Rehabilitation for Adults with Visual Impairments	3

*Not required for hearing impairment, visual impairment, or severe disabilities including deaf-blindness concentrations.

EDSPC 765	Internship I: Rehabilitation Teaching for Individuals with Visual Impairments	2
EDSPC 766	Internship II: Rehabilitation Teaching for Individuals with Visual Impairments	2
REH 720	Medical Aspects of Disability	3
REH 730	Rehabilitation Counseling with the Aged	3
COCO 701	Counseling Skills and Interviewing	3

Severe Disabilities/Including Deaf-Blindness

Covers Electives Involving Learners		Credits
EDSPC 719	Family Involvement in the Education of Students with Disabilities	3
EDSPC 737	Total Communication: Sign Language	2
EDSPC 790	Foundations and Educational Implications of Severe/Multiple Disabilities	3
EDSPC 791	Curriculum Strategies for Teaching Learners with Severe/Multiple Disabilities	3
EDSPC 792	Classroom Management for Effective Behavioral and Educational Program- ming for Learners with Severe/ Multiple Disabilities	3
EDSPC 796.50	Practicum I: Severe/Multiple Disabilities	2
EDSPC 796.51	Practicum II: Severe/Multiple Disabilities	2
1 elective selected in conjunction with the advisor		2 or 3

Advanced Cross-Categorical Core Courses

Advanced Cross-Categorical Core Courses		Credits
EDSPC 715*	Classroom Management of Students with Mild/Moderate Disabilities	3
EDSPC 706** or 706.50***	Integrative Seminar	3

Electives

		Credits
EDUC 731	Reading Instruction in Elementary Schools: Advanced Course	3
EDSPC 716	Topics in Special Education	3
EDSPC 719	Family Involvement in the Education of Students with Disabilities	3
EDSPC 728.51 (.52, .53)	Independent Study in Special Education	1,2, or 3
EDSPC 738.51 (.52, .53)	Independent Study in Education of Deaf	1,2, or 3
EDSPC 748.51 (.52, .53)	Independent Study in Education of Blind and Visually Impaired	1,2, or 3
EDSPC 770	The Neuropsychology of Disability	3
EDSPC 750****	The Study of Behavior Disorders	3
EDSPC 753****	Methods for Teaching Students with Behavior Disorders	3
EDSPC 762****	Functional Curriculum for Adolescents	3
EDSCP 763****	Transition from School to Adult Living for Youth with Disabilities	3
EDSPC 774	Early Childhood Special Education	3
EDSPC 780****	The Study of Learning Disorders	3
EDSCP 782****	Methods for Teaching Students with Learning Disorders: Part B	3

*Not required for hearing impairment, visual impairment, rehabilitation teaching or severe disabilities including deaf-blindness concentrations.

**Not required for rehabilitation teacher specialization.

***Required only for Learning Disorders (Bilingual).

****Considered an elective when not required within the selected concentration.

Program B Only Requirements in General Education

Students who have completed one or more courses of equivalent content on the undergraduate level may request that program coordinators recommend waiver of the course(s) to the Office of Educational Services. Equivalent courses taken on the graduate level at other institutions may be submitted for transfer of credit to satisfy these requirements as well.

		Credits
ED F 706	Social, Historical, Philosophical Foundations of Education: The American School	3
ED F 709	Child Development	3
ED C 704	Teaching Developmental Reading	3
ED C 705	Mathematics Curricula & Methodology	3
EDUC 709	Drug Abuse Education	1
ED C 730*	Advanced Studies in Teaching Reading	3

Learning Disabilities/Bilingual (Spanish)**Requirements**

All courses are 45 hours, 3 credits unless otherwise noted.

ED C 704	Teaching Developmental Reading
ED C 705	Mathematics Curricula & Methodology
ED C 730	Advanced Studies in Teaching Reading and
ED C 714	Education and Technology in Elementary School
	or
ED C 711	Oral and Written Language in the Elementary School
	or
ED C 713	Critical/Analytical Thinking in Science

COURSE LISTINGS

Each course 45 hrs, 3 cr, unless otherwise noted.

EDSPC 700 Issues and Practices in Educating Persons with Disabilities** Current and historical views of individuals with disabilities; legal and educational perspectives; definition of population; effects of disabilities on social, emotional and psychological development; required child abuse identification and training session.

EDSPC 706 Integrative Seminar** Prereq or coreq: 24 cr in special education or perm chair. Integration of theory and practice as related to concerns across the entire field of special education. Two major reports, one oral and one written, are included in course requirements.

EDSPC 709 Assessment of Learners with Severe/Multiple Disabilities Prereq or coreq: EDSPC 700, 790. Study of procedures used in assessment of learners with severe disabilities. Emphasis on behavior observation techniques, ecological inventories, appropriate adaptive behavior scales, and task analytic assessment. Practice in use of selected tests.

EDSPC 710 Assessment of Students with Mild/Moderate Disabilities** Prereq or coreq: EDSPC 700. Study of processes and procedures used in the psychoeducational assessment of disabled children and youth. Uses and limitations of assessment measures and procedures. Practice in use of selected tests for students with mild/moderate disabilities.

EDSPC 711 Developmental Problems of Students with Disabilities Prereq or coreq: EDSPC 700. Study of normal development and the developmental deviations of those with various disabilities. Educational implications for working with children and youth in special education.

*Not required for hearing impairment, visual impairment, rehabilitation teaching or severe disabilities including deaf-blindness concentrations.

**Bilingual sections of these courses are offered. They are indicated by a .50 designation to these course numbers.

EDSPC 712 Language Development for Learners with Severe/Multiple Disabilities Prereq or coreq: EDSPC 700. Designed to help students learn basic information about acquisition and development of language skills in normal children and in severely/multiply disabled learners. Effects of severe impairments on communication. Methods of facilitating language acquisition.

EDSPC 715 Classroom Management of Students with Mild/Moderate Disabilities Prereq or coreq: EDSPC 700. Develops skill in using a variety of approaches to ameliorate classroom management problems of students with mild/moderate disabilities including behavior modification, communication strategies, and psychoeducational approaches.

EDSPC 716 Topics in Special Education Prereq or coreq: EDSPC 700, 710, 711. In-depth study of one area relevant to working with disabled persons.

EDSPC 719 Family Involvement in the Education of Students with Disabilities Prereq: EDSPC 700 and current practicum placement or teaching position. The effects of a disabled child on family members. Strategies for communication with culturally diverse family groupings. Planning with parents, effecting change, and securing support from community resources.

EDSPC 728.51, 728.52, 728.53 Independent Study in Special Education 15-45 hrs, 1-3 cr. Independent study is designed to allow advanced students to pursue in greater depth a topic of particular interest within field of special education. Students must obtain approval of a special education advisor to take EDSPC 728.51 (1 cr). EDSPC 728.52 and 728.53 require approval of both advisor and chair.

EDSPC 730 Language Development for the Deaf Child Study of language acquisition in hearing and deaf children. Theoretical and practical aspects of the deaf child's receptive and expressive language skills. Contemporary trends and methods used to facilitate language acquisition in deaf children.

EDSPC 731 Language, Reading and Deafness Prereq or coreq: EDSPC 730. Instructional procedures to facilitate language learning in deaf students. Assessment and remediation techniques. Special assessment and instructional procedures for teaching reading to deaf students.

EDSPC 732 Speech Science and Speech Development in the Deaf Child Prereq or coreq: EDSPC 730. Psychoacoustic aspects of sound and their relationship to speech acquisition in hearing and deaf children. Human speech and hearing mechanisms and phonological development of hearing children; effects of various degrees of loss on speech acquisition. Sense modalities in speech production. Broad stages of speech acquisition in young deaf children.

EDSPC 733 Speech Development and Remediation in Deaf Children Prereq: EDSPC 732. General and specific effects of hearing impairment on the production of speech. Typical speech and voice errors of deaf children. Methods, procedures and materials used for speech development and remediation. Current educational technology.

EDSPC 734 Aural Rehabilitation Prereq or coreq: COMSC 641, EDSPC 730, 732. Principles and methods of teaching speechreading; principles and methods of auditory training; methods, procedures, and materials used in development of communication ability.

EDSPC 735 Curriculum Adaptations for Deaf Students Curriculum and instructional procedures specific to education of deaf students. Adaptations of regular curriculum to meet specific needs of deaf students.

EDSPC 736.50 Practicum: Hearing Impaired 30 hrs + 150-hr field placement, 2 cr. Prereq or coreq: COMSC 641. Supervised experiences in programs for deaf, hard-of-hearing, and language-impaired children.

EDSPC 736.51 Practicum: Hearing Impaired 30 hrs + 150-hr field placement, 2 cr. Prereq: EDSPC 730, 732; coreq: EDSPC 734. Supervised experiences in local programs for deaf, hard-of-hearing, and language-impaired children.

EDSPC 737 Total Communication: Sign Language 30 hrs, 2 cr. Prereq or coreq: EDSPC 700. Introduction to manual communication. Students acquire basic receptive and expressive competency in sign, dactylology, and signed English.

EDSPC 738.51, 738.52, 738.53 Independent Study in Education of Deaf Students 15-45 hrs, 1-3 cr. Independent study is designed to allow advanced students to pursue in greater depth a topic of particular interest within field of deaf education. Students must obtain approval of a faculty advisor in area of deaf education to take EDSPC 738.51. EDSPC 738.52 and 738.53 require approval of both advisor and chair.



EDSPC 740 Educational Implications of Visual Impairments Prereq or coreq: EDSPC 700, 710, 711. Characteristics, etiologies, and effects of blindness and visual impairments on educational functioning; techniques for identification, classification, and utilization of low vision aids.

EDSPC 741 Education and Rehabilitation of Individuals with Visual Impairments Prereq or coreq: EDSPC 700, 710, 711. Focus on service delivery systems, attitudes, advocacy, and resources relevant to learners with visual impairments. Effects of blindness and low vision on motor, cognitive, social and language development.

EDSPC 742 Curriculum for Learners with Visual Impairments Prereq or coreq: EDSPC 700, 710, 711. Principles, teaching techniques, and curriculum adaptations relevant to academic, social, vocational and life skill needs of learners with blindness and low vision, including those with additional impairments.

EDSPC 743 Communication Skills for Learners with Visual Impairments I 45 hrs, 3 cr. Prereq or coreq: EDSPC 740, 741. History of Braille; reading and writing of Grade 2 literary braille, mathematical, music and foreign language codes. Training in use of braille and slate and stylus.

EDSPC 744 Communication Skills for Learners with Visual Impairments II 45 hrs, 3 cr. Prereq: EDSPC 743. Training in operations of specially designed equipment and software for individuals with visual impairments; evaluation of instructional software, and methods used for teaching visually handicapped learners technological skills.

EDSPC 746.50 Practicum I: Visual Impairment 30 hrs + 150-hr field placement, 2 cr. Prereq or coreq: EDSPC 740, 741. Supervised field experience with learners with blindness and low vision in a variety of settings from early childhood to adulthood.

EDSPC 746.51 Practicum II: Visual Impairment 30 hrs + 150-hr field placement, 2 cr. Prereq or coreq: EDSPC 742, 743. Supervised field experience with learners with blindness and low vision in a variety of settings from early childhood to adulthood.

EDSPC 747 Principles of Orientation and Mobility for Teachers of Learners with Visual Impairments Prereq or coreq: EDSPC 740, 741. Study of systems of orientation and mobility for blind and low vision individuals; concept development and techniques for utilizing sensory information; pre-cane skills. Supervised practice.

EDSPC 748.51, 748.52, 748.53 Independent Study in Education of Blind and Visually Impaired Learners 15-45 hrs, 1-3 cr. Independent study is designed to allow advanced student to pursue in greater depth a topic of particular interest within field of education of visually handicapped. Students must obtain approval of faculty advisor in area of visual impairment to take EDSPC 748.51. EDSPC 748.52 and 748.53 require approval of both advisor and chair.

EDSPC 750 The Study of Behavior Disorders Prereq or coreq: EDSPC 700, 710, 711. Characteristics, etiology, and effects of behavior disorders in children and youth. Possible physiological antecedents of deviant behavior, with emphasis on associated attentional, learning, and social problems.

EDSPC 753 Methods for Teaching Students with Behavior Disorders Prereq or coreq: EDSPC 700, 710, 711. Educational diagnosis and remediation for educating and re-educating children and youth with behavior disorders. Specific and individualized remedial procedures; learning theory applied to intervention.

EDSPC 756 Behavior Disorders Practicum 45 hrs + 150-hr field placement, 3 cr. Prereq or coreq: EDSPC 753. Supervised field placement and weekly seminar to refine skills and integrate knowledge gained from other coursework. Understanding strengths, weaknesses, and styles and planning/implementing appropriate instruction for children and youth who demonstrate various types and degrees of behavior disorders.

EDSPC 760* Skills and Techniques for Rehabilitation Teaching I Prereq: EDSPC 740, 741. Methods and alternative techniques for rehabilitation teachers in the areas of techniques of daily living, sensory development, communication skills and personal management. Practice in assessment, goal-planning, and lesson preparation.

EDSPC 761* Skills and Techniques for Rehabilitation Teaching II Prereq: EDSPC 760. Methods and alternative instructional techniques for rehabilitation teachers in the areas of home management, food preparation, home mechanics, leisure activities and crafts. Uses of specialized evaluations such as college, job related assessments, and functional age appropriate activities for youth of transition age.

EDSPC 762 Functional Curriculum for Adolescents and Adults with Mild to Moderate Disabilities Prereq or coreq: EDSPC 700, 711, and either 750, 780, 790, or perm instr. Meeting the academic, emotional, and social needs of mild/moderately disabled adolescents in school and community. Math life skills, functional reading, recreational and independent living skills explored through applied, supervisory experiences.

EDSPC 763 Transition from School to Adult Living for Youth with Disabilities 2 hrs + conf, 3 cr. Prereq or coreq: EDSPC 700, 710, 711 or perm coord rehabilitation counseling program. Services, programs, and processes for easing transition of youth with disabilities from school to work, to post-secondary education, and to adult roles.

EDSPC 764* Principles of Vocational Rehabilitation and Independent Living Rehabilitation for Adults with Visual Impairments Prereq: EDSPC 740, 741. Job modification and placement options. Transition planning from education to adult services.

EDSPC 765* Internship I: Rehabilitation Teaching for Individuals with Visual Impairments 30 hrs, 2 cr. Prereq: EDSPC 760, 761. Supervised field experiences with individuals with visual impairments including those of transition age and with multiple impairments in a variety of settings.

EDSPC 766* Internship II: Rehabilitation Teaching for Individuals with Visual Impairments 30 hrs, 2 cr. Prereq: EDSPC 760, 761. Supervised field experiences with individuals with visual impairments including those of transition age and with multiple impairments in a variety of settings.

EDSPC 770 The Neuropsychology of Disability Prereq or coreq: EDSPC 700, 710, 711. Etiology and clinical manifestations of neuromuscular and neurological impairments. Emphasis on normative developmental sequences and their deviation. Issues in functional disability remediation.

EDSPC 774 Early Childhood Special Education: Models and Methods Prereq or coreq: EDSPC 700, 710, 711. Exploration of key elements of quality early childhood special education programs for "at risk" and disabled infants and young children. Assessment and instructional implications of several models. Sequences and methodologies for assessing and addressing young children's special educational needs.

EDSPC 777.51 Learning/Behavior Disorders Advanced Practicum: Elementary Focus 45 hrs + 150-hr field placement, 3 cr. Prereq or coreq: either EDSPC 750 and 753 or EDSPC 780 and 781. Supervised field placement and weekly seminar to refine skills and integrate knowledge gained from other coursework. Understanding strengths, weaknesses, and styles and planning/implementing appropriate instruction for elementary learning disabled, behaviorally disordered, or mildly/moderately mentally retarded students.

*Pending New York State Ed Dept approval.

EDSPC 777.52 Learning/Behavior Disorders Advanced Practicum: Secondary Focus 45 hrs + 150-hr field placement, 3 cr. Prereq or coreq: either EDSPC 750 and 753, or EDSPC 780 and 781. Supervised field placement and weekly seminar to refine skills and integrate knowledge gained from other coursework. Understanding strengths, weaknesses, and styles and planning/implementing appropriate instruction for learning disabled, behaviorally disordered, or mildly/moderately mentally retarded students in middle school and high school special education settings.

EDSPC 777.53 Practicum: Learning Disorders (Bilingual/Spanish) 40 hours + 160 hour field placement, 3 cr. Supervised field placement and weekly seminar to refine skills and integrate knowledge gained from other coursework. Understanding strengths, weaknesses and styles for planning/implementing appropriate instruction for bilingual (Spanish) students with learning disorders.

EDSPC 780 The Study of Learning Disorders Prereq or coreq: EDSPC 700, 710, 711. History of theory, practice, and current conceptualizations of children and youth with learning disorders (including learning disabilities and mild/moderate mental retardation). Theoretical issues, controversies, and current research are explored to provide useful frameworks for considering appropriate educational strategies.

EDSPC 781 Methods for Teaching Students with Learning Disorders: Part A Prereq or coreq: EDSPC 780 or 750. (Note: Students in the learning disorders concentration must take this course concurrently with EDSPC 783.) Principles, methods, and curriculum adaptations relevant to the academic and social needs of learning disabled and mildly/moderately mentally retarded children in self-contained classrooms, resource rooms, and supported mainstream settings. Analysis of educational needs, instructional sequencing, and specific remedial teaching techniques.

EDSPC 782 Methods for Teaching Students with Learning Disorders: Part B Prereq: EDSPC 781. (Note: Students in the learning disorders concentration must take this course in the semester immediately following EDSPC 781.) Advanced course in methodology for meeting academic and social needs of learning disabled and mildly/moderately mentally retarded children. Application of instructional principles, development of activities and materials for use one-to-one, in small groups, and in a variety of school settings. Development of on-going assessment strategies that take account of or compensate for learning and behavioral strengths and weaknesses. During class sessions, 1 hr of supervised clinical teaching.

EDSPC 783 Supervised Clinical Teaching Practicum: Learning Disorders 45 hrs + 20-hr afterschool tutoring, 3 cr. Prereq or coreq: EDSPC 700, 710, 780, 781. (Note: Students in the learning disorders concentration must take this course concurrently with EDSPC 781.) Supervised, intensive, one-to-one teaching of special needs students is part of class session. Focus on structuring and sequencing, appropriate application of special teaching methods, and on-going evaluation of and response to student's needs. Requires 20 hrs of additional tutoring outside of class time. Writing requirement: weekly teaching logs and plans, curriculum materials, and 2 major papers.

EDSPC 704 Curriculum Planning in Bilingual Special Education Special course in methodology for meeting academic and social needs of bilingual students with learning disorders whose home language is Spanish. Application of instructional principles, development of activities and strategies for effective learning. During class sessions one (1) hour of supervised clinical teaching with bilingual students with learning disorders whose home language is Spanish.

EDSPC 790 Foundations and Educational Implications of Severe/Multiple Disabilities Prereq or coreq: EDSPC 700. Characteristics, etiologies, and effects of multiple impairments including neurological and orthopedic impairments, autistic behaviors, mental retardation, and visual and auditory disabilities on development; alternate service delivery systems.

EDSPC 791 Curriculum Strategies for Teaching Learners with Severe/Multiple Disabilities Prereq: EDSPC 700, 709, 790. Emphasis on functional, age-appropriate community referenced instruction in domestic, community, vocational, and recreational domains. Development of instructional and individualized education programs.

EDSPC 792 Classroom Management for Effective Behavioral and Educational Programming of Learners with Severe/Multiple Disabilities Prereq: EDSPC 700, 709, 790. Focus on a variety of approaches for dealing with classroom management problems of learners with severe/multiple disabilities. Emphasis on application of behavior modification techniques used in school and community settings.

EDSPC 796.50 Practicum I: Severe/Multiple Disabilities 30 hrs + 180-hr field placement, 2 cr. Prereq: EDSPC 700; coreq: EDSPC 709, 790. Intensive

supervised field placement and weekly seminar to develop competencies focusing on implementation and behavior observation and measurement systems, and assessment techniques with learners at the teaching station. Educational implications of clinical and assessment data into functional age-appropriate objectives; educational report writing.

EDSPC 796.51 Practicum II: Severe/Multiple Disabilities 30 hrs + 180-hr field placement, 2 cr. Prereq: EDSPC 796.50. Intensive supervised field placement and weekly seminar to develop competencies focusing on selection and implementation of functional age-appropriate teaching strategies and activities in community based settings; providing safe and appropriate learning environments; conducting instructional programs with learners at the teaching station.

Health and Physical Education

The MEd in Physical Education: Teaching and Program Development and MEd in School Health Management are in the process of being decertified. There will be no further admission to these programs.

MS IN DANCE/MOVEMENT THERAPY

Coordinator Nana Koch, Brookdale Center, 425 East 25th St. room 811
phone 481-4347

The purpose of this program is to prepare mental health professionals who can apply their skills and knowledge of dance therapy and movement behavior in treatment, rehabilitation, and educational settings.

Requirements for Admission

1. Academic record consistent with the requirements for admission to graduate programs in the Division of Programs in Education at Hunter College (2.5 GPA). The Graduate Record Examination is not required.
2. 24 liberal arts credits, to include a minimum of 2 courses in psychology and one course in kinesiology or the equivalent.
3. Extensive and varied dance background. At least 18 cr of dance or its equivalent in studio classes with at least half the work in modern dance.
4. Satisfactory ratings by a selection committee on movement assessment and admission interview.
5. 2 letters of recommendation from appropriate professional or academic sources indicating dance competency and human service potential.
6. Satisfactory health status.

Requirements for the Degree

To complete the program the student must:

1. Complete on a full-time basis 60 cr of course work and field experience.
2. Demonstrate at an acceptable level through performance, participation, and examination, professional knowledge and competence in the practice of dance therapy.
3. Complete an individual project or research paper.
4. Complete a 700-hr internship at a public or private mental health facility.

The student's status and progress will be regularly assessed throughout the course of study. The College reserves the right to ask for withdrawal of any student who fails to perform satisfactorily.

Course Sequences

Fall Semester	Credits
DANTH 701 Dance Therapy I	4
DANTH 711 Motility and Human Development	3
DANTH 721 Movement Behavior I	3
DANTH 731 Movement Observation I	3
DANTH 780 Research Methods in Dance Therapy	3
Spring Semester	
DANTH 702 Dance Therapy II	4
DANTH 712 Clinical Issues in Dance Therapy I	3
DANTH 722 Movement Behavior II	3
DANTH 732 Movement Observation II	3
DANTH 751 Fieldwork and Seminar	3
Fall Semester	
DANTH 703 Dance Therapy III	4
DANTH 713 Clinical Issues in Dance Therapy II	3
DANTH 741 Project Seminar	3
DANTH 752 Internship in Dance Therapy I	3
DANTH 705 Group Work for Dance Therapists	3
Spring Semester	
DANTH 753 Internship in Dance Therapy II	9
Elective	3

COURSE LISTINGS

Each course 45 hrs, 3 cr, unless otherwise noted.

DANTH 701,702 Dance Therapy I & II Each 60 hrs, 4 cr. Application of theory to dance therapy practice with individuals and groups in clinical settings. Lectures and laboratory experiences.

DANTH 703 Dance Therapy III 60 hrs, 4 cr. Methods and techniques of dance therapy with special populations. Lectures and laboratory experiences.

DANTH 705 Group Work for Dance Therapists Discussion of goals, structure, process, roles and interaction patterns in patient groups, staff groups, community meetings, supervision groups, etc. Participation in a group.

DANTH 711 Motility and Human Development Study of motility and development from infancy to old age. Emphasis on observable behaviors of normal and atypical individuals during life cycle.

DANTH 712,713 Clinical Issues in Dance Therapy I & II Prereq: DANTH 711. Basic concepts of psychodynamics applied to psychosis, borderline states, and other disorders of children and adults. Lectures and case presentations.

DANTH 721,722 Movement Behavior I & II Review of major theoretical and research literature on developmental, expressive, and communicative movement.

DANTH 731,732 Movement Observation I & II Evaluation and analysis of individual movement style, group interaction, cultural differences, and movement characteristics of special populations.

DANTH 741 Project Seminar Preparation of acceptable final project under faculty supervision. Credit granted when project is accepted.

DANTH 751 Fieldwork and Seminar 100 hrs, 3 cr. Coreq: DANTH 712. Supervised observation and participation in clinical settings. Students become acquainted with varied patient populations, modes of practice, and institutional structures.

DANTH 752 Internship in Dance Therapy I 200 hrs, 3 cr. Coreq: DANTH 713. Supervised observation and practice in clinical settings. Concepts and principles of dance therapy are related to student's placement.

DANTH 753 Internship in Dance Therapy II 500 hrs, 9 cr. Skills refined through supervised clinical practice and continued education. Work with individuals and groups as part of treatment team.

DANTH 760 Special Topics Topics will be selected to meet current needs of field placements and to present specific areas of knowledge in greater depth.

DANTH 770 Independent Study in Dance Therapy 1-3 cr: 15 hrs 1 cr, 30 hrs 2 cr, 45 hrs 3 cr.

DANTH 780 Research Methods in Dance Therapy Evaluation of existing research. Identification of research problems and analysis of strategies for dance therapy research.

Agency Affiliations for Fieldwork and Internship Placements

Alhambra Day Treatment Center
Bellevue Hospital
Bronx Municipal Hospital Center
Bronx Psychiatric Center
Creedmoor Psychiatric Center
Elizabeth General Medical Center
Gracie Square Hospital
Guidance Center of New Rochelle
Holly Center School
Infants Home of Brooklyn
Isabella Nursing Home
The Lafayette Center
Little Village School
Maimonides Community Mental Health
Manhattan Psychiatric Center
Mount Sinai Hospital
New York University Co-op Care Education Center
Payne Whitney Clinic
Post Graduate Center
P.S. 224 at P.S. 205
P.S. 226 at the Manhattan School
St. Joseph's Hospital Medical Center
St. Luke's Hospital
St. Vincent's Hospital
School for Language & Communication Disorders
South Beach Psychiatric Center
Woodhull Medical Center
Young Adult Institute

MS IN DANCE/MOVEMENT THERAPY & MSW IN SOCIAL WORK—DUAL DEGREE PROGRAM

The purpose of the dual master's degree program in dance therapy and social work is to educate new mental health professionals, skilled in both modalities, who can provide a variety of services in a changing system of health care delivery. The curriculum is designed to incorporate the theoretical and practical aspects of each modality into a unified and cohesive approach to teaching individuals, families, and groups in need of service.

Requirements for Admission

Students must meet the requirements for the specific degrees of each field.*

Requirements for the Degree

To complete the program the student must:

1. Complete 80 cr of required and elective work in dance therapy and social work.**
2. Meet the degree requirements of both programs.

*Students without the appropriate undergraduate major may be admitted conditionally.

**For a complete list of social work courses and field instruction centers, consult the School of Social Work section of this catalogue.



Course Sequences

Fall Semester

		Credits
DANTH 701	Dance Therapy I	4
SSW 711	Human Behavior and the Social Environment I	3
SSW 701	Social Welfare Organization	3
DANTH 731	Movement Observation I	3
DANTH 721	Movement Behavior I	3

Spring Semester

DANTH 702	Dance Therapy II	4
SSW 712	Human Behavior and the Social Environment II	3
DANTH 722	Movement Behavior II	3
DANTH 732	Movement Observation II	3

Fall Semester

SSW 713	Human Behavior and the Social Environment III	3
SSW 719	Foundations of Social Work	2
SSW 731	Group Work I	3
SSW 760.50	Dance Therapy—Social Work Field Instruction	3

DANTH 752	Internship Seminar I	3
DANTH 705	Working with Groups	audit-optional

Spring Semester

SSW 702	Social Policy	1
SSW 732	Group Work II	3
SSW 761.50	Dance Therapy—Social Work Field Instruction	3
DANTH 751	Fieldwork and Seminar	3

Fall Semester

DANTH 703	Dance Therapy III	4
SSW 733	Group Work III	3
SSW 763	Dance Therapy—Social Work Field Instruction	5
	Elective	1
SSW 751	Social Work Research I	3

Spring Semester

SSW 790.51	Professional Seminar in Dance Therapy and Social Work	3
SSW 764	Dance Therapy Social Work Field Instruction	5
SSW 780	Administration of Social Agencies	3

English

Chair Allan Brick, West Building room 1212 phone 772-5070
Advisor Marlies K. Danziger, West Building room 1201 phone 772-4674

FACULTY

Meena Alexander, Professor; PhD, Nottingham; Romanticism, Women's Studies, Third World Literature
Richard Barickman, Associate Professor; PhD, Yale; 19th-Century Novel
Jane Benardete, Professor; PhD, Radcliffe; American Literature
Fred W. Bornhauser, Associate Professor; PhD, Cornell; 20th-Century Poetry
Richard Brett, Assistant Professor; PhD, Cornell; Renaissance Literature
Allan Brick, Associate Professor and Chair; PhD, Yale; Victorian Prose and Poetry
Sybil Brinberg, Associate Professor; PhD, Ohio State; Modern Drama
Marlies K. Danziger, Professor; PhD, Yale; Augustan Age and 18th-Century Novel
Louise De Salvo, Professor; PhD, NYU; Modern British Fiction and Women's Studies
David Gordon, Professor; PhD, Yale; Modern Literature
Karen Greenberg, Associate Professor; PhD, NYU; Rhetoric and Linguistics
Alan Holder, Professor; PhD, Columbia; American Poetry
John Holm, Professor; PhD, University of London; Linguistics
Floyd Horowitz, Professor; PhD, Iowa; American 19th Century, Henry James
Mildred C. Kuner, Professor; PhD, Columbia; British and American Drama
Eve Leoff, Associate Professor; PhD, Columbia; Romantic Poetry
Estella Majozo, Associate Professor; PhD, Iowa; African-American Literature, Creative Writing
Harvey A. Minkoff, Professor; PhD, CUNY; Linguistics
Charles Persky, Associate Professor; PhD, Harvard; 18th-Century English Prose and Poetry
Gerald M. Pinciss, Professor; PhD, Columbia; Shakespeare and Renaissance Drama
B. J. Rahn, Associate Professor; PhD, Columbia; 18th-Century Literature
Ann Raimos, Professor; MA, Cornell; Rhetoric and Composition
Philip Roth, Visiting Distinguished Professor; MA, Chicago; 20th-Century Fiction
William Pitt Root, Professor; MFA, North Carolina; Creative Writing
Neal Tolchin, Associate Professor; PhD, Rutgers; American Literature and Ethnic Literature
Sylvia Tomasch, Associate Professor; PhD, CUNY; Chaucer and Medieval Literature
Barbara Webb, Associate Professor; PhD, NYU; African-American, African-Caribbean, and African Literature
James D. Williams, Professor; PhD, NYU; American Fiction
David Winn, Assistant Professor; MA, Colorado; Modern American Fiction

MASTER OF ARTS

The MA program in English and American literature affords opportunities for both professional advancement and personal development. It may be taken as a terminal course of study or as preparation for doctoral work in English or other humanistic fields. Apart from the usual lecture-discussion classes, the program offers a reading tutorial, and the opportunity of writing a research paper or essay under the guidance of a senior faculty member.

Departmental Requirements for Admission

In addition to the general requirements for admission, the following departmental requirements must be met: 18 credits of undergraduate courses in English, exclusive of courses in journalism and writing.

Students who have done their major work in English in non-English-speaking countries are usually not eligible for admission to graduate courses in English without additional undergraduate preparation in an American college or university.

Departmental Requirements for the Degree

One full year of satisfactory work in English or the completion of the same in not more than 4 years.

Courses Each candidate must complete an approved program of study of at least 30 credits, which must include ENGL 700 Master's Essay. Courses other than those offered in the Department of English may be credited toward the 30 credits with the approval of the graduate advisor but they may in no case exceed 6 credits. Six credits of relevant graduate work done at another institution may be credited when approved by the graduate advisor.

Foreign Language The candidate must demonstrate a reading knowledge of French, German, or Latin. Another language may be substituted only with the approval of the graduate advisor.

Comprehensive Examination The candidate must also pass a written comprehensive examination in English and American literature.

Master's Essay The candidate must submit a satisfactory master's essay, incorporating original work and research, which will be approved by 2 appropriate members of the faculty. Two copies prepared for binding are required.

Non-matriculants After applicants have been accepted by Hunter College as non-matriculant students, their records must be evaluated, preferably prior to registration, by the graduate advisor before they can be admitted to English department courses. Acceptance by Hunter College does not guarantee acceptance by the Department of English. Not more than 9 credits may be transferred from non-matriculated to matriculated status.

DOCTOR OF PHILOSOPHY

The PhD program in English is based at the City University Graduate School and University Center. See *Bulletin of the Graduate School* for a description of the PhD program and the complete list of courses.

PROGRAM FOR THE PREPARATION OF SECONDARY SCHOOL TEACHERS OF ENGLISH

Admission This Teacher Education Program (TEP) is not for individuals who already have provisional certification in the teaching of English. Provisionally certified teachers should apply for the MA in English. (With the approval of the English Department Advisor, such students may take 3 or 6 cr of course work in advanced courses from the secondary education sequence.)

Students must have earned 21 cr in courses acceptable to the department, consisting of 18 cr of advanced courses in literature (including 3 cr of world literature) and 3 cr of intermediate or advanced writing (a senior essay earning 3 cr in English may be counted as advanced writing). A cumulative GPA of 2.7 or better and an index of 3.0 in English courses are required, as is one year of college study of a language other than English.

Students who have a 3.0 or better index in English courses but whose cumulative GPA index is below 2.7 may be considered for admission to non-matriculant status. The student so admitted will be directed to take a specific sequence of courses in education totaling 9 cr, must achieve an index of 3.0 or better in these 9 credits, and must then re-apply for admission as a matriculant.

Graduate Course Requirement in English for Secondary School Teachers (21-24 crs)

Literature 15 cr in literature courses given by the English Department; of these, 3 cr must be in Shakespeare, 3 cr in literature with a multicultural/minority emphasis, and 3-6 cr in American literature (6 cr of American literature are required, but 3 cr of undergraduate course work in American literature may be applied to this requirement; 3 cr from an appropriate graduate course in literature with a multicultural/minority emphasis may also be applied to this requirement)

Linguistics 3 cr in the structure of modern English (ENGL 607)

Rhetoric 3 cr in rhetoric and composition (ENGL 615)

Spoken Language 3 cr in spoken communication (e.g., THC 776 Creative Dramatics, THC 777 Theatre for Youth, THC 778 Sociodrama; an equivalent undergraduate course may be used to fulfill this requirement)

Education 15-24 cr (See Education Section, MA—Secondary Education)

Comprehensive Examination The culminating experience for students in the Teacher Education Program in English is a comprehensive examination. This *required* examination has two parts. Part I is an essay based upon the required coursework in education. Part II, taken during the last semester of study in English, is also an essay. In this part, students are asked to synthesize their knowledge of literature by writing about several works (poems, plays, novels, etc.) of special interest to them and selected in consultation with the graduate advisor.

COURSE LISTINGS

Each course 45 hrs, including conferences, 3 cr, unless otherwise noted.

Teacher Education

ENGL 505 Structure of the English Language Nature of language; structure of Modern English, problems of usage. Not credited toward the English MA.

ENGL 607 English Linguistics Structure of Modern English, with emphasis on analytical method and pedagogical implications. Survey of phonology, morphology, syntax, and dialectal variation.

ENGL 615 Rhetoric and Composition Rhetorical theory; analysis of selected masterpieces of prose; practice in writing a variety of prose forms.

ENGL 681 Reading Credit 1-3 cr. Course of readings designed according to student's interests and needs. Work is directed by member of department.

English and American Literature: General

ENGL 700 Master's Essay Individual research under supervision. Required of all candidates for MA degree in English and American literature.

ENGL 702 Special Studies in English, American, and Comparative Literature: Seminar Intensive study of a major figure, type, or trend. Subject will vary from semester to semester.

ENGL 754 Selected Studies in Work of Major American Writers Subject will vary from semester to semester.

ENGL 775 Selected Studies in English and American Literature Topics to be announced.

ENGL 776 Selected Studies in Multicultural/Minority Literature Topics to be announced.

ENGL 781 Reading Credit Course of readings designed according to student's interests and needs. Work is directed by member of department.

ENGL 793 Studies in Literary Criticism Literary theory as explored by major critics.

Medieval Literature

ENGL 705 Chaucer: *The Canterbury Tales* Critical study of *The Canterbury Tales*.

ENGL 706 Chaucer's Work Exclusive of *The Canterbury Tales* Emphasis on the *Book of the Duchess*, *The House of Fame*, *The Parliament of Fowls*, *Troilus and Criseyde*, *The Legend of Good Women*.

ENGL 708 Medieval Literature in England from 13th to 15th Century Selected readings include lyric poetry, romances, allegory, prose, and works of the Pearl-Poet, Langland, Gower, and Malory.

Renaissance Literature

ENGL 712 Spenser Study of *The Faerie Queene* with special emphasis on recent criticism and theories of allegory.

ENGL 713 Shakespeare: Comedy Detailed study of selected plays with special consideration of a variety of critical techniques and approaches.

ENGL 714 Shakespeare: Tragedy Detailed study of selected plays with special consideration of a variety of critical techniques and approaches.

ENGL 716 Renaissance Drama Exclusive of Shakespeare The predecessors, contemporaries, and successors of Shakespeare up to the closing of the public theatres in 1642.

ENGL 720 High Renaissance in England Study of major genres and forms of English Renaissance poetry, with emphasis on works by Shakespeare, Spenser, Sidney, Marlowe, and Donne.

Seventeenth-Century Literature

ENGL 717 The Drama of the 17th and 18th Centuries Comic and tragic drama as exemplified by such playwrights as Etherege, Wycherley, Dryden, Congreve, Goldsmith, and Sheridan.

ENGL 722 Milton: Lyric and Dramatic Poems, Selected Prose Study of development of the poet.

ENGL 723 Milton: *Paradise Lost* and *Paradise Regained* A critical study of Milton's epics.

ENGL 724 Earlier 17th-Century Literature Readings in Jonson and Donne; Herbert and Crashaw; Herrick and the Cavalier Poets; Bacon and Browne; Burton and Walton; the writers of "Characters."

ENGL 725 Later 17th-Century Literature Readings in Dryden and Marvell; Butler; Denham and Cowley; Vaughan and Traherne; Evelyn and Pepys; Bunyan; Hobbes and Locke; and religious prose writers.

Eighteenth-Century Literature

ENGL 731 Augustan Age Reading and analysis of major works by Dryden, Swift, Pope, Addison, Steele, Gay.

ENGL 732 Age of Johnson Study of Dr. Johnson and his circle, and of growth of pre-romanticism.

ENGL 733 The Age of Enlightenment Selected works by such authors as Swift, Pope, Johnson, Diderot, Voltaire, Rousseau, Lessing, Goethe, and Schiller.

ENGL 771 Studies in the 18th-Century Novel Selected novels by such writers as Defoe, Le Sage, Prévost, Richardson, Fielding, Sterne, Diderot, Rousseau, Walpole, and Goethe.

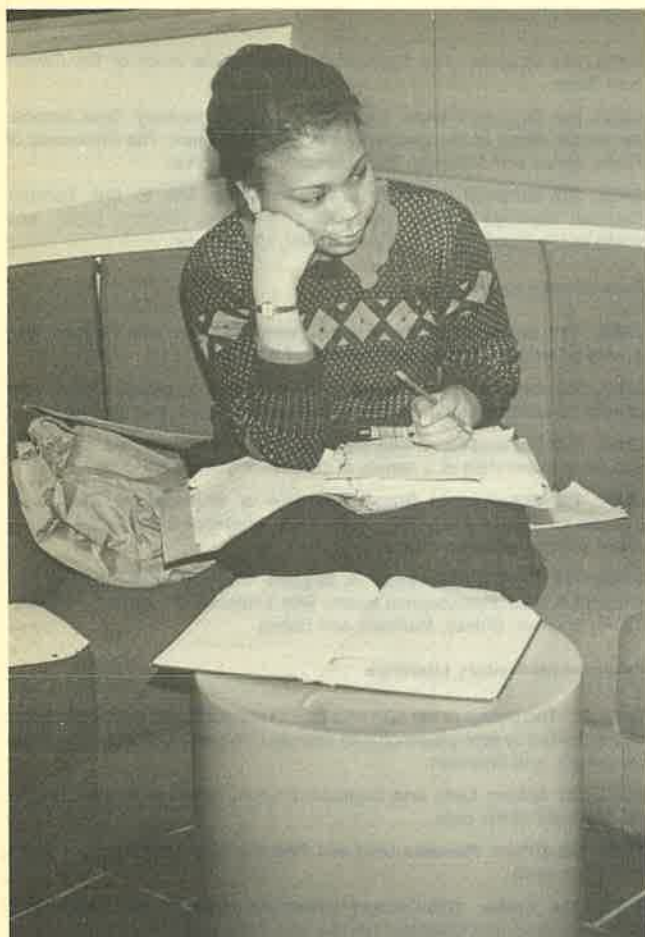
Nineteenth-Century Literature

ENGL 740 Romanticism Cultural revolution of 18th and 19th centuries studied in significant British and Continental European works.

ENGL 741 The Romantic Poets Major tendencies of the period as exemplified by Wordsworth, Coleridge, Byron, Shelley, and Keats.

ENGL 742 Victorian Poets Major tendencies of the period as exemplified by such poets as Tennyson, Robert and Elizabeth Barrett Browning, Arnold, Christina and Dante Gabriel Rossetti, Swinburne, and Hopkins.

ENGL 743 Victorian Prose, 1832-1890 Major tendencies of the period as exemplified in works of Carlyle, Ruskin, Arnold, Eliot, Dickens, Morris, and Pater.



ENGL 772 Studies in the 19th-Century Novel Selected novels by such authors as Jane Austen, George Eliot, Trollope, Thackeray, Dickens, Stendhal, Balzac, Flaubert, and James.

Modern British Literature

ENGL 755 Modern British Literature from 1890-1914 Studies centering in work of such writers as Shaw, Hardy, Yeats, and Conrad.

ENGL 756 Modern British Literature from 1914 to the Present Studies centering in work of such writers as Joyce, Lawrence, Eliot, and Auden.

American Literature

ENGL 748 American Literature: Colonial and Federal Periods A study of the period from 1607 to 1810, with emphasis on the effect of the American experience on European ideas.

ENGL 749 American Prose to 1860 Selected works by such authors as Emerson, Thoreau, Hawthorne, Poe, and Melville.

ENGL 750 American Prose, 1860-1914 Study of selected works by such authors as Howells, Twain, James, Crane, Dreiser, and Adams.

ENGL 751 American Prose, 1914 to the Present Writers ranging from Hemingway, Fitzgerald, and Faulkner to the contemporaries.

ENGL 752 American Poets of the 19th Century Studies in a selected number of representative poets, among them Poe, Emerson, Whitman, and Emily Dickinson.

ENGL 753 American Poets of the 20th Century Studies in a selected number of major poets, including Frost, Eliot, and Stevens.

Not all courses are offered every term. Please consult the department.

Geology and Geography

Chair Jeffrey P. Osleeb, North Building room 1006
phone 772-5265/5266

Graduate Advisor (Geography) Sara McLafferty, North Building room 1006 phone 772-5265/5224

FACULTY

Sean Ahearn, Associate Professor; PhD, Wisconsin-Madison; Geographical Information Systems, Remote Sensing, Digital Image Processing, Natural Resources
Keith Clarke, Professor; PhD, Michigan; Cartography, Analytical Methods, Geographic Information Systems, Field Mapping
Saul B. Cohen, University Professor; PhD, Harvard; Political Geography, Middle East, Geography and Psychology, International Development, Geography and Education
Kathleen Crane, Professor; PhD, Scripps Institute; Geophysics, Marine Geology, Computer Applications, Global Change
Victor Goldsmith, Professor; PhD, Massachusetts; Coastal Processes, Environmental Policy, Metropolitan Coasts, Geomorphology, Geological Oceanography
Charles Heatwole, Professor; PhD, Michigan State; Cultural Geography, Recreation Geography, Geography of Religion, Africa
Florence Lansana, Assistant Professor; PhD, Kent State; Environmental Perception, Solid Waste Management, Cultural Ecology
Richard Liebling, Associate Professor; PhD, Columbia; Clay Mineralogy, Petrology, Geomorphology
Sara McLafferty, Associate Professor; PhD, Iowa; Economic Geography Location Theory, Medical Geography
Jeffrey P. Osleeb, Professor and Chair; PhD, SUNY Buffalo; Economic Geography, Location Theory; Urban Geography, Transportation
Joaquin Rodriguez, Professor; PhD, Indiana; Invertebrate Paleobiology, Paleochronology and Paleogeology, Stratigraphy, Computer Applications
Horst Scherp, Associate Professor; PhD, Goettingen; Photogeology, Structural Geology, Map Interpretation, Petroleum Exploration

MASTER OF ARTS

The Department of Geology and Geography offers a master of arts in geography with emphasis on analytical geography. The program focuses on geographic skills, such as computer cartography, geographical information systems, spatial analysis, remote sensing, and quantitative modeling, as they are applied to economic, physical, and regional geography and to environmental policy issues. It is designed for students and professionals with backgrounds in engineering, computer science, social science, as well as traditional geography.

An MA in geography from Hunter can lead to employment with corporations, local and national governments, international agencies, consultants, and computer companies. The New York area is a center of corporate headquarters in the United States, and Hunter is close to this activity. Students wishing to continue graduate work at the PhD level will find themselves more than adequately prepared by this program, and well equipped with the research and technical skills necessary for advanced research.

The Spatial Analysis and Remote Sensing (SPARS) Laboratory features a local area network (LAN) anchored by a Sun Microsystems 4/690MP Fileserver with over 25-GByte of on-line storage. There are over 40 Sun SPARCstations and eight 386/486 PCs connected to the network. Output devices include a Tektronix color PostScript printer, a 4K-x-4K digital film recorder, a 36-inch drum plotter and five monochrome laser printers. The department's LAN is connected to INTERNET via a high-speed T3 connection.

Software holdings include UNIX and DOS versions of ERDAS and ARC/INFO, MapInfo, TransCad, GISPlus, Sun PC, FrameMaker (a desktop publishing package) and UNIX and DOS ver-

sions of WordPerfect. Cartography classes are supported by various facilities and labs, including a cartographic dark room with a vertical process camera, automatic film processor, and vacuum frame; and a teaching computer cartographic laboratory equipped with PCs, digitizers, graphics printers and plotters. Cartographic research is supported by a Zeta 824 pen plotter, a color PostScript printer, a large format ALTEK tablet, and various software packages including AUTOCAD and software developed at the College. Large amounts of digital cartographic data are available.

The GeoSeminar Series, an integral part of the graduate program, allows students to meet and hear noted American and international scholars with expertise in various areas of geography, geology and cartography. The Cartography Subseries is the focus of New York area cartophiles.

Admissions Requirements

Admissions procedures are as established by the Hunter College Office of Graduate Admissions. Candidates must have a BA or BS or equivalent, an undergraduate GPA of at least a B minus, with a B in the major, and (normally) the completion of at least 18 credit hours in geography. All students are required to take the Graduate Record Examination. Foreign students whose first language is not English must take the Test of English as a Foreign Language. Two letters of recommendation are required.

Requirements for the Degree

The master of arts consists of 30 graduate credits, chosen from 3 types of courses: GEOG, PGEOG, and GTECH. GEOG classes cover systematic and regional geography, while PGEOG classes cover physical geography. GTECH courses cover geographic methods and techniques, and are divided into quantitative methods, remote sensing, cartography, and computer applications. Classes vary in their structure from laboratory classes to lecture/discussions and seminars.

Students must complete a minimum of 30 credits in one of the following options:

- A. Thesis Option:** A minimum of 30 cr consisting of:
1. GEOG 701 and GEOG 702.
 2. From 1 to 6 cr of GEOG 799 leading to a thesis approved by the student's graduate advisors.
 3. A minimum of 14 additional cr selected from GEOG, GTECH, and PGEOG courses.
 4. A maximum of 6 cr selected from courses other than GEOG, GTECH, or PGEOG.
 5. A completed thesis.
- B. Examination Option:** A minimum of 30 graduate cr consisting of:
1. GEOG 701 and GEOG 702.
 2. A minimum of 20 additional cr selected from GEOG, GTECH, and PGEOG course offerings exclusive of GEOG 799.
 3. A maximum of 6 cr selected from courses other than GEOG, GTECH, and PGEOG.
 4. A passing grade on a comprehensive examination conducted by the student's graduate committee.
 5. A research paper of publishable quality prepared in the format of a recognized journal.

Although both options may prepare students for additional graduate work, the Thesis Option is recommended for those who might wish to pursue the PhD in geography or an allied field. The Examination Option is recommended for students seeking a terminal MA.

Language Requirement A foreign language is not required for the MA in geography. However, students interested in regional studies or further graduate work are strongly encouraged to master a foreign language. Students emphasizing technical skills are strongly encouraged to master one or more computer programming languages.

Full-time students should be able to complete the master's degree within 3 semesters. To accommodate part-time and working students, many courses are offered in the evening.

Assistantships

A limited number of teaching and research assistantships are available from the department.

DOCTOR OF PHILOSOPHY

The Department of Geology and Geography participates in the PhD Program in Earth and Environmental Sciences based at the CUNY Graduate School and University Center. Although the primary focus of this program is general geology, it also admits students from cognate fields, including geography, for graduate work in such areas as remote sensing, computer cartography, and quantitative methods. Students in this program may select Hunter College as their "home" college.

For application forms and further information, write to the Executive Officer, PhD Program in Earth and Environmental Sciences, The Graduate School and University Center, The City University of New York, 33 West 42nd St, New York, NY 10036.

The department has proposed a PhD program in geography specializing in metropolitan issues, cartography/remote sensing/geographic information systems, and behavioral/social geography. When authorized by CUNY, it will emphasize the development and use of analytical geographical methods and their applications to pressing metropolitan problems. For more information contact the geography graduate advisor.

TEACHER EDUCATION PROGRAM (TEP)*

On request, the Department of Geology and Geography may offer advanced courses for (a) teachers of secondary school subjects, (b) elementary school teachers seeking to extend their undergraduate major, and (c) other teachers with particular needs in their area of specialization. When combined with professional education (see Education section), the courses may lead to an MA in secondary education (earth science and social studies).

COURSE LISTINGS

Each course 45 hrs, including conferences, 3 cr, unless otherwise noted. Check with the department during middle of prior term for tentative course schedule including list of special topics.

GEOG 701 Geographic Thought and Theory Offered E/Fa. Identification of research trends; major schools of thought; scientific method and exceptionalism; reviews of current research.

GEOG 702 Research Topics in Geography Offered E/Fa. Introduction to central research themes in geography and the current research being undertaken by department faculty.

GEOG 703 Location Theory and Spatial Analysis Prereq: GEOG 221 or 341 or equiv. Offered Sp. Spatial interaction; diffusion; development; decision making. Methods of spatial analysis; spatial modeling.

*This program is undergoing revision. Please consult with the Office of Educational Services, room 1000 West Building, for details.

GEOG 705 Cultural and Social Geography Prereq: GEOG 347 and 341 or equiv or perm instr. Review of recent work in cultural and social geography; emphasis on literature, critiques.

GEOG 705.52 Geopolitical Equilibrium Offered Sp. Developmental approach to the interplay of geography and international politics.

GEOG 705.55 Medical Geography Offered Sp '95. Analysis of the distribution and spread of disease; methods of disease mapping; siting of health services.

GEOG 707 Geography of Recreation Spatial aspects of leisure activity; human spatial behavior; legal aspects; emphasis on urban recreation.

GEOG 709 Geography of Selected World Regions Intensive examination of physical and social geography of specific world regions. (Each semester one or two regions will be covered. Field courses may be offered during inter-session periods.)

GEOG 711 Environmental Conservation Offered Fa. Interrelationship of natural systems; environmental crisis; environmental movement; specific problem areas.

GEOG 791, 792, 793 Independent Research in Geography 1, 2, or 3 cr. Prereq: perm instr and grad advisor. Intensive individual research in geography under supervision of a member of the graduate faculty. May be repeated for a maximum of 6 credits with permission of the graduate advisor.

GEOG 799 Thesis Research in Geography 1-6 cr. Prereq: GEOG 701 and perm dept. Offered every semester. Open to students electing the thesis option only. May be repeated for credit.

GTECH 701 Quantitative Methods I Prereq: perm instr. Offered Fa. Use of statistical methods for geographic problems; probability, sampling, hypothesis testing, correlation; lab exercises.

GTECH 702 Quantitative Methods II 75 hrs (3 lec, 2 lab weekly), 4 cr. Prereq: GTECH 701 or equiv or perm instr. Offered Sp. Multivariate analysis of spatial data; prediction, analysis and explanation of spatial and environmental phenomena; statistical software packages; lab exercises.

GTECH 703 Special Topics in Quantitative Methods 45-75 hrs, 2-4 cr. Prereq: GTECH 701 and 702 or equiv and perm dept. Advanced work on topics related to quantitative methods. Content and lecture/lab mix to vary with instructor.

GTECH 704 Seminar in Spatial Modeling Prereq: GTECH 701 or equiv or perm instr. Development of advanced spatial models; in-depth consideration of specific topics; statistical modeling, mathematical modeling, computer modeling, and simulation.

GTECH 711 Principles of Photogrammetry and Air Photo Interpretation 90 hrs (2 lec, 4 lab weekly), 4 cr. Offered Fa '94. Use and interpretation of air photos; agriculture, forestry, urbanization, planning; lab exercises.

GTECH 712 Principles of Remote Sensing 105 hrs (3 lec, 4 lab weekly), 5 cr. Offered Sp. Fundamentals of remote sensing; theory and techniques; applications, image analysis systems.

GTECH 713 Digital Image Processing 90 hrs (2 lec, 4 lab weekly), 4 cr. Prereq: GTECH 712, multivariate stat, elem linear algebra. Offered Fa. Quantitative processing of digital imagery; enhancement, information extraction, classification; algorithms, registration, rectification; lab exercises.

GTECH 714 Special Topics in Remote Sensing 45-90 hrs, 2-4 cr. Advanced work on topics in remote sensing; may be repeated for credit; lab work. Prereq and lecture/lab mix to vary with topic.

GTECH 715 Seminar in Remote Sensing Prereq: GTECH 712; GTECH 713 recommended. Examination and discussion of current published research work in remote sensing. Topic to vary with instructor and student interest.

GTECH 721 Advanced Cartography 105 hrs (1 lec, 6 lab weekly), 4 cr. Prereq: PGEOG 180 or equiv. Acquisition of professional-level skills in manual cartography; production and photographic methods; scribing; color separations; use of automated techniques; lab exercises.

GTECH 722 Automated Cartography 75 hrs (1 lec, 4 lab weekly), 3 cr. Offered Sp. Computer and other automated applications; theory and algorithms; production of computer-generated maps; lab exercises.

GTECH 723 Seminar in Cartographic Research Prereq: GTECH 721, 722, or 731. Offered Fa. Development of cartographic research methods by participation in research projects; reviews of current cartographic literature; library research techniques.

GTECH 731 Computer Programming for Geographic Applications 90 hrs (2 lec, 4 lab weekly). 4 cr. Offered Sp. Programming methods specific to geographic and cartographic applications; programming assignments; graphics. A programming language helpful but not required.

GTECH 732 Introduction to Geographic Information Systems Offered Fa. Prereq: GEOG 701 and 702 and perm. grad advisor. An introduction to the principles of geographic information systems (GIS) including an overview of data structures, data types, methods of data analysis, and cartographic modeling. Comparison of GIS software packages. Laboratory exercises.

GTECH 732.51 Advanced G.I.S. Offered Sp. Prereq: GTECH 732 and perm. instr. Development and utilization of a GIS to solve a problem.

PGEOG 701 Special Topics in Physical Geography 45-75 hrs, 2-4 cr. Examination of one physical geography topic such as hydrology, climatology, soils; lab exercises.

PGEOG 701.51 Field Mapping Offered June intersession. Surveying; field data collection; record keeping; data analysis. Fee for transportation, accommodations, food allowance required.

PGEOG 701.52 Hydrology Storage and flux of water; supply, quality, and management problems.

PGEOG 701.54 Digital Terrain Modeling Use of computer programs to portray the Earth's surface in 3-D; manipulation of data; problem solving.

PGEOG 702 Seminar in Physical Geography Team research in specific topic area of physical geography; individual research projects; may be repeated for credit. Topic and prereq to vary with instr and student interest.

PGEOG 703 Coastal Dynamics Offered Fa. Quantitative focus on the dynamic processing affecting the coast and the resulting varied geomorphology. Map exercises; field work.

PGEOG 704 Urban & Metropolitan Coasts Offered Sp. Physical and quantitative rationale for planning coastal constructions with emphasis on urban coasts.

TEP courses offered only if student demand is sufficient (unless otherwise noted)

GEOG 501 Principles of Geography (offered every semester)

GEOG 611 Geographic Interpretation of World Affairs

GEOG 611.51 Geography of the Middle East & North Africa

GEOG 611.55 World Regions

GEOG 613 Conservation of Natural Resources (offered Fa)

GEOG 621-625 Geography of Major Regions (one of the following offered every semester)

GEOG 621 Geography of the United States

GEOG 621.51 Geography of New York State

GEOG 622 Geography of South America

GEOG 622.53 Geography of Middle America

GEOG 623 Geography of Africa

GEOG 624 Geography of East Asia

GEOG 625 Geography of Europe

GEOG 630 Geography of the New York Metropolitan Area

German

Chair Dorothy James, West Building room 1405 phone 772-4980

Some members of the Hunter College Department of German participate in the PhD program in Germanic languages and literatures based at the City University Graduate School and University Center.

Information concerning degree requirements, courses, etc., may be obtained from Professor John Gearey, Executive Officer, PhD Program in Germanic Languages and Literatures, CUNY Graduate School and University Center, 33 West 42nd Street, New York, NY 10036. Phone 642-2304.

Health Sciences

The Hunter College School of Health Sciences
Brookdale Health Science Center
425 East 25th Street, New York, NY 10010

Dean Everlena M. Holmes

FACULTY

Marilyn Auerbach, Assistant Professor, Community Health Education; DrPH, Columbia; Women's Issues, Chronic Illness
Deborah Blocker, Assistant Professor, Nutrition; ScD, Harvard; Nutritional Epidemiology
Jack Caravanos, Assistant Professor, Environmental Health Science; DrPH, Columbia; Environmental Assessments, Hazardous Wastes
Lynne Clark, Associate Professor, Communication Sciences; PhD, CUNY; Gerontology, Adult Language Disorders, Neuroanatomy
Dorothy J. Cunningham, Professor, Environmental Health Science; PhD, Yale; Physiology, Thermoregulation
Florence Edelman, Associate Professor, Communication Sciences; PhD, NYU; Orofacial Disorders of Speech, Neuromuscular and Organic Disorders
Paula Fishman, Assistant Professor, Nutrition; EdD, Columbia; Education, Nutrition & Foods
Nicholas Freudenberg, Professor, Community Health Education; DrPH, Columbia; Health Policy, Environmental Health, Community Action
Eleanor Gilpatrick, Professor, Community Health Education; PhD, Cornell; Labor Economics, Job Analysis & Curriculum Design, Health Professions Grant Writing, Health Issues, Institutional Research, Writing
Barbara Gordon, Associate Professor, Nutrition; PhD, Columbia; Biochemistry, Physiology, Pregnancy
Everlena M. Holmes, Professor and Dean, Community Health Education; EdD, Virginia Polytechnic Institute; Health Career Education for Minority Students, Allied Health Education, Medical Record Administration
David Kotelchuck, Associate Professor, Environmental Health Science; PhD, Cornell; MPH, Harvard; Occupational Health, Industrial Hygiene, Epidemiology
Khursheed Navder, Assistant Professor, Nutrition; PhD, Kansas; Lipid Metabolism
Evelyn Pollack, Lecturer, Communication Sciences; MA, NYU; Phonological Disorders, Clinical Speech-Language Pathology
Beth Richie, Assistant Professor, Community Health Education; PhD, CUNY; Community Organization, Women's Health, Family and Sexual Violence
Janet R. Schoepflin, Assistant Professor, Communication Sciences; MA, Temple University
Russell L. Sergeant, Associate Professor, Communication Sciences; PhD, Ohio State; Speech Science, Psychoacoustics, Research Methods
Carol R. Silverman, Associate Professor, Communication Sciences; PhD, NYU; Diagnostic Rehabilitative Audiology
Ida Susser, Professor, Community Health Education; PhD, Columbia; Medical & Urban Anthropology, International Health
Stephen Zoloth, Professor, Community Health Education; PhD, Pennsylvania; Occupational & Environmental Epidemiology

The Hunter College School of Health Sciences, a specialized unit of The City University of New York, offers graduate programs in health-related professions. The School is housed at the Brookdale Health Science Center, located in close proximity to many of New York's major health care facilities. The health professions complex at East 25th Street provides graduate students with fully equipped laboratories, computer access, a speech and hearing clinic, and a library, as well as recreational facilities, a cafeteria, and an on-site dormitory.

The graduate programs offered at the Hunter College School of Health Sciences are designed for the working health professional. The School's programs of study provide unique educa-

tional, research, and service-oriented opportunities to students. Programs leading to graduate degrees are:

MS	Allied Health Services Administration*
MS	Communication Sciences
MPH	Community Health Education
MS	Environmental and Occupational Health Sciences
MS	Nutrition

Prospective students apply directly to the program of their choice. For further information on admission and degree requirements, consult individual departmental listings.

Note: Depending upon undergraduate preparation and work experience, some students may be required to achieve some competencies through non-credit independent study, undergraduate courses, or courses not credited toward the degree (i.e., 500-level courses for students who are deficient in certain graduate level skills). These additional requirements vary from program to program.

INTERDISCIPLINARY COURSES

Each course 45 hrs, including conferences, 3 cr, unless otherwise noted.

SHS 600 Biostatistics Prereq: elementary stat or equiv math preparation. Application of statistical methods to health data: demographic concepts, life table, rates and their use in administration and epidemiology, measurements and distribution, testing of significance. Concepts of sampling and controlled experiments.

SHS 601 Principles of Health Care Administration Interaction of official and voluntary health agencies at local, regional, national levels. Examination of objectives, organization, administration. Emphasis on impact of comprehensive health planning and consumer participation.

SHS 700 Principles of Epidemiology Prereq: SHS 600. Lectures, seminars, exercises on concepts, principles, and uses of epidemiology. Study of selected communicable and chronic diseases to illustrate description of distributions and causes, analysis of causes, approaches to prevention.

Infrequent:

SHS 610 Human Physiology

SHS 701 Human Ecology

ALLIED HEALTH SERVICES ADMINISTRATION—MS

This program is no longer accepting students. However, many courses in the program will be available under COMMUNITY HEALTH EDUCATION—MPH for students who wish to take an MPH with a concentration in community health administration or for other students as electives. See COMHE.

COURSE LISTINGS

Each course 45 hrs, including conferences, 3 cr. All students must consult the graduate advisor before registering for any course.

AHSA 750 Basic Economics for Health Service Administration** Offered Fa. Basic tools of economic reasoning applied to health services. Markets, consumer and firm behavior; health insurance, manpower planning, regulation, and current economic regulation.

*This program is no longer accepting new students.

**This course may be available through the Community Health Education MPH program.

AHSA 751 Human Resources Management for Health Service Administration* Offered Fa. Institutional forces shaping health services system; managerial concepts, practices; effective utilization of personnel; union-management relations.

AHSA 752 Basic Financial Management for Health Service Administration* Offered Sp. Basic concepts, applications to health services; basic accounting, financial statement analysis, reimbursement, budgeting, acquisitions, internal control, specific health care delivery needs.

AHSA 753 Management Information for Health Service Administration* Offered Sp. Information needs in a health service setting; notation; computer hardware, software; applications to ambulatory network, large org., interrelationship of departments, management information systems; individual projects.

AHSA 754 Organizational Analysis for Health Service Administration* Prereq: AHSA 750, 751, 752, 753. Analysis of organizational problems, implementation of effective plans; strategic planning; theories of individual behavior, motivation, group processes, organizational structure; complex systems.

AHSA 770 Topics in Allied Health Specialties* Selected advanced professional topics in a specific allied health specialty. Topics to be announced.

COMMUNICATION SCIENCES—MS

Program Directors Lynne W. Clark and Carol A. Silverman,
Brookdale Center room N1306 phone 481-4467

Director, Center for Communication Disorders Florence Edelman,
Brookdale Center room N133 phone 481-4464

Coordinator, Audiology Program Carol A. Silverman, Brookdale Center
room N1306 phone 481-4467

Graduate Advisors Russ Sergeant, Janet R. Schoepflin, Evelyn Pollack,
phone 481-4467.

The communication sciences program prepares students to enter the profession of speech-language pathology and audiology. Program objectives are met through the integration of the academic and clinical practicum components of the program. Clinical practicum and associated research experience are obtained through the program's Center for Communication Disorders and Communication Sciences Clinical & Research Laboratory.

The Center for Communication Disorders serves as the primary clinical practicum site for eligible graduate students. The Center provides diagnostic and therapeutic services to those persons in the community and in the College presenting disorders of speech, language, and/or hearing.

Students obtain clinical practicum experience under licensed and certified supervisors on the communication sciences faculty. Upon recommendation of the faculty, advanced clinical externship practicum is obtained at affiliated facilities in the New York metropolitan area.

The communication sciences program is accredited by The American Speech-Language-Hearing Association as a graduate training program in both speech-language pathology and audiology and as a sponsor of continuing professional education. The program's Center for Communication Disorders is also accredited by ASHA as a professional service center.

Center for Communication Disorders

The Center for Communication Disorders, is located at the Brookdale Health Sciences Campus, 425 East 25th St., room N133. The Center provides diagnostic and therapeutic services for a wide variety of speech, language, and hearing disorders. Services are available to the Hunter College community as well as to the general population.

*This course may be available through the Community Health Education MPH program.

The Center is an integral part of the Communication Sciences Program and provides clinical preparation for students entering the profession of speech/language pathology and/or audiology.

Appointments can be made by calling 481-4464.

THE PROGRAMS

Two curricula are offered leading to the MS degree in communication sciences: one, in the arts and sciences curriculum, prepares students for professional practice in hospitals, college or university clinics, health agencies, specialized clinical settings or, after further post-graduate preparation, private practice; the other, the speech and hearing handicapped curriculum, prepares students as above and, in addition, provides special preparation as a teacher of the speech and hearing handicapped in elementary and secondary schools. Both curricula, upon successful completion, permit students to meet the academic and clinical requirements for ASHA certification and New York State licensure, following completion of a clinical fellowship year and the passage of a national examination in the area of certification.

ARTS AND SCIENCES CURRICULUM

Requirements for Admission

- General admission requirements to the graduate programs in the arts and sciences are observed.
 - Baccalaureate degree from an accredited institution acceptable to Hunter College.
 - Aptitude section of the Graduate Record Examination.
 - Submission of 2 letters of reference.
 - For international students, a report of the Test of English as a Foreign Language (TOEFL) is required for applicants who have not studied in English-speaking countries.
- Students with a background in communication sciences and disorders who wish to matriculate into the MS degree program in the communication sciences, arts and sciences curriculum, also must file for matriculated status. Students without a background in communication sciences and disorders who wish to take the prerequisite courses must file for *matriculated status*.*

As a nonmatriculant, the student can enroll in up to 15 credits of prerequisite coursework requirements for matriculation into the MS degree program in the communication sciences, arts and sciences curriculum. Courses at the 600 level are not credited toward the MS degree. Students without a background in communication sciences and disorders may be recommended by the Admissions Committee to enroll as nonmatriculant students.*
- A minimum of 18 cr in acceptable coursework in communication sciences and disorders, including a basic course in each of the following:
 - Audiology
 - Speech-language pathology
 - Phonetics
 - Anatomy and physiology of the speech and hearing mechanism
 - Speech acoustics or psychoacoustics

*See *nonmatriculant status* at the end of the section titled Communication Sciences—MS.

Requirements for the Degree (52 cr)

Communication Sciences:

Speech-Language Pathology Majors Credits

A.* Core curriculum: COMSC 700, 701, 729.01, 729.02, 729.03, 729.04, 732, 733, 734, 749.01, 751, 781	16
B. Speech and hearing science: COMSC 705, 712	6
C. Language science: COMSC 713, 714, 715	6
D. Language disorders: COMSC 717, 703, 726	6
E. Speech disorders: COMSC 716, 722, 724, 727, 730, 731	12
F. Hearing disorders: COMSC 741, 745	3
G. Aural rehabilitation: COMSC 740, 744	3

Communication Sciences: Audiology Majors

Credits

A.* Core curriculum: COMSC 700, 710, 729.01, 732, 740, 741, 742, 743, 744, 745, 746, 749.01, 749.02, 749.03, 749.04, 749.05, 750, 751, 752, 781; EDSPC 737 (Total Communication: Sign Language)	43
B. Speech and hearing science: COMSC 705, 712	3
C. Language disorders: COMSC 703, 714, 715	3
D. Speech disorders: COMSC 716, 724	3

Students in the arts and sciences curriculum must complete the approved course of study, with the approval of the graduate advisor, within 5 years and with a grade point average of 3.0 or better. Students maintaining an overall GPA of 3.0 who receive less than a B in any semester of clinical practicum may be counseled regarding their status in the program.

Students must complete a minimum of 350 clock hours of supervised clinical practicum with populations of children and adults presenting a variety of communicative disorders. Of these hours, 150 must be obtained on the graduate level and must include satisfactory performance in (a) clinical practicum within the Center for Communication Disorders, and (b) at least 2 externship placements at different affiliated settings. It is strongly recommended that students register for clinical practicum (speech-language pathology or audiology) upon completion of 12-15 program credits. Students must present evidence of 25 hours of clinical observation prior to practicum registration.

Students on academic probation are not eligible for externship placement.

The major emphasis in clinical practicum is placed in the area of ASHA certification. Students must complete all academic and clinical requirements in order to be awarded the MS degree and become eligible for certification by ASHA and licensure in NY State. In addition to MS degree requirements, students must complete 6 credits in basic science course work in biological/physical sciences and mathematics, and 6 credits in behavioral and/or social sciences at either the undergraduate or graduate level in order to satisfy eligibility requirements for professional certification.

National Examination in Speech Pathology and Audiology

Students are required to pass the National Examination in Speech Pathology and Audiology (NESP/A) after at least 24 credits are completed, or prior to graduation.

Research Project/Thesis Candidates for the master's degree in this curriculum must engage in a research activity under faculty supervision (COMSC 781, 782). Students may elect to write a thesis in lieu of taking COMSC 781, 782. The thesis topic must be approved by the candidate's thesis advisor. Students on academic probation will not be permitted to engage in a research project or thesis.

SPEECH AND HEARING HANDICAPPED CURRICULUM**Requirements for Admission**

- General admission requirements to the graduate programs in Arts & Sciences are observed.
 - Baccalaureate degree from an accredited institution acceptable to Hunter College
 - Aptitude section of the Graduate Record Examination
 - Submission of 2 letters of reference
 - For international students, a report of the Test of English as a Foreign Language (TOEFL) is required for applicants who have not studied in English-speaking countries.

- Students with a background in communication sciences and disorders who wish to matriculate into the MS degree program in the communication sciences, arts and sciences curriculum, also must file for matriculated status. Students without a background in communication sciences and disorders who wish to take the prerequisite courses must file for *matriculated status*.*

As a nonmatriculant, the student can enroll in up to 15 credits of prerequisite coursework requirements for matriculation into the MS degree program in the communication sciences, arts and sciences curriculum. Courses at the 600 level are not credited toward the MS degree. Students without a background in communication sciences and disorders may be recommended by the Admissions Committee to enroll as non-matriculant students.*

- A minimum of 18 cr in acceptable coursework in communication sciences and disorders, including a basic course in each of the following:
 - Audiology
 - Speech-language pathology
 - Phonetics
 - Anatomy and physiology of the speech and hearing mechanism
 - Speech acoustics or psychoacoustics
- The candidate for matriculation must have satisfactorily completed 12 undergraduate/graduate cr in the professional study of education in such areas as:
 - Social foundations of education
 - Psychological foundations of education
 - Methods of teaching reading, mathematics, science, or social studies
 - Special Education
- The candidate for matriculation (with a background in communications sciences and disorders) who has completed at least 9 cr but less than 12 cr in the professional study of education may matriculate with the condition that 3 cr in the

*For Speech-Language pathology majors a maximum of 5 cr and for Audiology majors a maximum of 6 cr of clinical practicum can be applied to the degree.

*See nonmatriculant status at the end of the section titled Communication Sciences—MS.

professional study of education are satisfactorily completed on the graduate level as follows:

- Social foundations of education
- Psychological foundations of education
- Methods of teaching reading, mathematics, science, or social studies
- Special education

Requirements for the Degree (55 cr)

Each candidate in the Speech and Hearing Handicapped curriculum with a specialization in either speech-language pathology or audiology must complete an approved program including a minimum of 52 cr in communication sciences.

Students are also required to take COMSC 703: Professional Practice in Educational Settings, and complete a school-based practicum as one of the clinical practicum requirements.

For candidates with a specialization in speech-language pathology, the approved course of study must include:

1. 19 cr of required courses (COMSC 700, 701, 703, 729.01, 729.02, 729.03, 729.04, 732, 733, 734, 749.01, 751, 781)
2. 6 cr of speech and hearing science
3. 6 cr of language science
4. 6 cr of language disorders
5. 12 cr of speech disorders
6. 3 cr of hearing disorders and evaluation
7. 3 cr of aural habilitation/rehabilitation

Candidates with a specialization in audiology must present an approved course of study to include:

1. 46 cr of required courses (COMSC 700, 703, 710, 729.01, 732, 740, 741, 742, 743, 744, 745, 746, 749.01, 749.02, 749.03, 749.04, 749.05, 750, 751, 752, 781, and EDSPC 737)
2. 3 cr of speech and hearing science
3. 3 cr of language disorders
4. 3 cr of speech disorders

National Examination in Speech Pathology and Audiology

The student is required to pass the National Examination in Speech Pathology and Audiology (NESP) once a minimum of 24 credits is completed or prior to graduation.

Research Project/Thesis Candidates for the master's degree in this curriculum must engage in a research activity under faculty supervision (COMSC 781, 782). Students may elect to write a thesis in lieu of taking COMSC 781, 782. The thesis topic must be approved by the candidate's thesis advisor. Students on academic probation will not be permitted to engage in a research project or thesis.

Non—Matriculant Status

Students without a background in communication sciences and disorders who wish to enroll in courses in communication sciences must file a formal application for admission with the Office of Admissions. Students must fulfill all of the admission requirements listed in item number 1 in the section, ARTS AND SCIENCES CURRICULUM, Requirements for Admission. Based on your *matriculant* application, the Admissions Committee will evaluate whether to approve your enrollment in communication sciences courses as a nonmatriculant student.

Students approved for nonmatriculant status who lack a background in communication sciences and disorders must satisfactorily complete 16-19 cr of preprofessional coursework in order to re-apply for matriculation. Courses at the 600 level are not credited toward the MS degree.

Requirements for Matriculation (16-19 cr)

- A. Required courses: COMSC 605, 606, 607, 620, 640, 642* or their equivalents
- B. Recommended courses: COMSC 604

Upon completion of the preprofessional course of study, students who wish to transfer to matriculated status in either the arts and sciences or the speech and hearing handicapped curriculum must file a formal application and meet all standards for matriculation. No more than 12 credits at the 700-level, taken as a nonmatriculant or at another institution, can be credited toward the degree.

DOCTORAL PROGRAM IN SPEECH AND HEARING SCIENCES

The City University, through the Graduate School and University Center, offers a PhD program in speech and hearing sciences. For description of the PhD program, see the *Bulletin of the Graduate School*.

COURSE LISTINGS

Each course 45 hrs, including conferences, 3 cr, unless otherwise noted.

COMSC 604 Introduction to Language Science Prereq: COMSC 607 or equiv. An introduction to the nature of language and communication. Topics include components of the linguistic system, relationships between verbal and non-verbal communication.

COMSC 605 Introduction to Speech and Hearing Sciences Acoustical and perceptual variables in speech and hearing; laboratory instruments and techniques.

COMSC 606 Auditory and Speech Mechanisms Normal anatomy and physiology of the respiratory, laryngeal and supralaryngeal mechanisms, the peripheral ear and central auditory mechanisms, relationships between physiology and normal speech production and perception; auditory physiology.

COMSC 607 Phonetics of American English Phonetic features of speech in relation to American English and dialectal variations of American English.

COMSC 620 Introduction to Speech-Language Pathology Prereq or coreq: COMSC 606. Introduction to organic and behavioral correlates of human communication, its development and disorders. Disorders of voice, articulation, fluency, and language.

COMSC 640 Introduction to Audiology Prereq: COMSC 606. Etiology and pathology of hearing disorders, basic properties of the auditory stimulus; measurement of pure tone thresholds by air and bone conduction.

COMSC 642 Clinical Observation of Communication Disorders 25 hrs, 1 cr; prereq or coreq: COMSC 620, 640, or equiv. Observation of the diagnosis and clinical management of communication disorders under the supervision of the clinical faculty.

COMSC 700 Introduction to Research Methods Prereq: COMSC 606. Introduction to basic research design, and techniques for evaluating research in communication sciences and disorders.

COMSC 701 Counseling of the Communicatively Handicapped and Their Significant Others 2 cr The theoretical and practical aspects of counseling the communicatively handicapped and their significant others; interviewing

*To be satisfied after matriculation.

and counseling skills appropriate to age, gender, education, and cultural background of the communicatively handicapped.

COMSC 703 Professional Practice in Educational Settings Suggested pre- or coreq: COMSC 713, 714, or 752. The multifaceted role of the speech-language pathologist/audiologist in school settings; delivery of traditional and alternative service models; public laws; language-based learning disabilities; cultural diversity issues; roles of language in academic development and instruction. For successful completion of the course, students in the Speech and Hearing Handicapped Curriculum must also attend a 2 hr state-approved seminar on child abuse.

COMSC 705 Speech Science Prereq: COMSC 605 or equiv. Advanced knowledge of science of vocal communication for application to communicative disorders, including phonological level of language, acoustical and physiological aspects of speech production, speech perception, and models of verbal communication; instrumentation.

COMSC 710 Introduction to Psychological and Physiological Acoustics Prereq: COMSC 605, 606, 640 or equivalent. Physiological and psychological aspects of hearing; auditory function.

COMSC 712 Neural Processes of Speech, Language, and Hearing Prereq: background in biological and physical sciences; COMSC 606. Neural mechanisms of speech, language, and hearing; development of brain, major motor, and sensory systems; how lesions to these areas affect normal communicative processes.

COMSC 713 Language Development Through the Preschool Years Speech and language development in the young child; major theories and research findings on acquisition of communication skills from infancy through preschool; individual and cultural variation.

COMSC 714 School Age Language Development and Disorders Prereq: COMSC 713; coreq: COMSC 703. Normal and disordered language development of school-age children; the relation between metacognitive, metalinguistic and linguistic development, and reading development; assessment and management strategies; cultural diversity issues.

COMSC 715 Communication Processes Related to Aging Current understanding of adult development and aging as related to communication processes and disorders. Speech, language, and hearing changes—as well as social, behavioral, physical, and cognitive changes—associated with normal and pathological aging processes. Intervention strategies, diagnostic and treatment materials, and audiological equipment for the communicatively impaired elderly population.

COMSC 716 Phonological Development and Disorders Prereq: COMSC 607, phonetics or equiv. Current research on the study of normal and deviant articulatory and phonological development; methods of assessment and remediation.

COMSC 717 Language Disorders in Preschool-Aged Children Prereq: COMSC 606, 620 or equiv; recommended prereq: COMSC 713. Models of language disorders in preschool-age children; assessment and intervention; cultural diversity issues.

COMSC 722 Fluency and Fluency Disorders Prereq: COMSC 606, 620, or equiv. Current theories and research findings relating to normal fluency processes, onset, development, maintenance, assessment, and treatment of fluency disorders.

COMSC 724 Motor Speech Disorders in Children and Adults Prereq: COMSC 606, 620; recommended coreq: COMSC 712. The neural mechanisms underlying motor speech disorders in children and adults; assessment of the apraxias and dysarthrias including cerebral palsy; intervention strategies and augmentative communication.

COMSC 726 Aphasia and Related Disorders Prereq: COMSC 606, 620; coreq: COMSC 712. Etiology, neurophysiology, recovery, and nature of the aphasia; traumatic brain injury and nondominant hemispheric deficits; assessment and management approaches.

COMSC 727 Voice Problems Prereq: COMSC 606, 620 or equiv. Normal and pathological phonatory physiology; including laryngectomy; objective and subjective methods for voice evaluation; strategies for remediation.

COMSC 729 Clinical Practicum in Speech-Language Pathology Min. 30 hrs, 1 cr. Prereq for 1st cr of COMSC 729: COMSC 606, 620, coreq: COMSC 732; prereq or coreq for 2nd cr of COMSC 729: COMSC 733. Clinical practicum in assessment and management of a wide variety of communication disorders under the supervision of an ASHA-certified and New York State-licensed Speech-Language Pathologist.

COMSC 730 Craniofacial Disorders of Speech Prereq: COMSC 606, 620; recommended prereq or coreq: COMSC 713, 727. Broad spectrum of velopharyngeal incompetence, including embryogenesis, classification of clefts, aspects of cleft palate speech, associated disorders, modes of assessment and intervention, current surgical and prosthetic management of cleft lip, palate and related craniofacial disorders.

COMSC 731 Structural Disorders of Speech, Voice and Swallowing Prereq: COMSC 606, 620; recommended coreq: COMSC 727. Assessment and management of surgically and neurologically based swallowing disorders; the rehabilitation of speech and voice following oral and laryngeal surgery.

COMSC 732 Basic Clinical Methods & Procedures in Speech-Language Pathology 15 hrs, 1 cr. Prereq: COMSC 606, 620 or equiv; prereq or coreq: 1 cr of COMSC 729. Basic clinical methods and procedures in the identification, assessment and management of speech, language and voice disorders.

COMSC 733 Advanced Clinical Methods and Procedures in Speech-Language Pathology 15 hrs, 1 cr. Prereq: COMSC 732, 1 cr of COMSC 729. Advanced clinical, professional, and ethical issues in Speech-Language Pathology.

COMSC 734 Cultural Diversity Issues in the Clinical Process, 15 hrs, 1 cr. Prereq: COMSC 732, 733. Clinical issues, legislation, and historical perspectives as related to the assessment and treatment of linguistically and culturally diverse populations; nonbiased cultural assessment and intervention.

COMSC 740 Aural Habilitation and Rehabilitation Prereq: COMSC 606, 640. Aural habilitation and rehabilitation of the hearing-impaired, from infancy to old age; evaluation of communicative functioning; personal and classroom amplification; assistive-listening devices; tactile aids and cochlear implants; psychosocial, educational and caregiver issues.

COMSC 741 Advanced Audiology Prereq: COMSC 606, 640 or equiv. Audiometric interpretation, speech audiometry; masking; assessment of functional hearing impairment; traditional site-of-lesion test battery.

COMSC 742 Hearing Aids 4 cr. Prereq or coreq: COMSC 741. Hearing-aid coupler and real-ear probe-tube measurements; prescriptive fitting procedures; hearing-aid evaluation, fitting and orientation; counseling; earmold acoustics; hearing-aid components, output limiting, and noise reduction; lab.

COMSC 743 Hearing Conservation Prereq or coreq: COMSC 741. School and industrial hearing conservation programs; noise measurement and instrumentation; auditory effects of noise; hearing protective devices; worker's compensation.

COMSC 744 Speech Perception and Production in the Hearing Impaired Prereq: COMSC 606, 640. Recommended coreq: COMSC 713, 714 or 752 and 705. Speech perception from feature to connected speech levels; speech production including prosodic aspects; speech intelligibility; speech and language abilities in hearing-impaired children and adults.

COMSC 745 Pediatric Audiology Prereq: COMSC 606, 640; recommended: COMSC 741. Genetic factors in hearing disorders; hereditary, congenital, and adventitious hearing defects; normal auditory response and auditory development; identification programs; audiological evaluation; use of physiological measures and assessment of hearing aids.

COMSC 746 Advanced Diagnostic Methods in Audiology 4 cr. Prereq: COMSC 741. Basic principles and clinical applications of acoustic immittance, brainstem auditory evoked potentials and electronystagmography; site-of-lesion and central auditory assessment; lab.

COMSC 749 Clinical Practicum in Audiology Min 30 hrs, 1 cr. Prereq: for 1st cr COMSC 749: COMSC 606, 640, coreq: COMSC 751; prereq or coreq for 2nd cr of COMSC 749: COMSC 752. Clinical practicum in assessment and management of a wide variety of hearing disorders under the supervision of an ASHA-certified and New York State-licensed audiologist.

COMSC 750 Clinical Issues in Basic Audiology 15 hrs, 1 cr. Prereq: COMSC 606, 640; coreq: COMSC 749. Basic audiologic test and screening procedures; audiometric calibration with sound-level meter; biologic checks; masking; counseling; report-writing; AIDS issues.

COMSC 751 Clinical Issues in Advanced Audiologic Assessment 15 hrs, 1 cr. Prereq: 1st cr of COMSC 749; coreq: 2nd cr of COMSC 749. Professional and ethical issues of audiologic practice; advanced acoustic immittance and brainstem and auditory evoked potentials testing; earmold impressions and modification; functional hearing-impaired test procedures.

COMSC 752 Normal Speech and Language Development for Audiologists 15 hrs, 1 cr. Prereq or coreq: COMSC 620. Overview of speech, language,

and cognitive development in normal children, including individual and cultural variations in communication development.

COMSC 781, 782 Independent Study Hrs to be arranged, 2 cr. Prereq: Completion of 24 cr min and comprehensive examination; limited research study to permit in-depth exploration of single area with faculty supervision.

COMSC 796 Special Problems Directed study under supervision of faculty members. For doctoral credit, must be supervised by member of doctoral faculty.

COMSC 799 Thesis Seminar Hrs to be arranged, 3 cr. Individual research under supervision.

COMMUNITY HEALTH EDUCATION—MPH

Program Director Stephen Zoloth, Brookdale Center room W1004

phone 481-5111

Graduate Advisors Marilyn Auerbach, Beth Richie, Ida Susser,
Stephen Zoloth Brookdale Center room W1004 phone 481-5111

This program, which awards a master of public health degree, is designed to prepare graduates for careers as professional community health educators. The curriculum seeks to develop concepts and skills required for supervisory, consultative, and administrative positions in public or voluntary agencies. It emphasizes the interaction of individual, social, and political factors that influence the health of the public. The program is accredited by the Council on Education for Public Health, accrediting agency for schools of public health and master's programs in this field. Graduates are eligible for positions previously restricted to graduates of schools of public health. The program also offers a dual degree: a Master of Science in Nursing/Master of Public Health (MSN/MPH). Please see catalog entry under the School of Nursing for further information.

Requirements for Admission

1. General admission requirements to the graduate programs in the arts and sciences are observed.
2. Aptitude section of the Graduate Record Examination.
3. Undergraduate major in natural or social sciences, health education, or nursing. Students are expected to present a background in both the natural and behavioral sciences. Highly qualified students may be admitted with conditions upon recommendation of the graduate advisor.
4. 2 years experience in community, health, or education.
5. Interview with faculty member.
6. Students without significant experience in public health may be required to take COMHE 770.93 Introduction to Public Health, prior to admission.

Requirements for the Degree

1. 48 cr chosen as follows:

All courses in Group A (see below under Course Distribution)

At least one course from each area of Group B

Fieldwork

Other courses (see Group C) chosen in consultation with the advisor. Electives may be chosen to obtain a concentration in a desired area, e.g., administration, sexuality/reproductive health, gerontology, nutrition, occupational/environmental health, international health, or AIDS prevention.

2. A comprehensive examination upon completion of course work.

Note: In addition to the program requirements listed above, the students, depending on their undergraduate preparation and work experience, may be required to achieve some of these competencies through non-credit independent study or undergraduate courses.

At the completion of the program the student is expected to have acquired an understanding of the concepts basic to the maintenance and improvement of personal and community health; a knowledge of the organization and functioning of health services; and a mastery of the health education skills necessary to achieve stated goals.

Up to 12 credits of program requirements may be waived for students who demonstrate mastery of specific content required for the degree.

Course Distribution

Group A—Required (18 cr)

SHS 600, 601, 700

EHS 700

COMHE 700, 745

Group B—One course required in each area (15 cr)

Community Organization - COMHE 740

Urban Planning - URB 700, 702, 760, 749

Group Dynamics - COMHE 701, PSYCH 651

Health Communications - COMHE 702

School Health - consult advisor

Group C—Electives listed below (9-12 cr) or other related courses selected with approval of advisor. Within these elective credits, students may choose a concentration, which includes 9-12 cr in one of the topic areas listed below and a field work placement (COMHE 738) in that area. Concentrations are designed to give students more advanced knowledge of and skills in a particular area. All students are encouraged to select a concentration.

Concentrations:

Gerontology

COMHE 601 URB 787.66

NUTR 742

or independent study with Brookdale Center staff

Health Care Administration

COMHE 741 AHSA 750* AHSA 753*

COMHE 742 AHSA 751* AHSA 754*

AHSA 752*

International Health

COMHE 712 ANTH 731 ECO 751

ANTH 716 ANTH 732 URBP 787.54

or other related courses

Nutrition

NUTR 740 NUTR 736

HECO 741

or other related nutrition courses

*When presented will have COMHE numbers and/or topic numbers.

Occupational/Environmental Health

COMHE 726 EOHS 705 EOHS 728 EOHS 757
 EOHS 702 EOHS 720 EOHS 730 EOHS 770.52
 or other related environmental and occupational health courses

Sexuality/Reproductive Health/Women's Health

COMHE 714 COMHE 723
 COMHE 721 COMHE 724
 COMHE 722

AIDS Prevention

COMHE 770.87 COMHE 713 COMHE 722
 COMHE 770.89 COMHE 714
 or other related courses or independent study

Other Electives:

COMHE 703 COMHE 720 COMHE 781
 COMHE 711 COMHE 725 COMHE 782
 COMHE 713

Group D—Supervised Fieldwork (6 cr)

(3 months full-time or equivalent) Required of all students

COMHE 738

Total: 48 credits

COURSE LISTINGS

Each course 45 hrs, including conferences, 3 cr, unless otherwise noted.

COMHE 601 Introduction to Gerontology Changes in certain aspects of health during middle and later years. Aging and sexuality. Common causes of mortality and morbidity. Psychosocial and economic aspects, legislation, and community organization.

COMHE 700 Principles of Community Health Education Review of determinants of community health. How to plan, implement, and evaluate programs designed to improve well-being of populations. Students investigate a specific health problem in a community.

COMHE 701 Group Processes In groups of no more than 15, students utilizing group discussion techniques work toward greater objectivity in observing and understanding own behavior and that of group. Skills in group participation, leadership, and communication identified and refined.

COMHE 702 Theory and Practice in Health Communication How to communicate effectively with consumers in teaching-learning situations common to health educators. Communication models will be examined. Understanding health education materials and feedback in health education settings.

COMHE 703 Health Advising in the Community Prereq: COMHE 701, 702. Examination of individual and group advising approaches focused on helping consumers reach optimal personal health and full development of personal health resources. Practice in various reality-oriented theories. Video playback techniques.

COMHE 711 Community Mental Health Programs 30 hrs, 2 cr. Prereq: COMHE 700. Concepts of mental health and illness, problems in classification, distribution, and etiology of mental disorders. Influences of social context and cultural situations. Guest lecturers on on-going community programs in mental health.

COMHE 712 International Health Health needs and problems in developing countries; influence of geographical, political, economic, and cultural factors on health status; role of international health agencies; health consequences of migration.

COMHE 713 Addictions and Dependencies Recent findings concerning smoking, alcohol, narcotics, and other abused drugs. Recent legislation. Guest speakers; field trips to rehabilitation centers. Emphasis on behavioral aspects with focus on abuser rather than substances being abused.

COMHE 714 Human Sexuality Emotional, social, and physical development related to human sexuality. Emphasis on self-understanding and awareness of own sexual nature and needs. Methods, materials, and evaluation of sex education program in community settings.

COMHE 720 Alcoholism Scope, etiology, and treatment of alcoholism; role of supportive agencies. Alternatives and strategies for intervention and prevention. Field trips to community programs.

COMHE 721 Family Planning Examines pregnancy, labor and delivery, contraception, abortion, sterilization and infertility; assesses effects of sexually transmitted diseases on reproduction; describes family planning programs in selected countries.

COMHE 722 Counseling in Sexuality and Family Planning Prereq: COMHE 714. Explores counseling theory and clinical skills required by educators working in reproductive health facilities; examines specific needs of adolescents, pregnant women and partners, infertile couples, and older people.

COMHE 723 Sexuality Through the Life Cycle: Educational and Clinical Aspects Prereq: COMHE 714. Considers issues of gender role, gender identity, eroticism, intimacy, love, sexual orientation; social role and genital sexual expression; assists students to distinguish between normal and problematic sexual expression in various life stages.

COMHE 724 Family and Sexual Violence Causes of violence against women, children, and older people. Descriptions and critiques of existing programs. How to develop preventive public health interventions.

COMHE 725 Patient Education How to develop patient education programs; strategies of implementation; evaluation; emphasis on self-care. Uses case histories of existing programs.

COMHE 726 Health Education in the Workplace Development of health education programs for prevention of occupational accidents and illnesses; role of unions, health providers, and industry. Politics of health education in the workplace. Health promotion in the workplace.

COMHE 738 Fieldwork 3 months full time (420 hrs), 6 cr. Prereq: completion of 20 cr incl COMHE 700, 702. Directed field experiences in official or voluntary health agencies or community social agencies. Placement in relation to student's background and career expectations. Emphasis on applying classroom concepts and skills. Entire time in one agency or, for shorter periods, in 2 or more agencies. Accompanying seminar.

COMHE 740 Community Organization for Health Prereq: COMHE 700, 701. Theory and practice of community organization; case histories of communities organizing to solve specific health problems; strategies and tactics for community organization for health.

COMHE 741 Health Program Planning, Funding, and Evaluation Prereq: completion of 15 cr incl SHS 600. Working research seminar. Students identify or design a health program, find funding sources, develop proposal covering program need, objectives, method, evaluation, budget, planning, support.

COMHE 742 Research and Evaluation in Health Education Prereq: 15 cr in program incl SHS 600. Basic concepts, methods, and approaches for evaluation research applied to community health education and health-related programs. Critical review of literature; design of evaluation program.

COMHE 745 Seminar in Current Health Problems: Health Education and Public Policy Prereq: 20 cr including COMHE 700, 701, 702 and SHS 601. Through in-depth exploration of major health issues, course examines how government policies and social and economic factors influence the practice of health education and how health professionals can influence policy.

COMHE 770.70-.99 Topics in Community Health Education Courses on current areas of professional interest, offered periodically. The following courses are expected to be offered in 1993-1996:

COMHE 770.68 Introduction to Health Services Management
 COMHE 770.77 Computers in Public Health
 COMHE 770.79 Issues in Urban International Health
 COMHE 770.87 Developing Effective AIDS Education Programs
 COMHE 770.89 Multicultural Approaches to AIDS Prevention: Theory and Practice
 COMHE 770.93 Introduction to Public Health

COMHE 781,782 Independent Study Hrs to be arranged, 2 cr. Prereq: perm program director, matriculated status, and completion of one sem grad study. Directed reading or research course designed to permit exploration of single area in depth, with faculty guidance. Student must find faculty sponsor prior to registration.

ENVIRONMENTAL AND OCCUPATIONAL HEALTH SCIENCES—MS

Program Director David Kotelchuck, Brookdale Center room W1028
phone 481-5119

Graduate Advisors Jack Caravanos, Mark Goldberg, Brookdale Center
room W1008 phone 481-5119

This program is designed for individuals seeking careers as environmental and occupational health professionals. While emphasizing the recognition, evaluation, and control of environmental and occupational factors affecting health, the curriculum also includes consideration of economic, sociopolitical, and regulatory issues. Offerings are designed so that students may pursue a broad course of study in environmental health science or may specialize in occupational health and safety. Opportunities are available for internships with numerous outside organizations (see Field Instruction Centers below) as well as for research with faculty members. All courses are held in the evening, and studies can be pursued on a part-time basis.

Together with several other major professional training institutions, this program is a component of the Educational Resource Center designated for this region by the National Institute for Occupational Safety and Health.

Graduates of the program are qualified for research, management, and planning positions in a variety of private and public institutions. Career options include air and water pollution control, hazardous waste management, industrial hygiene, occupational health and safety, environmental planning, and environmental public health. After a prescribed period of work experience, graduates can qualify for examinations to become Certified Industrial Hygienists (CIH), Certified Safety Professionals (CSP), Certified Hazardous Materials Managers (CHMM) or Registered Sanitarians (RS).

Requirements for Admission

1. General admission requirements to the graduate programs in arts and sciences are observed.
2. The aptitude section of the Graduate Record Examination.

An undergraduate major in science or engineering is desirable.

Students are expected to have completed the following college-level courses: one year of general chemistry, one year of biological sciences, one semester of organic chemistry, and one semester of mathematics with quantitative skills at least equivalent to a college algebra course.

Students with a good academic record who do not meet the above requirements may be admitted with conditions upon recommendation of the program admissions committee.

Requirements for the Degree

Full-time students are generally able to complete the requirements in 18-24 months. The MS program requires completion of the following curriculum:

A minimum of 36 credits including:

- Core courses
- Specialized professional sequence
- Internship or research project
- Seminar
- Electives

In addition, the program requires either a master's thesis or 8 additional elective credits and a comprehensive examination.

Course Distribution**Core (all required)**

EOHS 700	EOHS 741	EOHS 757
EOHS 705	EOHS 754	SHS 600, 700

COURSE LISTINGS

Each course 45 hrs, including conferences, 3 cr, unless otherwise noted.

EOHS 700 Environmental Health and Safety Survey of chemical, physical, and biological factors influencing quality of ambient, workplace, and home environments; air and water pollution; radiation and noise hazards; hazardous substances; solid wastes; food protection; accidents; pesticides.

EOHS 702 Introduction to Occupational Safety and Health Introduction to basic concepts and issues of occupational safety and health, including recognition and control of chemical and physical hazards and the regulations governing these hazards.

EOHS 705 Chemistry and Physics of the Environment Survey of chemical and physical concepts essential for understanding environmental and occupational health sciences, including study of the atmosphere, hydrosphere, air and water pollution, and energy resources. Physical principles of heat and energy, heat transfer processes and radioactivity will be discussed.

EOHS 710 Industrial Safety and Safety Management Fundamental concepts and principles of industrial accident prevention and loss control; safety program organization; hazard recognition and evaluation; accident investigation; machine guarding; fire protection; personal protective equipment.

EOHS 715 Industrial Hygiene for Health Professionals Introduction to the recognition and evaluation of workplace health hazards. Topics include: industrial health hazard identification and health evaluation, instrumentation, interpretation of sampling results, medical monitoring, and industrial hygiene programs. (This course is not a substitute for the required course EOHS 757.)

EOHS 720 Environmental Criteria and Standards Coreq or prereq: EOHS 700. Examination of scientific, social, political, and legal bases for environmental health standards; emphasis on case studies. Students prepare critical review papers of specific standards, evaluating applicable criteria, feasibility, and implications for enforcement.

EOHS 725 Occupational Health Law Coreq or prereq: EOHS 702. Important legal issues related to worker health and safety protection and the OSHA Act, including standards setting, cost-benefit analysis, tort law and general legal principles.

EOHS 728 Seminar in Current Environmental & Occupational Health Issues Prereq: EOHS 700 or EOHS 702. Environmental and occupational health and safety problems of current importance, including air and water pollution, hazardous waste, noise pollution, radiological health, toxicology, epidemiology and industrial hygiene.

EOHS 730 Environmental and Occupational Epidemiology Prereq: SHS 600, 700. Principles of epidemiological experimental design in studies of environmentally and occupationally induced disease; 4-fold tables; significance versus magnitude of association, estimation of relative risk, matching cases and controls; determining sample size.

EOHS 738.01, .02, .03, .04 Field or Laboratory Research Projects in Environmental Health Science Hrs to be arranged, 1-4 cr.

EOHS 739 Thesis Seminar in Environmental Health Science 30 hrs, 2 cr. Seminar correlated with thesis research.

EOHS 740 Applications of Computers to Environmental Problems Basic concepts and principles of computers and programming as currently employed in solving environmental problems.

EOHS 741 Environmental and Industrial Hygiene Laboratory 90 hrs lec and lab, 4 cr. Coreq or prereq: EOHS 705. Physical, chemical, and instrumental methods for measuring environmental and occupational contaminants.

EOHS 743 Air Resource Management Air pollution sources, types of pollutants, transport phenomena, effects on health and on vegetation and materials; air quality monitoring, criteria, standards, and control methods.

EOHS 744 Radiological Hazards: Assessment and Control Health and safety problems involved in use of ionizing and non-ionizing radiation, ultra-violet, and microwave hazards; the elements of the electro-magnetic spectrum. Safe standards of exposure and shielding for medical uses and industrial applications.

EOHS 745 Hazardous Waste Management A review of the sources, transportation and control of hazardous chemical wastes. Regulatory requirements, disposal methods and health effects will also be presented.

EOHS 746 Water Resources Water and wastewater technology related to public health. Sources of water supply, distribution, treatment; chemical, biological and physical water pollutants and their health consequences. Review of federal legislation. Field trip to wastewater treatment plant.

EOHS 751 Microbiology: Applications to Environmental Health Problems 75 hrs lec and lab, 3 cr. Microbiology of food and dairy products, water, sewage, and air; control of public health problems in institutions; standard and recommended procedures.

EOHS 754 Environmental and Occupational Toxicology Prereq: EOHS 700 and 705. Introduction to principles of toxicology with emphasis on environmental and occupational aspects. Systematic review of the toxicology of major organ systems; health effects of categories of toxins, such as solvents and metals; and review of toxicological testing and evaluation.

EOHS 755 Industrial Ventilation and Environmental Control Fundamentals of industrial ventilation: air flow, local and dilution exhaust ventilation systems, hood and piping design, fan type and selection, air cleaning devices, system-testing; problem-solving; engineering controls.

EOHS 757 Principles of Industrial Hygiene Recognition, evaluation, and control of industrial hazards due to chemical and physical agents. Topics include occupational health standards, regulatory agency activities, effects of contaminants on human health, sampling and control of hazards, current issues.

EOHS 758 Industrial Hygiene Laboratory 60 hrs, 2 cr. Coreq or prereq: EOHS 757. Practical aspects of recognition, evaluation, and control of industrial health hazards such as air contaminants, noise, heat, and radiation; instruments and techniques for sampling and measurement of workplace hazards.

EOHS 762 Noise and Radiation Hazards and Controls Coreq or prereq: EOHS 705. Introduction to basic concepts of sound, noise measurement, and noise control in community and occupational environments. Health and safety problems involved with the use of ionizing and non-ionizing radiation, with an emphasis on identification and control.

EOHS 770.52 Industrial Hygiene Studies and Plant Visits Prereq: EOHS 700, 757. Case studies, plant visits, and class presentations on basic operating aspects, concomitant health hazards, and industrial hygiene practices of representative manufacturing processes. Emphasis on industrial hygiene surveys and reports. Daytime attendance for plant visits.

EOHS 770.63 Topics in Asbestos Health Effects and Controls Asbestos health hazards; related federal, state, and local regulations; industrial hygiene methods for controlling or eliminating asbestos exposure; proper asbestos work practices.

EOHS 770.69 Topics: Solid Waste Management Topics in municipal solid waste management, including sources, composition, transportation requirements, disposal options, and environmental and public health implications.

EOHS 770.72 Environmental Law Prereq: EOHS 700 or 705. Comprehensive law course taught by a practicing environmental lawyer covering topics in air, water and land contamination. Extensive reading involved. Review of appropriate legislation.

EOHS 770.73 Topics: Ergonomics Topics in ergonomics, including anthropometrics, biomechanics of lifting, effects of noise, temperature and illumination, indoor air quality, and occupational stress.

EOHS 770.75 Indoor Air Quality Sources, evaluation and control of indoor air contaminants with a focus on conducting indoor air quality evaluations. Review of ASHRAE guidelines and legislation.

EOHS 770.76 Environmental Chemistry Basic review of inorganic and organic chemistry using environmental (air and water) examples. Recommended for students who feel a need to improve their chemistry knowledge and skills. Homework problems and exams.

EOHS 770.80 Fire Safety and Prevention Prereq: EOHS 705 or equivalent. Chemistry and classification of fires, fire inspection procedures, suppression systems, review of NFPA and NYC fire codes. Review of emergency response procedures involved in hazardous materials clean-ups. Taught by a practicing NYC fire safety professional.

EOHS 770.81 Environmental Audits and Site Assessment Prereq: EOHS 700. The purpose of this course is to teach students how to conduct Phase I and II environmental assessments. These investigations are fast becoming routine during commercial property transactions. The newly released ASTM standard will be used as the model for conducting the assessments. In addition, the important topic of Environmental Compliance Auditing will be introduced and presented.

EOHS 770.82 Industrial Hygiene at Hazardous Waste Sites Prereqs: EOHS 700 and 757. This advanced course seeks to teach students about the health and safety responsibilities involved in protecting hazardous-waste site workers. The course will cover all the topics mandated in 29 CFR 1910.120 (OSHA 40 hr. Health & Safety Course for Hazardous Waste Site Personnel) and students will be eligible to receive a certificate upon completion. Topics include: health and safety issues, protective clothing and respirator selection, site investigation, confined space requirements, sampling and analytical equipment, duties of a site safety officer.

EOHS 781, 782 Independent Study Hrs to be arranged, 2 cr. Prereq: matriculated status and satisfactory completion of 1 sem grad study, perm program director. Directed in-depth reading in single area.

May Not Be Offered 1993-1996

- | | |
|----------|---|
| EOHS 742 | Analytical Chemistry: Application to Environmental Health Problems |
| EOHS 750 | Environmental and Work Physiology |

NUTRITION—MS and AP4 (certificate)

Program Director Karen O'Brien, Brookdale Center room W708
phone 481-7563
Graduate Advisor Paula Fishman, Brookdale Center room W711
phone 481-7592
***AP4 Director** Karen O'Brien

The purpose of this program is to prepare selected and qualified students for a career in nutrition. The graduates of this program may work as nutritionists in a wide variety of health care facilities including hospitals and public health agencies. Those who are fully qualified to do so (having met IV/V of the American Dietetic Association and completed a dietetic internship or an Approved Pre-Professional Practice Program [AP4]) may enter the profession of dietetics by acquiring membership in the American Dietetic Association and taking the Registered Dietitian Examination. *Selected matriculants can complete the pre-professional practice externship (AP4) as 600 level courses. An AP4 application is required in addition to the MS application.

Requirements for Admission

In addition to the general requirements for admission to the graduate program at Hunter College, candidates must have one undergraduate semester of each of the following: inorganic chemistry, organic chemistry, biochemistry, biology or human anatomy, human physiology, microbiology, nutrition** (to an advanced level), diet therapy, and food science**. Candidates for AP4 must have completed Plan IV/V of the American Dietetic Association. Request an application for the AP4 from the Program Secretary (212-481-7563).

*Credit granted toward MS.

**Competency examinations in lieu of coursework are also offered in these subjects. Call for further information.

Requirements for the Degree

Completion of 30 credits from the following components:

1. Required Courses (12 cr)

- NUTR 731 Nutrition and Metabolism I
(Proteins, Carbohydrates, Lipids)
NUTR 732 Nutrition and Metabolism II
(Minerals, Vitamins, Water)
NUTR 735 Clinical Nutrition
NUTR 737 Introduction to Nutrition Research

2. Nutrition Specialty (9-12 cr)

a. Clinical Nutrition in the Institutional Setting

- NUTR 733 Developmental Nutrition
NUTR 734 Nutrition and Disease
NUTR 738 Nutrition Seminar
NUTR 739 Computer Applications to Dietetics and Nutrition
NUTR 741 Nutritional Assessment
NUTR 742 Nutrition and the Geriatric Population
NUTR 743 Drug and Nutrient Interaction
NUTR 745 Parenteral and Enteral Nutrition
NUTR 761 Problem Seminar
NUTR 783 Independent Study
NUTR 790 Thesis Seminar

b. Clinical Nutrition Counseling in Private Practice

- NUTR 733 Developmental Nutrition
NUTR 734 Nutrition and Disease
NUTR 738 Nutrition Seminar
NUTR 739 Computer Applications to Dietetics and Nutrition
NUTR 740 Nutrition Education
NUTR 741 Nutritional Assessment
NUTR 742 Nutrition and the Geriatric Population
NUTR 743 Drug and Nutrient Interaction
NUTR 744 The Consumer and Food
NUTR 761 Problem Seminar
NUTR 783 Independent Study
NUTR 790 Thesis Seminar

c. Nutrition Education in the Business or Community Setting

- NUTR 733 Developmental Nutrition
NUTR 734 Nutrition and Disease
NUTR 736 Community Nutrition (Prereq: NUTR 741)
NUTR 740 Nutrition Education
NUTR 741 Nutritional Assessment
NUTR 742 Nutrition and the Geriatric Population
NUTR 743 Drug and Nutrient Interaction
NUTR 744 The Consumer and Food
NUTR 761 Problem Seminar
NUTR 783 Independent Study
NUTR 790 Thesis Seminar

d. Food and Nutritional Research

- NUTR 734 Nutrition and Disease
NUTR 741 Nutritional Assessment
NUTR 743 Drug and Nutrient Interaction
NUTR 745 Parenteral and Enteral Nutrition
NUTR 761 Problem Seminar
NUTR 783 Independent Study
NUTR 790 Seminar (required)

Note: Biochemistry laboratory experience is a prerequisite. SHS 600 is required from the Interdisciplinary Electives.

3. Interdisciplinary Electives (6-9 cr)

Select from the following or from related courses with program approval:

- COMHE 601 Introduction to Gerontology

- COMHE 700 Group Processes
COMHE 702 Theory and Practice in Health Communication
EOHS 700 Environmental Health and Safety
SHS 600 Biostatistics
SHS 601 Principles of Health Care Administration
SHS 700 Principles of Epidemiology
AHSA 752 Basic Financial Management for Health Service Administration
NURS 642 Psychobiological Aspects of Aging
ANTH 716 Medical Anthropology
SHS 610 Human Physiology

4. Optional Courses

These courses do not count toward the MS*, but may be selected by students seeking to meet Plan IV/V competencies in food science and food service or as prerequisites to the AP4 courses:

- NUTR 651 Nutritional Contribution of Foods
NUTR 652 Food Service and Personnel Management

AP4 Courses (Supervised Externship)

These courses are available to selected students (separate application required). Together, they constitute an AP4. A certificate is granted upon completion of all (3) three courses only. Only 654 counts towards the MS degree.

- NUTR 653.01 Pre-professional Practice in Dietetics I
NUTR 653.02 Pre-professional Practice in Dietetics II
NUTR 654 Seminar in Dietetics Practice*

5. Completion of one of the following:

- a. Thesis. *Note:* Students must enroll in NUTR 790 (Thesis Seminar) for 3 of their specialty credits.

or

- b. 6 additional credits from the nutritional specialty selected, plus successful completion of a comprehensive examination.

- c. AP4 plus MS: 42 credits total. 3 additional credits in nutritional specialty plus 3 AP4 courses.

COURSE LISTINGS

Each course 45 hrs, 3 cr, unless otherwise noted.

NUTR 651 Nutritional Contribution of Foods Concentrated course in food science designed to fulfill ADA Plan IV/V requirements.

NUTR 652 Food Service and Personnel Management Discusses principles of management and applications specifically to the food service environment. Designed to fulfill ADA Plan IV/V requirements in management.

NUTR 653.01 Pre-professional Practice in Dietetics I Supervised externship in dietetics and classroom discussions of readings and field experiences. Open to AP4 students only.

NUTR 653.02 Pre-professional Practice in Dietetics II Supervisor externship in dietetics and classroom discussions of readings and field experiences. Open to AP4 students only.

NUTR 654 Seminar in Dietetics Practice Discussions and student presentations of topics of current interest in the practice of dietetics. Open to AP4 students only.

NUTR 731 Human Nutrition and Metabolism I Comprehensive study and evaluation of current research on biochemical and metabolic significance of proteins, carbohydrates, and lipids to human nutrition.

NUTR 732 Human Nutrition and Metabolism II Comprehensive study and evaluation of current research on biochemical and metabolic significance of minerals, vitamins, and water to human nutrition.

*Credit granted toward MS.

NUTR 733 Developmental Nutrition Relation of nutrition to growth and development; nutrition requirements throughout life cycle.

NUTR 734 Nutrition and Disease Investigation of interrelationships between disease entities and therapeutic modification of food consumption.

NUTR 735 Clinical Nutrition Clinical symptoms and their relationship to genetic and metabolic disorders seen in nutritional practice.

NUTR 736 Community Nutrition Nutrition programs of public health and social welfare agencies.

NUTR 737 Introduction to Nutrition Research Study and evaluation of methods used in nutrition research.

NUTR 738 Nutrition Seminar Current topics in nutrition.

NUTR 739 Computer Application to Dietetics and Nutrition Computer applications reviewed and applied to study of nutrition and dietetics.

NUTR 740 Nutrition Education Methods and materials used in teaching nutrition to individuals and groups in varied settings.

NUTR 741 Nutritional Assessment Study and evaluation of anthropometric, biochemical, and other measurement methodologies as they relate to nutritional status of various population groups.

NUTR 742 Nutrition for the Geriatric Population Investigation of specific nutritional requirements of elderly adult population with attention to multidisciplinary approach to treatment.

NUTR 743 Drug and Nutrient Interaction Review and update of research relating to multi-faceted responses between nutrient and drug consumption.

NUTR 744 Consumer and Food Available food supply, world hunger, marketing, and legislation.

NUTR 745 Parenteral and Enteral Nutrition Survey of the disease states; assessment techniques and procedures.

NUTR 761 Problem Seminar Intensive study of current specialized research in one area of food and nutrition.

NUTR 783 Independent Study

NUTR 790 Thesis Seminar

SELECTED FIELD INSTRUCTION CENTERS

Communication Sciences

Beth Israel Medical Center
Blythedale Children's Hospital
Brookdale Hospital Medical Center
Brooklyn Hospital
Danbury Hospital
Goldwater Memorial Hospital
Gouverneur Hospital
Hebrew Home for Aged
ICD Research and Rehabilitation Center
Kennedy Child Study Center
Long Island College Hospital
Long Island Jewish Medical Center
Manhattan Eye and Ear and Throat Hospital
Mt. Sinai Medical Center
New York Eye and Ear Infirmary
New York League for the Hard of Hearing
New York Veterans Administration Medical Center
North Central Bronx Hospital
Orthopedic Institute Preschool Unit, Hospital of Joint Diseases
Rose F. Kennedy Center
St. Barnabas Hospital
St. Francis DeSales School for the Deaf
St. Joseph's Hospital of Yonkers
St. Luke's-Roosevelt Hospital Center
St. Vincent's Hospital
Sunshine School
United Cerebral Palsy — Brooklyn (Hearst Early Instruction Center)
Westchester County Medical Center, Valhalla

Western Queens Developmental School
Young Adult Institute

Community Health Education

American Cancer Society
American Diabetes Association
American Red Cross
Brookdale Center on Aging
Hunter College
Brooklyn Teen Pregnancy Network
Center for Occupational and Environmental Health
Hunter College
Center on AIDS, Drugs and Community Health
Hunter College
Columbia Presbyterian Medical Center
Young Adult Clinic
Community Environmental Health Center
Hunter College
Cornell University Medical Center
Corporate Care System
District Council 37 Health & Safety
The Door — A Center of Alternatives
Gay Men's Health Crisis, Inc.
Intercambio — Exchange University of Puerto Rico
Long Island College Hospital
Division of Alcoholism Services
March of Dimes
Memorial Sloan-Kettering Hospital
Cancer Information Service
Montefiore Medical Center
Community Health Participation Program
NYC Department of Health
Office of Health Promotion
NY State Department for the Aging
NY State Department of Health
Offices of Members of NYC Council, NY State Legislature, and US Congress
Planned Parenthood of NYC
Riverside Church
Health Action Resource Center
United Nations Fund for Population Activities

Environmental and Occupational Health Sciences

Amalgamated Clothing and Textile Workers Union (ACTWU)
Center for Safety in the Arts
Detail Associates, Inc.
District Council 37, American Federation of State, County and Municipal Employees (DC 37, AFSCME), Safety & Health Training Unit
Gateway National Recreation Area
Division of Professional Services
IHI-Kemron, Inc.
Mt. Sinai Medical Center
Environmental Sciences Laboratory
National Union of Hospital and Health Care Employees
NJ State Department of Health
Occupational Health Program
NYC Health Department
Environmental Epidemiology Unit
Health Research Training Program
NY Committee for Occupational Safety and Health
NY State Attorney General's Office, Environmental Protection Bureau
Paterson, NJ Department of Health, Occupational Health Program

History

Chair Barbara Welter, West Building room 1512 phone 772-5480

Graduate Advisor Pierre Oberling, West Building room 1508 phone 772-5491

FACULTY

Dolores Greenberg, Professor; PhD, Cornell; US Economic and Energy History, Late 19th-Century and Western US History

James P. Harrison, Jr., Professor; PhD, Columbia; Asian History, History of China, Vietnam

Dorothy O. Helly, Professor, PhD, Harvard; Modern British History, British Empire and Commonwealth, Women's Studies

Michael M. Luther, Associate Professor; PhD, Columbia; European History, History of Russia & Soviet Union, International Relations, Soviet Foreign Policy, Russian Intellectual History

JoAnn McNamara, Professor; PhD, Columbia; Medieval History, History of Christianity to Reformation, History of Women

Pierre Oberling, Professor; PhD, Columbia; Middle East History from Rise of Islam to Present, European History in 19th Century

Marta Petruszewitz, Assistant Professor; Laurea (dottorato), University of Bologna; Modern European History, European Economic History

Robert M. Seltzer, Professor; PhD, Columbia; Jewish History, Historiography, Intellectual History

Nancy G. Sraisi, Professor; PhD, CUNY; Medieval History, History of Science to 17th Century

J. Michael Turner, Associate Professor; PhD, Boston; South American History, African History

Leonard S. Wallock, Associate Professor; PhD, Columbia; US Urban & Labor History

Barbara Welter, Professor and Chair; PhD, Wisconsin; US History to 20th Century, History of American Women, History of American Religion

MASTER OF ARTS

The MA is offered either as a terminal degree or as the first year (30 credits) of work toward fulfilling the requirements of the PhD within the City University.

The university's doctoral program in history is described in the *Bulletin of the Graduate School*. Advanced doctoral seminars and university colloquia are offered at the CUNY Graduate School and University Center.

Departmental Requirements for Admission

General admission requirements to the graduate programs in the arts and sciences are observed. Students who enter the program through an accelerated BA/MA program in history must complete the undergraduate distribution requirement before any graduate course work may be started.

Departmental Requirements for the Degree

A reading knowledge of French or German is required. In cases where work for the MA requires knowledge of another language, it may be offered as a substitute for one of the above languages with the approval of the graduate advisor.

In addition to course and seminar work the student is required to pass an examination in one field of history chosen from the following: ancient, medieval, early modern (to 1815), modern Western European (from 1789), British, Eastern European, American, Latin American, Jewish, East Asian, African, or Middle Eastern history.

After completion of all other requirements, the candidate for the degree must present a satisfactory master's essay (prepared in conjunction with the thesis seminar), approved by the faculty scholar in the appropriate field of history.

Each candidate must complete an approved program of study of at least 30 cr, including:

1. At least 3 cr in historical writing (HIST 770, 771).
2. At least 6 cr in advanced research courses (HIST 760-769, 772-778, RAS 771).
3. The thesis seminar (HIST 779).

Courses other than those in the Department of History may be credited toward the 30 cr with the approval of the graduate advisor, but they may in no case exceed 9 cr. At least 6 cr in a field of history other than the area of concentration must be taken and passed with a grade of B or better.

Cycling of Courses

Courses in European history, American history, and Russian area studies, and one or more research courses (seminar, colloquium, or topics in history) are offered every semester. Courses in other areas are scheduled flexibly as need arises. For details, consult the department.

PROGRAM FOR THE PREPARATION OF SECONDARY SCHOOL TEACHERS OF SOCIAL STUDIES

Admission

This Teacher Education Program (TEP) is not for individuals who already have provisional certification in the teaching of social studies. Provisionally certified teachers should apply for the Master of Arts in History. (With the approval of the History Department advisor, such students may take 3 or 6 credits of coursework in advanced courses from the secondary education sequence.)

Requirements for Admission:

1. A bachelor's degree from an accredited institution acceptable to Hunter College.
2. 18 credits in history with at least one course in each of the following areas: U.S. history, European history, and world or non-Western history.
3. A cumulative grade point average of 2.7 or better and a history grade point average of at least 3.0.

Students who have a 3.0 or better index in history courses but whose cumulative grade point average is below 2.7 may be considered for admission to non-matriculant status. The student so admitted will be directed to take a specific sequence of courses in education totaling 9 credits, must achieve an average of 3.0 or better in these 9 credits, and must then re-apply for admission as a matriculant.

4. One year of college level study of a language other than English.
5. CSCI 100, Introduction to Computer Applications, or its equivalent (or other evidence of computer literacy).

Students who cannot provide evidence of computer literacy will be required to take a computer course. This condition of matriculation may be met by either an undergraduate or a graduate course and must be satisfied within the first three semesters. Courses taken to meet admission conditions will not be counted toward the master's degree.

The MA Program requires:

1. (An additional) 18 credits in history including 3 credits in each of the following areas: U.S. history, European history, world or non-Western history. Students who have completed 6 credits in any one of these areas at the undergraduate level

will have fulfilled this requirement for that particular area, but will still have to complete a total of 18 credits in graduate history courses. Within the 18 credits required in history at least 3 credits should focus on gender in history and 3 credits should focus on an analysis of diversity in the U.S.A.

2. **Nine credits in social studies areas other than history** New York State defines social studies to include cultural anthropology, economics, geography, political science, and sociology. This requirement may be met on either the undergraduate level, taken prior to admission to the graduate program, or as part of the graduate program requirement. Students who fulfill this requirement through undergraduate courses will not have to substitute other graduate courses for this 9-credit requirement.
3. A sequence of 12-21 credits in teacher education courses.
4. A comprehensive examination in history and in education will be the culminating experience for students in the social studies TEP program.

Education Component See the Education Section of this catalog for the required sequence of courses in education.

Total number of credits for the degree 33-48

COURSE LISTINGS

Each course 45 hrs, including conferences, 3 cr.

Ancient History

HIST 700 Ancient Egypt and Near East Significant political, economic, and social development in Egypt and Near East.

HIST 701 History of Greece Significant political, economic, and social development of Greece.

HIST 702 History of Rome Significant political, economic, and social development of Rome.

Medieval History

HIST 708 Byzantine Civilization from Reign of Constantine the Great to Ottoman Conquest Emphasis on transmission of cultural and political heritage of Greece and Rome and on influence of Byzantium among the Slavs.

HIST 711.50 Intellectual History of Europe in Middle Ages Survey of medieval thought and learning to about 1300 AD. Special attention given to natural science and rise of universities.

Western European History

HIST 704 European History from Congress of Vienna to World War I Political, social, and economic developments of major powers from Age of Metternich to World War I.

HIST 710.50 Economic and Social History of Western Europe, 1500-1750 Study of economic and social conditions in pre-industrial Europe.

HIST 712.52 Intellectual History of Modern Europe in 19th and 20th Centuries Political, social, religious, economic, and scientific thought and the arts from romantic era to present.

HIST 713.50 Old Regime in Europe Institutions of Old Regime in Europe and philosophy of Enlightenment to outbreak of revolution in 1789.

HIST 715 Western Europe Between the Two World Wars Political, social, and economic conditions and international relations of countries of western Europe.

HIST 721 Significant Aspects of Spanish History Selected topics in Spanish history from end of Moslem rule through 1898. Special attention to factors behind rise and decline of Spanish power.

HIST 752 Reformation and Counter-Reformation Early modern European history, with emphasis on religious, political, social, and economic changes.

HIST 753 Medicine, Science and Society: Greek Antiquity to 17th Century Topics in the history of European medicine, considered both as scientific knowledge and healing activity, from the time of Hippocrates to that of William Harvey.

HIST 754 Contemporary Europe Study of Europe since 1939; emphasis on political, social, and economic developments; efforts at European unity; Europe and world community.

British History

HIST 716 Evolution of English Constitution Problems course based on source reading.

HIST 717 Development of British Commonwealth Establishment of a second British Empire after 1783, and evolution of Commonwealth status in 19th and 20th centuries.

HIST 718 Significant Aspects of English History Study of selected topics in English history from Middle Ages through 19th century.

HIST 719 Social History of England in 20th Century Early expansion of social legislation and more recent developments in such fields as housing, education, and medicine.

HIST 723 From Mid-Victorian Prosperity to World War I England 1867-1914: political and economic changes, institutional reform, social questions, imperial and military concerns, Irish and foreign policy.

HIST 724.50 England in Age of George III Georgian England, with emphasis on English responses to American and French Revolutions and their impact on English politics.

HIST 724.51 England from Pitt to Gladstone Economic, social, and political developments that fashioned Victorian England. Attention given to radical thought and challenge to aristocratic government.

American History

HIST 727 History of Black People of United States Socio-economic, political, and cultural development of the Black people of US from their African origins to present.

HIST 741.51 Era of American Revolution Survey of origins and course of American Revolution and US during revolutionary era.

HIST 742.50 Nineteenth-Century United States: Early Republic Economic, social, and political aspects of American history from 1789 to 1828.

HIST 742.51 Nineteenth-Century United States: Middle Period Economic, social, and political aspects of American history from 1828 to 1861.

HIST 743 History of Civil War and Reconstruction Era in United States Examination of racial, economic, and political factors leading to war and of postwar adjustment.

HIST 744 Twentieth-Century United States: Progressive Era Study of reform movements and of political, economic, and social developments in US during 20th century.

HIST 745 Twentieth-Century United States: United States as a World Power Diplomatic history from Spanish-American War and acquisition of an empire to cold war.

HIST 746 The Development of 20th-Century American Capitalism from 1885 Transformation of US into modern, urban, industrial state from beginnings of "big business," "big labor," and "big government."

HIST 747 Nineteenth-Century American Reform Movements Reform leaders and activities of major reform organizations.

HIST 749 Representative Americans History of US as seen through biographies of important statesmen, politicians, reformers, and literary figures.

HIST 750 History of the American Labor Movement Changing work experience, organizational efforts, and political activity of working people from the late 18th century to the present.

HIST 755 Growth of the American City Development of the city as physical environment, social experience, political entity, and cultural symbol from the colonial era to the present.

HIST 757 History of Religion in United States Selected topics, including development of main denominational systems, church/state relations, and social thought of the churches.

Latin American History

HIST 751 South America in Modern World South America in 20th century. Class study centers on A-B-C powers; students make collateral studies of other countries.

Jewish History

HIST 740 Modern Jewish Social and Intellectual History Jewish movements and thinkers since 18th century; changing aspects of Jewish identity, new philosophies, impact of anti-Semitism and Zionism.

HIST 748 American Jewish History Jewish life, 17th century to present: immigration, distribution, community structure, leaders, cultural creativity, economic and social integration, minority/majority relations.

Eastern European History

RAS 701 Russia Before Great Reforms of 19th Century

RAS 702 Russia from Great Reforms to Present

RAS 707 Soviet Foreign Policy

HIST 708 Byzantine Civilization from Reign of Constantine the Great to Ottoman Conquest Emphasis on transmission of cultural and political heritage of Greece and Rome and on influence of Byzantium among the Slavs.

Middle Eastern History

HIST 709.50 History of Middle East: Rise of Islam History of Islam and Islamic civilization from Muhammad to Mongol invasions.

HIST 709.51 History of Middle East: History of Ottoman Empire History and culture of the Turks from Seljuqid invasions to World War I.

HIST 709.52 History of Middle East: Middle East in Modern Times Major historical developments in Middle East in 20th century.

Asian and African History

HIST 722.50 History of China: Problems in History of Imperial China Aspects of Chinese history from about 220 BC to 1911; emphasis on bureaucratic, financial, and social problems in selected periods.

HIST 722.51 History of China: Problems in History of 20th-Century China Republican and Communist periods; emphasis on Chinese nationalism, revolution, and modernization.

HIST 726.50 History of Africa: Pre-Colonial History of Africa to 1800 Study of development of Africa's peoples from earliest times to era of European colonial penetration.

HIST 726.51 History of Africa: Africa in 19th and 20th Centuries Examination of major historical forces leading to emergence of independent African nations.

HIST 728 History of Modern West Africa Examination of process of transformation of traditional societies into independent modern states; social, cultural, and intellectual emphasis.

Historiography

HIST 770 Historical Method Introduction to historical methodology and use of historical materials.

HIST 771 Studies in Historical Writing Study of historians from ancient times to present, problems of historical interpretation, and research methods.

Inservice Learning Program

HIST 798 Inservice Learning Prereq: perm grad advisor. Fieldwork in organizations engaged in historical research.

Advanced Research Courses

HIST 760 Colloquium in Ancient History

HIST 761 Colloquium in Medieval History

HIST 762 Colloquium in British History

HIST 763 Colloquium in European History

HIST 765 Colloquium in American History

HIST 766 Colloquium in Latin American History

HIST 768 Colloquium in Asian History

HIST 769 Colloquium in African History

RAS 771 Colloquium in Russian History

HIST 772 Seminars: American History

HIST 773 Seminars: European History—Medieval, British, European

HIST 774 Topics in History

HIST 775 Seminar: Teaching History on College Level

HIST 776 Seminar in Ancient History

HIST 778 Individual Tutorial Research

HIST 779 Thesis Seminar: Independent Research Required of all candidates for MA in history.

Linguistics

Graduate Advisor Julius Purczinsky, West Building room 1317 phone 772-5102

Some members of the Hunter College faculty participate in the MA program in linguistics based at the City University Graduate School and University Center.

Information concerning degree requirements, courses, etc., may be obtained from Professor Arthur J. Bronstein, Executive Officer, PhD/MA Program in Linguistics, CUNY Graduate School and University Center, 33 West 42nd Street, New York, NY 10036. Phone 790-4602.

Although there is not at present any MA program in linguistics at Hunter College, students are encouraged to pursue courses in linguistics related to various disciplines, including anthropology, communication sciences, education, English, and Romance philology. Specializations are offered in anthropology and in teaching English as a second language. Departmental advisors should be consulted for further information.

COURSE LISTINGS**Linguistics**

LING 701 Introduction to General Linguistics I 45 hrs, 3 cr. Offered every semester. Study of linguistics.

LING 773 Theory and Research in Second Language Acquisition 45 hrs, 3 cr. Offered every semester. Descriptive analysis of contrasts between language systems: phonology, morphology, syntax, lexicon, and culture.

May Not Be Offered in 1993-96

LING 702 Introduction to General Linguistics II

LING 741 Old French

LING 755, 756 Introduction to Indo-European Comparative Linguistics

LING 757 Evidence for Pronunciation of Greek and Latin

LING 771 Current Issues in Linguistic Theory

LING 775 Special Studies in Linguistics

Anthropology

ANTH 770 Linguistics

ANTH 771 Seminar in Linguistics

ANTH 772 Phonological Analysis and Theory

ANTH 775 Linguistic Field Techniques and Methods

ANTH 777 Language and Culture

Communication Sciences (School of Health Sciences)

COMSC 607 Phonetics of American English

COMSC 702 Nature of Speech, Language, and Communication Systems

COMSC 705 Speech Science
 COMSC 706 Experimental Phonetics
 COMSC 707 Phonology of Dialects of American English
 COMSC 708 Comparative Phonetics
 COMSC 712 Anatomy and Physiology of Nervous System
 COMSC 769 Communication Acquisition

Education

BILED 770 Second Language Learning and Teaching
 BILED 771 Psychology of Language Learning and Teaching
 BILED 777 Comparative Analysis of English and Spanish
 BILED 778 Practicum in Audio-lingual Methods for Teachers in Bilingual Programs
 EDESL 783 Teaching English as a Second Language
 EDUC 759 Comparative Analysis of English and French
 EDUC 785 Language in Education I
 EDUC 786 Language in Education II

English

ENGL 505 Structure of English Language
 ENGL 607 English Linguistics

Romance Languages

RLNG 701 Introduction to Romance Linguistics I
 RLNG 702 Introduction to Romance Linguistics II

Spanish

SPAN 701 History of Spanish Language

Mathematics and Statistics

Chair Richard C. Churchill, North Building room 1230J phone 772-5300
Graduate Advisor Edward Binkowski, North Building room 1230J
 phone 772-4715

FACULTY

Alberto Baider, Professor; PhD, MIT; Partial Differential Equations, Numerical Analysis
Alvin Baranchik, Associate Professor; PhD, Stanford; Statistical Decision Theory
Edward S. Binkowski, Associate Professor; PhD, Princeton; Data Analysis
Barry M. Cherkas, Associate Professor; PhD, Georgetown; Partial Differential Equations
Daniel S. Chess, Associate Professor; PhD, Princeton; Structure Theorems for Diffeomorphisms
Richard C. Churchill, Professor and Chair; PhD, Wisconsin; Dynamical Systems
Sandra P. Clarkson, Associate Professor; EdD, Georgia; Mathematics Education
Thomas F. Jambols, Associate Professor; PhD, California, Berkeley; Riemann Surfaces, Algebraic Geometry
John Loutau, Associate Professor; PhD, California, Santa Barbara; Non-associative Algebras, Computer Graphics
Jane Matthews, Associate Professor; PhD, NYU; Group Theory
Ada Peluso, Associate Professor; PhD, NYU; Group Theory
Joseph Roitberg, Professor; PhD, NYU; Algebraic Topology
Brian Shay, Associate Professor; PhD, CUNY; Algebraic Topology
William H. Williams, Professor; PhD, Iowa State; Sampling Theory, Time Series, Econometrics

The Department of Mathematical Sciences offers a choice of 2 master's programs, both leading to the master of arts in mathematics. The program in pure mathematics is intended primarily for students interested in studying mathematics on a broad scale. This program is used by students as preparation for both industrial and academic employment as well as preparation for further graduate study. The program in applied mathematics is intended for students interested in applications to business, science, engineering, and industry, as well as teaching and research. In addition, a joint program with the Division of Programs in Education offers the master of arts in secondary education (see Education section).

MASTER OF ARTS—PURE MATHEMATICS PROGRAM

Departmental Requirements for Admission

In addition to the general College requirements for admission, students must meet the following departmental requirements: at least 24 acceptable credits in mathematics with a B average in the courses involved. (In special cases, students who show evidence of unusual mathematical ability, but who do not meet both of the above requirements, will be considered.)

Departmental Requirements for the Degree

Thirty credits from courses chosen as follows:

1. MATH 721-722 Modern Algebra I and II, or MATH 725 Linear Algebra and STAT 722 Theory of Games.
2. MATH 746-747 Theory of Functions of a Real Variable I and II.
3. MATH 742 Theory of Functions of a Complex Variable.
4. MATH 751 General Topology.
5. At least 6 cr chosen from courses at the MATH 700 and/or STAT 700 level.
6. At most 6 cr from courses at the MATH 600 and/or STAT 600 level or from approved courses in another department.
7. Written comprehensive examination covering the courses listed in items 1 and 2 above, and in 2 additional areas.
8. Reading knowledge of French, German, Russian, or other language with a sufficiently rich mathematical literature.

MASTER OF ARTS—APPLIED MATHEMATICS PROGRAM

Departmental Requirements for Admission

The general College admission requirements must be satisfied. The department's requirements are minimal in order to encourage all those who may have the mathematical maturity to handle the program to apply. (Some students, however, may only be accepted into the program conditionally, contingent upon their successful completion of MATH 351/641 Advanced Calculus and MATH 211 Linear Algebra.) Hence, irrespective of past specialization, the only requirement for entrance into the program is an adequate undergraduate record, one semester of advanced calculus, and one semester of linear algebra.

Departmental Requirements for the Degree

Thirty credits from courses chosen as follows:

1. STAT 720, 721 Probability.



2. STAT 711, 712 Statistical Decision Theory.
3. 15 cr in statistics, computer science, mathematics, or relevant areas of application, selected to constitute a cohesive program. Typically, these courses are at the MATH 700 and/or STAT 700 level.
4. STAT 790 Case Seminar. The student, guided by a member of the faculty, prepares a project in applied mathematics. This replaces the comprehensive examination requirement. Students may elect to fulfill this requirement by taking MATH 777, subject to the approval of the graduate advisor.

The student must exhibit a working knowledge of 2 useful computer languages. This replaces the foreign language requirement.

PROGRAM FOR SECONDARY SCHOOL TEACHERS OF MATHEMATICS—MA

The goals of the program for secondary school teachers are to provide an understanding of a substantial part of the existing body of mathematical knowledge and to develop an ability to maintain a balance in the curriculum between specialization in mathematics and education.

The 30 graduate credits required for the MA in this program include 6 credits in professional education (see p. 38) and at least 21 credits in mathematics. (Courses may be selected from those listed.) The remaining 3 credits may be taken in education, mathematics, or in a related field, subject to the approval of the department advisor.

Candidates for this degree are also required to take comprehensive examinations in 4 areas of mathematics. The comprehensive examination includes 4 topics of which 3 must be algebra, analysis, and applied mathematics. Applicants for matriculation in this program must have completed the common professional requirements and at least 24 acceptable credits in mathematics in addition to other general requirements for matriculation.*

*This program is undergoing revision. Please consult with the departmental graduate advisor, North Building room 1230, or the Office of Educational Services, West Building room 1000, for details.

COURSE LISTINGS

Each course 45 hrs, 3 cr, unless otherwise noted.

Pure Mathematics

MATH 621 Introduction to Modern Algebra Prereq: a course in linear algebra. Offered Sp. Introduction to theory of groups and rings.

MATH 623 Theory of Numbers Prereq: a course in linear algebra. Offered Sp '94. Congruences, quadratic residues, elementary diophantine analysis, continued fractions, sums of squares.

MATH 634 Geometries I Prereq: a course in linear algebra. Offered Sp '95. Topics in affine and projective geometry and/or topics in differential geometry.

MATH 641 Advanced Calculus I Prereq: MATH 211 and either MATH 254 or 255. Offered Fa. Mature consideration of theory and processes of calculus, including the Heine-Borel and Bolzano-Weierstrass Theorems.

MATH 642 Introduction to Theory of Functions of a Complex Variable Prereq: a course in advanced calculus. Complex numbers, analytic functions, elementary functions, contour integrals, Cauchy integral theory, series.

MATH 645 Advanced Calculus II Prereq: MATH 641. Offered Sp. Continuation of MATH 641 with an emphasis on functions of several variables.

MATH 653 Calculus on Manifolds Prereq: a course in advanced calculus. Functions on Euclidean space, implicit function theorem, Fubini's Theorem, integration on chains and manifolds.

MATH 661 History of Mathematics The historical development of arithmetic, algebra, geometry, trigonometry, analytic geometry, and calculus.

MATH 671 Fundamental Concepts of Modern Mathematics Prereq: any 2 courses chosen from linear algebra, modern algebra, or advanced calculus I and II. Offered Sp '94. An axiomatic approach to theory of sets; axiom of choice, Zorn's Lemma, transfinite arithmetic.

MATH 721 Modern Algebra I Prereq: an undergraduate course in linear algebra and an undergraduate course in abstract algebra. Offered Sp '94. Semi-groups, groups with operators, rings, modules, field extensions, vector spaces.

MATH 722 Modern Algebra II Prereq: MATH 721. Offered Fa '94. Continuation of MATH 721.

MATH 746 Theory of Functions of a Real Variable I Prereq: 1 yr of advanced calculus. Real numbers, Lebesgue measure, metric and L_p spaces, general measure and integration theory.

MATH 747 Theory of Functions of a Real Variable II Prereq: MATH 746. Continuation of MATH 746.

MATH 772 Seminar Prereq: perm dept. Introduction to methods and literature of mathematical research at master's level.

MATH 773, 774 Independent Study Each 1 cr. Prereq: perm dept.

MATH 775, 776 Independent Study Each 2 cr. Prereq: perm dept.

MATH 777, 778 Independent Study Each 3 cr. Prereq: perm dept.

Applied Mathematics

STAT 612 Mathematical Statistics Prereq: perm dept. Does not count toward MA in pure or applied mathematics. Offered Sp '93. Estimation and hypothesis testing, including t, Chi-squared, F tests. Applications of linear regression and ANOVA.

STAT 632 Nonparametric Statistics 22½ hrs, ½ sem, 1½ cr. Prereq: 11th yr high school mathematics or equiv and 1 sem of elementary statistics. Offered Fa '92. Nonparametric analogs to normal theory methods. Rank tests, tests based on distribution estimates. Multisample methods. Goodness of fit tests. Criteria for choice of method stressed.

STAT 633 Analysis of Categorical Data 22½ hrs, ½ sem, 1½ cr. Prereq: 11th yr high school mathematics or equiv and 1 elementary course in statistics. Offered Fa '94. One-way classifications. Fourfold tables. Two-way contingency tables; partitioning Chi squares. Log-linear models, logit regression. Multidimensional contingency tables.

STAT 634 Regression Analysis 22½ hrs, ½ sem, 1½ cr. Prereq: 11th yr high school mathematics or equiv and 1 sem elem stat. Recognizing non-normal data; transforming for normality and for equal variances. Linear, multiple, and polynomial regression. Multiple linear regression. Model selection.

STAT 638 Special Topics in Applied Statistics 22½ hrs, ½ sem, 1½ cr. Prereq: 11th yr high school mathematics or equiv, 1 elementary course in statistics, and special requirements depending on the particular topic. Topics to be chosen, possibly from among reliability theory, time series, biostatistics, statistical computation, simulation, and model building.

STAT 711 Statistical Decision Theory I Prereq: a course in linear algebra; coreq: advanced calculus or perm dept. Bayes, admissible, and minimax decision rules. Geometric interpretations. Sufficiency. Theory of optimal point estimation. Offered Fa '93.

STAT 712 Statistical Decision Theory II Prereq: STAT 711. Offered Sp '94. Continuation of STAT 711. Hypothesis testing and confidence sets. Optimal tests, invariance. Applications to ANOVA, regression, design, non-parametric inference.

STAT 713 Topics in Statistical Inference I Offered Fa. Topics vary but may be selected from multivariate analysis, regression, experimental design, time series, biostatistics. In Fa '93 topic will be time series analysis.

STAT 714 Topics in Statistical Inference II Offered Sp. Topics selected as in STAT 713. In Sp '94 topic will be education statistics.

STAT 720 Advanced Probability Theory I Prereq: a course in advanced calculus or perm dept. Offered Fa. Non-measure theoretic probability. Combinatorics, random variables, distributions. Moment generation functions. Limit laws.

STAT 721 Advanced Probability Theory II Prereq: STAT 720 or perm dept. Offered Sp '94. Continuation of STAT 720. Recurrent events, Markov chains, diffusion. Introduction to stochastic processes.

STAT 722 Theory of Games Prereq: a course in linear algebra and a course in probability. Utility, zero-sum two person games, minimax theorem or rectangular games. Relation to linear programming; applications to problems in economics and other fields.

STAT 724 Topics in Applied Mathematics I Prereq: perm dept. Offered Fa '94. Topics selected as in STAT 713.

STAT 725 Topics in Applied Mathematics II Prereq: perm dept. Offered Sp '95. Topics selected as in STAT 713.

Courses offered only if student demand is sufficient

MATH 620 Basic Concepts of Algebra
MATH 625 Introduction to Linear Algebra
MATH 628 Number Systems
MATH 640 Topics in Calculus
MATH 650 Basic Concepts of Geometry
MATH 670 Foundations of Mathematics
MATH 725 Linear Algebra
MATH 741 Functional Analysis

MATH 742 Theory of Functions of a Complex Variable

MATH 751 General Topology

STAT 635 Continuous Multivariate Analysis

STAT 636 Sample Surveys

STAT 637 Experimental Design and Analysis of Variance

STAT 681 Numerical Methods

STAT 731 Operations Research I

STAT 732 Operations Research II

STAT 750 Theory of Linear Models

STAT 781 Advanced Numerical Methods

STAT 790 Case Seminar

Music

Chair James S. Harrison, North Building room 1514 phone 772-5020
Director of Graduate Studies George Stauffer, North Building room 1500A phone 772-5020

FACULTY

Peter Basquin, Professor; MMus, Manhattan School of Music; Performance
Ruth DeFord, Associate Professor and Deputy Chair; PhD, Harvard; Music History

Susan Gonzalez, Assistant Professor; MMus, Eastman School of Music; Performance

L. Michael Griffel, Professor; PhD, Columbia; Music History

Barbara L. Hampton, Professor; PhD, Columbia; Ethnomusicology

James S. Harrison, Professor and Chair; MA, Harvard; Theory

Susan Kagan, Adjunct Associate Professor; PhD, CUNY; Music History and Performance

Louis Martin, Professor; MMus, Juilliard School; Theory

Paul F. Mueller, Associate Professor; DMA, Indiana; Performance

George B. Stauffer, Professor; PhD, Columbia; Music History

Jewel Thompson, Associate Professor; PhD, Eastman School of Music; Theory

Melinda Wagner, Assistant Professor; PhD, Pennsylvania; Composition

Clayton J. Westermann, Professor; MMus, Yale; Performance and Music Education

MASTER OF ARTS

The MA program in music offers students an opportunity to grow as musicians by refining and augmenting their skills as scholars, teachers, and performers. The department encourages its graduate students to engage in independent research projects and to take courses both of a broad scope and of a detailed nature. The latter courses mark the beginning of professional specialization. Performance students are permitted to take private lessons, for up to 12 points of credit, with a teacher of their choice approved by the department or with one of the internationally renowned instructors who serve as performance associates on the faculty. Recent instructors have included Russell Oberlin (voice), Peter Basquin and Herbert Stessin (piano), André Emelianoff (cello), Elizabeth Mann (flute), German Diez (piano), Jon Klibonoff (piano), and Shirlee Emmons (voice).

The MA degree is offered either as a terminal degree or as the first year of work toward the PhD degree within the City University. See *Bulletin of the Graduate School* for a description of the PhD program and the complete list of courses.

The Department of Music offers courses of study leading to the MA degree, with concentrations in music history, ethnomusicology, composition, and performance.

Departmental Requirements for Admission

In addition to the general requirements for admission to graduate degree programs, applicants must have completed an undergraduate major in music (with a minimum of 24 credits) or the equivalent. They must have completed at least 2 semesters of music history, 3 semesters of harmony and counterpoint, 2 semesters of solfège, and one semester of analysis. They must also have at least elementary facility at the keyboard and a reasonable mastery of an instrument (which may be a keyboard instrument) or voice. In addition, applicants planning to concentrate in performance must pass a preliminary audition, normally given in December and May of each year, and those planning to concentrate in composition must submit to the graduate advisor a portfolio of recently completed compositions.

Applicants with deficiencies in any of the above requirements should consult the department's graduate advisor. Credit toward the MA degree may not be gained in courses taken to make up undergraduate deficiencies.

Departmental Requirements for the Degree

Courses Each candidate must complete a program of study of at least 30 credits, planned in consultation with the graduate advisor. Graduate courses in other departments may be credited toward the degree in music with the approval of the graduate advisor, but they may in no case exceed 6 credits. Six credits of relevant graduate work done at other institutions (or 9 credits, if the work is done at branches of The City University of New York) may be credited, with the approval of the graduate advisor.

The following programs are recommended for students concentrating in composition, ethnomusicology, music history, and performance. Modifications to these programs may be made in consultation with the graduate advisor.

Composition		Credits
Music Courses:	MUS 731 (2 times)	6
	MUS 742	3
	MUS 751, 752	6
	One additional seminar (highly recommended: MUS 729 or 740)	3
	MUS 799	3
	Elective Courses* (may include MUS 731 taken for third time)	9
		<hr/> 30

Ethnomusicology

Music Courses:	MUS 700	3
	MUS 751, 752	6
	MUS 753	3
	MUS 775, 776	6
	MUS 798	3
Anthropology Courses:	ANTH 701	3
	ANTH 707	3
Elective Courses*		3
		<hr/> 30

*Courses selected in consultation with the graduate advisor.

Music History

Music Courses:	MUS 700	3
	MUS 742	3
	MUS 751, 752	6
	MUS 760	3
	MUS 798	3
Elective Courses*	(may include MUS 742 or 760 taken for a second time)	12
		<hr/> 30

Performance

Music Courses:	MUS 742 or 760	3
	MUS 751, 752	6
	MUS 781-784	12
	MUS 789	3
Elective Courses*	(may include Orchestra, Chamber Choir, Chamber Music Workshop, or Performance Class in Vocal Literature for the Solo Voice, taken under the MUS 791-792 rubric, with permission of the graduate advisor)	6
		<hr/> 30

Foreign Language The candidate must demonstrate a reading knowledge of a foreign language, preferably French, German, or Italian. The foreign language examination must be passed before a student may proceed beyond 18 credits.

Proficiency Examination Students admitted to the program must take a proficiency examination during the first 2 semesters of matriculation in order to remain in the program. This examination will test competence in music theory, music history and literature, and applied skills. Deficiencies revealed by the proficiency examination must be made up by studying the relevant subject matter and passing a reexamination. The proficiency examination requirement must be fulfilled before a student may proceed beyond 18 credits.

Thesis A master's essay (MUS 798), a major composition (MUS 799), or a public recital (MUS 784) is required of each student. In the case of a thesis or composition, the candidate, upon completion of the courses of study and after approval by the Graduate Faculty Committee, will present a public lecture on his or her work.

PROGRAM FOR SECONDARY SCHOOL TEACHERS OF MUSIC (TEP)—MA**Departmental Requirements for Admission**

In addition to the general requirements for admission to the graduate teacher education program, applicants must have completed an undergraduate major in music (with a minimum of 24 credits) or the equivalent. They must have completed at least 2 semesters of music history, 3 semesters of harmony and counterpoint, 2 semesters of solfège, and one semester of analysis.

*Courses selected in consultation with the graduate advisor.

They must have at least elementary facility at the keyboard and reasonable mastery of an instrument (which may be a keyboard instrument) or voice.

Applicants with deficiencies in any of the above requirements should consult the department's graduate advisor. Credit toward the MA may not be gained in courses taken to make up undergraduate deficiencies.

Departmental Requirements for the Degree

Courses Students in this curriculum must complete a minimum of 30 credits, as follows:

	Credits
Recommended Music Courses:	
MUS 677 or 678	3
MUS 742 or 760	3
MUS 751, 752	6
MUS 789	3
MUS 791 (TEP Project)	1
Elective Music Courses (excluding MUS 798 and 799)	6
Prescribed Education Courses (selected in consultation with the advisor in education)*	8
	<hr/> 30

Proficiency Examination Students admitted to the program must take a proficiency examination during the first 2 semesters of matriculation in order to remain in the program. This examination will test competence in music theory, music history and literature, and applied skills. Deficiencies revealed by the proficiency examination must be made up by studying the relevant subject matter and passing a reexamination. The proficiency examination requirement must be fulfilled before a student may proceed beyond 18 credits.

TEP Project A project involving research is required of each student in the teacher education program. On completion of the courses of study and after approval of the project by the Graduate Faculty Committee, a candidate will be examined orally on the topic of the project and related issues.

A new program is being planned to serve applicants who lack provisional certification.

COURSE LISTINGS

Each course 45 hrs, 3 cr, unless otherwise noted.

MUS 700 Music Bibliography and Research Techniques Study of sources and bibliographical methods as applied to musical material.

MUS 706 Renaissance Notation Transcription and editing of music of Renaissance, including tablatures.

MUS 726 Advanced Counterpoint and Fugue 30 hrs + conf, 3 cr. Prereq: simple counterpoint and harmony through altered chords. May be taken twice for credit. Extended practice in devices of imitation; canon; invertible counterpoint; fugue.

MUS 729 Contemporary Compositional Techniques May be taken twice for credit. Analysis and practical work in techniques and media of contemporary composition.

MUS 731 Composition 30 hrs + conf, 3 cr. Prereq: undergraduate course in composition or perm instr. May be taken 4 times for credit. Practice in composition for various media.

MUS 740 Seminar in Music Theory and Analysis May be taken 3 times for credit. Speculative theory, aesthetics, and scientific dimensions of music; detailed analysis of works relevant to theoretical problems under investigation. Topics to be announced.

MUS 742 Seminar in Style Criticism May be taken twice for credit. An intensive study of a small number of closely related works of music. Topics to be announced.

MUS 751, 752 Analysis of Musical Styles Series of perennial compositional procedures and series of analytical essays that disclose essential stylistic features and develop facility in analysis. Open to non-music majors by permission only.

MUS 753 Transcription and Analysis in Ethnomusicology Critical examination and application of contemporary techniques to selected examples from various cultures.

MUS 760 Seminar in Music History May be taken twice for credit. Problems in research and analysis in selected areas of music history. Topics, to be announced, are drawn from the 6 principal historical eras.

MUS 775, 776 Seminar in Ethnomusicology Study of folk music and of traditional music of non-Western cultures.

MUS 777.50 African Music Prereq: MUS 775 or perm instr. Study and analysis of musical styles of Africa, with attention given to musico-cultural factors.

MUS 777.51 Folk Music of United States Prereq: MUS 775 or perm instr. Study and analysis of a variety of musical folk traditions in United States, as seen within cultural context.

MUS 777.52 Folk Music of Europe Prereq: MUS 775 or perm instr. Study and analysis of musical styles and functions found within folk cultures of Europe.

MUS 777.53 Music of Middle East and India Prereq: MUS 775 or perm instr. Study and analysis of art music and folk music of Middle East and India, with attention given to notational systems and musico-cultural factors.

MUS 777.54 Music of East Asia Prereq: MUS 775 or perm instr. Study and analysis of art music and folk music of Far East, with attention given to notational systems and musico-cultural factors.

MUS 777.55 Folk Music of Latin America Prereq: MUS 775 or perm instr. Study and analysis of folk music styles of Latin America, with attention given to its African, Indian, and Iberian cultural traditions.

MUS 777.56 Seminar in Urban Ethnomusicology Prereq: MUS 775 or perm instr. Study and analysis of urban music.

MUS 781, 782, 783, 784 Private Study in Instrument or Voice 3 cr each.

MUS 789 Seminar in Music Performance Preparation, rehearsal, and performance of small and large ensemble works. Emphasis on researching and analyzing the music being studied. May be taken twice for credit.

MUS 791-794 Independent Study 8 cr maximum. Prereq: perm Graduate Faculty Committee, obtained by announced deadline during previous semester. Special projects in performance, music history, ethnomusicology, music theory, or composition under approved professional guidance.

MUS 791 1 cr. May be taken 4 times for credit.

MUS 792 2 cr. May be taken 4 times for credit.

MUS 793 3 cr. May be taken twice for credit.

MUS 794 4 cr. May be taken twice for credit.

MUS 798 Thesis in Music History or Ethnomusicology 3 cr. Individual research under supervision.

MUS 799 Thesis in Composition 3 cr. Individual study of composition under supervision.

Teacher Education Program

MUS 677 Workshop in Instrumental Music Organization and administration of school instrumental program from grades 4 through 12; conducting and teaching techniques; materials for several types of ensemble.

MUS 678 Workshop in Choral Music Organization and administration of choral program in secondary schools; conducting and choral techniques; materials for several age groups.

*Specific courses to meet this requirement will be found in the section on Professional Content for the MA in Secondary Education (see Education section).

Nursing

The Hunter-Bellevue School of Nursing
425 East 25th Street, New York, NY 10010

Dean Evelyn C. Gioiella, room W608
phone 481-4312

Director of Graduate Studies Mary T. Ramshorn, room W506
phone 481-4465

FACULTY

Elsie Bandman, Professor Emerita; EdD, Columbia; Psychiatric Nursing, Health Care Ethics
Elizabeth Ann M. Barrett, Associate Professor; PhD, NYU; Psychiatric Nursing; Nursing Research, Nursing Science
Steven L. Baumann, Assistant Professor; PhD, Adelphi; Psychiatric Nursing
Carole Birdsall, Associate Professor; EdD, Columbia; Critical Care Nursing
D. Karl Davis, Professor; EdD, NYU; Gerontological Nursing, Pharmacology
Cynthia Degazon, Associate Professor; PhD, NYU; Nursing Administration
Gloria Essoka, Associate Professor; PhD, NYU; Maternal and Child Health Nursing
Evelyn C. Gioiella, Professor and Dean; PhD, NYU; Gerontological Nursing, Community Health
Joyce M. Hope, Associate Professor; MS, Hunter; Gerontological Nursing, Social Policy, Social Gerontology
Nancy E. Jones, Assistant Professor; DrPH, Columbia; Community Health Nursing, Pediatric Nursing
Jo Kirsch, Associate Professor; EdD, Columbia; Nursing Administration, Management
Margaret Lunney, Associate Professor; PhD, NYU; Medical-surgical Nursing, Community Health Nursing
Margaret M. Magnus, Professor; PhD, Catholic U; Nursing Research & Theory, Educational Administration
Violet Malinski, Associate Professor; PhD, NYU; Psychiatric Nursing, Nursing Research & Theory
Mary Anne McDermott, Assistant Professor; PhD, NYU; Medical-surgical Nursing, Gerontological Nursing
Janet N. Natapoff, Professor; EdD, Columbia; Maternal and Child Health Nursing, Nursing Research
Susan Neville, Assistant Professor; PhD, Adelphi; Medical-surgical Nursing, Nursing Research
Donna M. Nickitas, Assistant Professor; PhD, Adelphi; Nursing Administration
Kathleen A. Nokes, Associate Professor; PhD, NYU; Community Health Nursing; HIV/AIDS
Joyce Pulcini, Associate Professor; PhD, Brandeis; Social Policy, Pediatric/Family Nurse Practitioner Education & Research
Mary T. Ramshorn, Professor; EdD, Columbia; Psychiatric Nursing, Nursing Research & Theory, Administration
Diane Rendon, Associate Professor; EdD, Columbia; Psychiatric Nursing, Gerontological Nursing
Maura Ryan, Associate Professor; PhD, Univ. of Penn; Gerontological Nursing; Research
Joan Sayre, Assistant Professor; PhD, New School; Psychiatric Nursing
Cynthia Sculco, Associate Professor; EdD, Columbia; Medical-surgical Nursing, Cardiac Rehabilitation & Research
Catherine Wondolowski, Associate Professor; MEd, Columbia; Gerontological Nursing, Social Policy Research

MASTER OF SCIENCE IN NURSING

The Hunter-Bellevue School of Nursing offers an NLN-accredited program leading to the master of science degree. The program

provides an advanced body of nursing knowledge that builds on the knowledge and competencies of baccalaureate education in nursing. The program is designed to prepare graduates to assume leadership positions and make significant contributions to the quality of health care through advanced practice nursing roles in primary health care, clinical specialties and nursing administration.

Seven specializations in advanced practice nursing are available: community health nursing, maternal-child nursing, medical-surgical nursing, psychiatric nursing, nursing administration, and gerontological nurse practitioner and pediatric nurse practitioner. A dual degree option, MS in community health nursing and MPH in community health education is available.

Each specialization provides the opportunity for interested students to complete a sub-specialization in the care of HIV/AIDS clients through three courses and a clinical practicum.

Qualified applicants are admitted for both the fall and spring semesters. Students may attend either part-time or full-time. Most nursing courses are offered in the late afternoon and evening to accommodate the working student. Non-matriculated students may register for up to 12 cr. They must have a cumulative GPA of 3.0 at the end of each semester to register for nursing courses.

Admission Requirements

In addition to the graduate admission requirements of Hunter College, students seeking matriculation in the School of Nursing must meet the following requirements:

1. Completion of NLN-accredited baccalaureate program in nursing with a GPA of 3.0.

Students whose undergraduate GPA in nursing is below 3.0 can be considered for admission as non-matriculants. If they complete 9-12 graduate nursing credits with a cumulative GPA of 3.0, they can be considered for admission to matriculation. These credits will consist of at least one core course each semester. Additional credits will consist of 600-level elective courses or beginning specialization courses for students that have met the prerequisites and/or corerequisites. While this will not assure admission, it will be accepted in lieu of the 3.0 undergraduate GPA requirement.

2. License and current registration to practice professional nursing in New York State.
3. Completion of a basic statistics course or its equivalent. Applicants not fulfilling this requirement may be admitted on condition that they complete a statistics course during their first semester.
4. Applicants for dual degree MS and MPH also meet requirements for admission to Community Health Education—MPH

Degree Requirements

1. Completion of approved program of study consisting of a minimum of 42 cr (community health nursing, medical-surgical nursing, psychiatric nursing, maternal-child nursing, and nursing administration), 48 cr (gerontological nurse practitioner program), or 57 cr (dual degree option MS and MPH).
2. Completion of NURS 799 (Nursing Research III).
3. Completion of the program of study within 5 years from the date of matriculation.

Course requirements for the master's degree are divided into 3 components: core, specialization, and cognate-electives. Core courses, which are required of all students, deal with social, theoretical, research, practice, and ethical issues affecting nursing and health care delivery. The specialization component includes advanced knowledge and clinical practice in nursing. The cognate-elective component, drawn from nursing and other disciplines, supports scholarly inquiry, practice, and research in nursing. These courses are selected from the offerings of other graduate programs at Hunter College as well as from nursing.

Core Courses (15-18 cr)	Credits
NURS 601 Societal Factors Related to Wellness*	3
NURS 700 Theoretical Foundations of Nursing Science	3
NURS 701 Theoretical Foundations of Role Development	3
NURS 702 Nursing Research I	3
NURS 703 Nursing Research II	3
NURS 799 Nursing Research III	3

Community Health Nursing (42 cr)

Specialization Coordinator: Margaret Lunney

This specialization prepares graduates to assume a leadership role in community health nursing in a variety of health care settings, including home care, public health, and private agencies. Through course work, practica, and carefully selected electives, students develop an area of concentration related to an aggregate/community, for example, family nursing, home health care, school health, occupational health. Using nursing process, students apply nursing and public health theories and research to the study of community as client. In addition to the required core (15 cr), students take:

	Credits
NURS 771 Community Health Nursing I	3
NURS 772 Community Health Nursing II	3
NURS 773 Community Health Nursing III	3
NURS 774 Practicum in Community Health Nursing	3

Health Science Courses

SHS 600 Bio-statistics	3
SHS 700 Principles of Epidemiology	3
EOHS 700 Environmental Health and Safety	3
Cognate-electives	6

Community Health Nursing/Community Health Education (57 cr)

Specialization Coordinator: Margaret Lunney

The dual degree option provides students with additional knowledge of public health sciences with emphasis on community health education. Students are required to complete the following courses.

Nursing Core Courses	Credits
15	
Nursing Specialty Courses	
NURS 771 Community Health Nursing I	3
NURS 772 Community Health Nursing II	3
NURS 773 Community Health Nursing III	3
NURS 774 Practicum in Community Health Nursing	3

School of Health Science Core Courses

SHS 600 Biostatistics	3
SHS 601 Principles of Health Care Administration	3
SHS 700 Principles of Epidemiology	3
EOHS 700 Environmental Health and Safety	3

Community Health Education Courses

COMHE 701 Group Processes	3
COMHE 702 Theory and Practice in Health Communication	3
COMHE 740 Community Organization for Health	3
COMHE 745 Seminar in Current Health Problems: Health Education and Public Policy	3

Elective Concentration	
Nursing and/or Community Health Education	6

Maternal-Child Nursing (42 cr)

Specialization Coordinator: Janet N. Natapoff

This specialization prepares graduates to assume a leadership role in maternal and/or child nursing in a variety of health care settings including homes, clinics, schools, and acute care facilities. Students learn to apply selected theories and research findings to clinical practice through course work and in a series of clinical practica. Students are encouraged to select an area of concentration—such as care of the pregnant adolescent, the homeless family, or the acutely ill child—in which the advanced practice role will be developed. Students can also participate in community based programs aimed at serving target populations and promoting policy changes in the health care delivery system. In addition to the required core (18 cr) students take:

	Credits
NURS 614 Environmental Influences on the Fetus	3
NURS 726 Maternal-Child Nursing I	3
NURS 727 Maternal-Child Nursing II	3
NURS 728 Advanced Practice in Maternal-Child Nursing	3
NURS 729 Practicum in Maternal-Child Nursing	3
Cognate-electives	9

Pediatric Nurse Practitioner Program (42 cr)

Specialization Coordinator: Janet N. Natapoff

This specialization prepares graduates to function in the nurse practitioner role to provide primary health care for children from birth through adolescence. Students share the same specialization courses with colleagues in the maternal-child specialization, enabling them to apply selected theories and research to the practitioner role. The practitioner courses emphasize health promotion and protection, primary care and case management with selected populations through classroom, college laboratory and clinical practice experiences. In addition to the required core courses (15 cr), students take:

	Credits
NURS 614 Environmental Influences on the Fetus	3
NURS 615 Health Assessment of Infants, Children and Adolescents	3
NURS 616 Advanced Pharmacology for Neonatal and Pediatric Nurse Practitioners	3
NURS 724 Primary Health Care of Infants and Young Children	3
NURS 725 Primary Health Care of School-Age Children and Adolescents	3
NURS 726 Maternal-Child Nursing I	3
NURS 727 Maternal-Child Nursing II	3
NURS 728 Advanced Practice in Maternal-Child Nursing	3
NURS 729 Advanced Practicum in Maternal-Child Nursing	3

*Not required for nursing administration, gerontological nurse practitioner program and community health nursing.

Medical-surgical Nursing (42 cr)

Specialization Coordinator: Cynthia Sculco

This specialization prepares graduates to assume a leadership role in a variety of health care settings from acute care to home care. Students learn to apply selected theories and research to clinical practice. In these practicum experiences they develop and implement an advanced practice role. Students facilitate the promotion, maintenance, and restoration of optimum wellness of individuals, groups, families, and communities. In addition to the required core (18 cr) students take:

	Credits
NURS 710 Biobehavioral Patterns of Adults: Nsg I	3
NURS 711 Biobehavioral Patterns of Adults: Nsg II	3
NURS 712 Biobehavioral Patterns of Adults: Nsg III	3
NURS 713 Biobehavioral Patterns of Adults: Nsg Pract	3
Cognate-electives	12

Psychiatric Nursing (42 cr)

Specialization Coordinator: Violet M. Malinski

This specialization prepares graduates to assume a leadership role in community and institutional services providing psychiatric-mental health care to individuals, groups, and families. Students and graduates participate in such developing fields as liaison nursing and hospice care and may select a subspecialty such as geropsychiatric nursing. Students apply selected theories and research to clinical practice. In addition to the required core (18 cr) students take:

	Credits
NURS 720 Psychobehavioral Patterns of Adults: Nsg I	3
NURS 721 Psychobehavioral Patterns of Adults: Nsg II	3
NURS 722 Psychobehavioral Patterns of Adults: Nsg III	3
NURS 723 Nursing Practicum in Psychobehavioral Patterns of Adults	3
Cognate-electives	12

Nursing Administration (42 cr)

Specialization Coordinator: Donna Nickitas

This specialization prepares graduates to assume leadership positions as nurse managers in the health care delivery system. In classes and supervised practice, emphasis is placed on developing and applying theories and skills of management in planning, organizing, directing, and controlling human and fiscal resources in the health care delivery system. In addition to the required core (15 cr) students take:

	Credits
NURS 710 Biobehavioral Patterns of Adults: Nsg I*	3
or	
NURS 720 Psychobehavioral Patterns of Adults: Nsg I*	3
or	
NURS 726 Maternal-Child Nursing I*	3
or	
NURS 771 Community Health Nursing*	3
NURS 735 Leadership and Management in Nursing	3
NURS 738 Fiscal Resource Management in the Nursing Organization	3
NURS 739 Human Resource Management in the Nursing Organization	3
NURS 740 Administration of Nursing Organization	3
NURS 741 Practicum in Nursing Administration	3
Cognate-electives	9

*Or one equivalent clinical course.

Gerontological Nurse Practitioner Program (48 cr)

Specialization Coordinator: Maura Ryan

This specialization prepares graduates to function in leadership positions and the nurse practitioner role in providing primary health care to elderly individuals, groups, and families in the community and in a variety of health care facilities. Emphasis is placed on case management and collaborative practice with health care and social service providers. Students learn to apply select theories and research in clinical practice. In addition to the required core (15 cr), students take:

	Credits
NURS 750 Pathophysiology and Pharmacology of Aging	3
NURS 751 Physical Assessment of Aging	3
NURS 754 Psycho-Social Behavior Patterns of Older Adults	3
NURS 755 Behavioral Patterns of Older Adults: Nursing I	3
NURS 756 Behavioral Patterns of Older Adults: Nursing II	3
NURS 757 Practicum in Advanced Gerontological Nursing I	3
NURS 758 Behavioral Patterns of Older Adults: Nursing III	3
NURS 759 Practicum in Advanced Gerontological Nursing II	3

Cognate-electives (9 cr) including:

NURS 604 Nutrition in Aging	3
or	
NURS 770 Nursing Care Management for Elderly Clients with Psychobehavioral Alterations	3
or	
Approved elective	3

COURSE LISTINGS*Each course 45 hrs, including conferences, 3 cr, unless otherwise noted*

Courses on the 600 level may be taken by non-matriculated students with departmental permission.

Nursing elective offerings vary from semester to semester. For specific elective offerings, students should consult each semester's *Schedule of Classes*. Application for practicum experience must be submitted one semester prior to registration for clinical courses.

NURS 601 Societal Factors Related to Wellness Interdisciplinary exploration and evaluation of individual and environmental factors relating to changing levels of wellness in adult consumer systems.

NURS 604 Nutrition in Aging 30 hrs theory, 45 hrs pract, cognate-elective. Analysis of nutrient needs and dietary patterns of older adults with nutrition management and teaching integrated into theory and practicum.

NURS 606 Nursing Issues: HIV Infection/AIDS Analysis of prevention and public policy issues related to the HIV pandemic and the response of nursing and health-related organizations.

NURS 614 Environmental Influences on the Fetus Examines environmental influences with emphasis on nursing's role in health promotion and health protection.

NURS 615 Health Assessment of Infants, Children and Adolescents 15 hrs lecture, 90 hrs lab, 3 cr. Focuses on application of assessment skills needed to provide primary health care for infants, children and adolescents. Role development is emphasized during lectures and supervised practicum experiences.

NURS 616 Advanced Pharmacology for Neonatal and Pediatric Nurse Practitioners Focuses on pharmacology as part of advanced nursing practice with infants, children and adolescents, its place in primary health care, and drugs used to manage common health problems.

NURS 617 Health Appraisal of Adults Theory and practice in comprehensive assessment of biobehavioral and psychobehavioral health patterns of adults.

NURS 619 Family and Community Patterns of Wellness Analysis of health-related structure, functions, and behavioral patterns of family and community systems.

NURS 642 Psychobiological Aspects of Aging Analysis of biobehavioral and psychobehavioral patterns of aged persons.



NURS 664 Legal Issues in Nursing This course examines the interface between nursing and the law. Legal issues are analyzed from a nursing perspective.

NURS 674 Nursing Management of the Chronically Mentally III An examination of the origins, development, research into, and manifestations of chronic mental illness with a focus on nursing management.

NURS 675 Oncology Nursing Exploration of empirical bases related to the adult client with cancer to provide a framework for clinical decision making and nursing intervention at various levels of wellness.

NURS 700 Theoretical Foundations of Nursing Science Examination of development and formulation of nursing theory through systematic exploration of concepts of theory and theory-building.

NURS 701 Theoretical Foundations of Role Development in Nursing Prereq: NURS 700 and 1 clinical nursing course. Critical analysis of role theories related to leadership behaviors in nursing practice, education, administration, and primary health care.

NURS 702 Nursing Research I Prereq or coreq: NURS 700 and competence in basic statistics. Analysis of research process to formulate testable hypotheses concerning the biobehavioral and psychobehavioral patterns of clients.

NURS 703 Nursing Research II Prereq: NURS 702 and 1 clinical nursing course. Development of research design for testing hypotheses having relevance for nursing practice, education, administration, and primary health care.

NURS 707 Nursing of Persons with HIV Infection Prereq: NURS 606 Prereq or coreq: NURS 700. Analysis and evaluation of nursing strategies at the level of secondary prevention with persons who are HIV positive in order to assist them to maintain optimum levels of wellness.

NURS 708 Nursing of Persons with AIDS Prereq: NURS 606, Prereq or coreq: NURS 700. Analysis and evaluation of nursing strategies at the level of tertiary prevention with persons with AIDS in order to assist them to maintain and restore health.

NURS 709 Nursing Diagnosis and Related Pathophysiology Application of theoretical system of nursing diagnosis within an investigation of the wellness variations common to biobehavioral patterns in adults.

NURS 710 Biobehavioral Patterns of Adults: Nursing I 30 hrs theory, 45 hrs pract, 3 cr. Prereq or coreq: NURS 601, 700. Exploration of theoretical, empirical, and scientific basis of biobehavioral patterns of individuals and groups, alterations in illness. Guided learning experiences in variety of health care settings.

NURS 711 Biobehavioral Patterns of Adults: Nursing II 30 hrs theory, 45 hrs pract, 3 cr. Prereq: NURS 710. Study of biobehavioral levels of wellness of families and communities. Guided learning experiences in a variety of community health settings.



NURS 712 Biobehavioral Patterns of Adults: Nursing III Prereq: NURS 711. Synthesis of advanced theoretical and empirical sciences as basis for clinical specialization and leadership role in medical-surgical nursing.

NURS 713 Practicum in Biobehavioral Patterns of Adults: Nursing III 135 hrs, 3 cr. Coreq: NURS 712. Preceptor-supervised practicum emphasizing synthesis and application of theoretical foundations of biobehavioral nursing to role of the clinical specialist.

NURS 714 Critical Care Nursing Application of theoretical knowledge, drawn from nursing and biopsychosociocultural sciences, to the nursing care of clients in life-threatening situations requiring critical care nursing.

NURS 716 Nursing Informatics Prereq: 1st level specialization course. Integration and use of computer/information technology in support of direct client care, management and administration of nursing care, nursing research and nursing education.

NURS 720 Psychobehavioral Patterns of Adults: Nursing I 30 hrs theory, 45 hrs pract, 3 cr. Prereq or coreq: NURS 601, 700. Examination of theoretical and empirical bases of psychobehavioral patterns of wellness and dysfunctions in individuals and in groups. Guided learning experiences in selected psychiatric mental health settings.

NURS 721 Psychobehavioral Patterns of Adults: Nursing II 30 hrs theory, 45 hrs pract, 3 cr. Prereq: NURS 720. Examination of psychobehavioral patterns of interaction among family and community and environmental factors that influence levels of wellness. Guided learning experiences in community mental health settings.

NURS 722 Psychobehavioral Patterns of Adults: Nursing III Prereq: NURS 721. Synthesis of advanced theoretical and empirical sciences as basis for clinical specialization and leadership role in psychiatric nursing.

NURS 723 Nursing Practicum in Psychobehavioral Patterns of Adults III 135 hrs, 3 cr. Coreq: NURS 722. Preceptor-supervised practicum emphasizing synthesis and application of theoretical foundations of psychobehavioral nursing to role of clinical specialist.

NURS 724 Primary Health Care of Infants and Young Children 30 hrs theory, 45 hrs practicum, 3 cr. Prereq: NURS 615, 726. Prereq or coreq: NURS 616; Coreq: NURS 727. Examines primary health care as an advanced practice role with infants and young children with emphasis on decision making and clinical management to promote health, prevent illness/injury and restore health.

NURS 725 Primary Health Care of School-age Children and Adolescents 30 hrs lecture, 45 hrs practicum, 3 cr. Prereq: NURS 724. Examines primary health care as an advanced practice role with school-age children and adolescents with emphasis on decision making and clinical management to promote health, prevent illness/injury and restore health.

NURS 726 Maternal-Child Nursing I 30 hrs theory, 45 hrs pract, 3 cr. Prereq or coreq: NURS 601, 700. An exploration of the theoretical, empirical, and humanistic bases for patterns of interaction between childbearing women and their families, the environment, and nursing. Guided learning experiences in a variety of health care settings.

NURS 727 Maternal-Child Nursing II 30 hrs theory, 45 hrs pract, 3 cr. Prereq: NURS 726. An exploration of the theoretical, empirical, and humanistic bases for patterns of interaction between children and their families, and the child-rearing family and its environment, and nursing. Guided learning experiences in a variety of health care settings.

NURS 728 Advanced Practice in Maternal-Child Nursing Prereq: NURS 727. Synthesis of advanced theoretical foundations as a basis for specialized nursing practice with childbearing and childrearing families.

NURS 729 Advanced Practicum in Maternal-Child Nursing 135 hrs, 3 cr. Prereq or coreq: NURS 728. Preceptor-supervised practicum emphasizing synthesis and application of theoretical foundations of maternal-child nursing to advanced practice nursing.

NURS 730 Instructional Design in Nursing Education Prereq: NURS 700, 701, 702, 703. Examination of theoretical models and empirical factors that affect teaching-learning process in educational settings in nursing.

NURS 731 Practicum in Nursing Education 135 hrs, 3 cr. Coreq: NURS 730. Preceptor-supervised practicum emphasizing utilization of practice-related role of nurse-educator and application of theoretical formulations in educational settings in nursing.

NURS 735 Leadership and Management in Nursing Prereq or coreq: NURS 700. Leadership and management theories with application to nursing administration.

NURS 738 Fiscal Resource Management in the Nursing Organization Prereq: NURS 735. Analysis of theory and practice in nursing's financial management systems within health care delivery systems.

NURS 739 Human Resource Management in the Nursing Organization Prereq: NURS 701, 735. Analysis of human resource management in health care organization for nurse managers.

NURS 740 Administration of Nursing Organization Prereq: NURS 738, 739; coreq: NURS 741. Analysis and application of administrative theory and process. Issues related to position of nurse manager in formal design of health care organizations.

NURS 741 Practicum in Nursing Administration 135 hrs, 3 cr. Prereq: NURS 738, 739; coreq: NURS 740. Preceptor-supervised practicum emphasizing role of nurse who functions as middle manager in variety of health care settings including medical centers, community agencies, and long-term care settings. Emphasis on synthesis and application of management theories and development of leadership behavior.

NURS 750 Pathophysiology and Pharmacology of Aging Prereq or coreq: NURS 700, 702; coreq: NURS 751. Analysis of physiologic functions and primary deviations in biobehavioral patterns of aging; emphasis on gerontological nursing and pharmacological management.

NURS 751 Physical Assessment of Aging 30 hrs lect, 45 hrs pract, 3 cr. Prereq or coreq: NURS 700, 702; coreq: NURS 750. Application of multi-dimensional assessment strategies for comprehensive health care management of older adult clients and their families. Role development and primary care practice emphasized in preceptored practicum experiences.

NURS 754 Psycho-Social Behavioral Patterns of Older Adults Prereq: NURS 700. Integration of the theoretical foundations of biological, psychological, social, and cultural patterns of aging that form the assessment data base for the case management of older adults, families, and communities.

NURS 755 Behavioral Patterns of Older Adults: Nursing I 30 hrs theory, 45 hrs pract, 3 cr. Prereq: NURS 700, 702, 750, 751; coreq: NURS 701, 703, 754. Development of case management strategies to promote, maintain, or restore optimum levels of wellness in older adults and families. Preceptored practicum in ambulatory settings.

NURS 756 Behavioral Patterns of Older Adults: Nursing II Prereq: NURS 701, 703, 754, 755; coreq: NURS 757, 799. Development of a framework of community practice roles of leadership and accountability in delivery of primary health care to older adults.

NURS 757 Practicum in Advanced Gerontological Nursing I 135 hrs pract, 3 cr. Prereq: NURS 701, 703, 754; coreq: NURS 756, 798/799. Application of

advanced theoretical sciences in case management with focus on restoration, maintenance, and promotion of wellness of older adults, families, and groups. Guided learning experience in community settings.

NURS 758 Behavioral Patterns of Older Adults: Nursing III Prereq: NURS 756, 757; coreq: NURS 759. Study of how multi-level health systems of long-term care and associated linkage networks interact and affect older adults, their families, and the community. Analysis of long-term care delivery services for older adults with acute and/or chronic health problems.

NURS 759 Practicum in Advanced Gerontological Nursing II 135 hrs pract, 3 cr. Prereq: NURS 756, 757; coreq: NURS 758. Preceptored experience in collaborative management of older adults, their families, and groups in multilevels of long-term care.

NURS 770 Nursing Care Management for Elderly Clients with Psychobehavioral Alterations 30 hrs theory, 45 hrs pract. Prereq: NURS 754. Select gero-psychiatric theories, research, and clinical knowledge for primary gerontological nursing practice. Guided practicum experience.

NURS 771 Community Health Nursing I 30 hrs theory, 45 hrs pract, 3 cr. Prereq or coreq: NURS 700. Examines the community as a focus of nursing at national, state, and local levels with emphasis on diagnosing levels of wellness, and developing strategies for health promotion and restoration.

NURS 772 Community Health Nursing II 30 hrs theory, 45 hrs pract, 3 cr. Prereq: NURS 771. Examines the health needs of aggregates within a community using principles of health promotion and health protection through the perspective of community health nursing.

NURS 773 Community Health Nursing III Prereq: NURS 772. Examines specialized nursing roles through a synthesis of advanced theoretical foundations as a basis for practice with aggregates and communities.

NURS 774 Practicum in Community Health Nursing 135 hrs, 3 cr. Coreq: NURS 773. Preceptor-supervised practicum emphasizing synthesis and application of theoretical foundations of community health nursing to the role of clinical specialist.

NURS 780 Health Care Ethics in the Life Span Ethical and legal issues related to health care and nursing practices and policy viewed from the perspective of human development.

NURS 791 Independent Study in Nursing 1 cr, 15 hrs. Supervised study of an area of interest for matriculated students. A total of 6 credits of independent study may be applied toward the degree. Permission of Specialization Coordinator.

NURS 792 Independent Study in Nursing 2 cr, 30 hrs. Supervised study of an area of interest for matriculated students. A total of 6 credits of independent study may be applied toward the degree. Permission of Specialization Coordinator.

NURS 793 Independent Study in Nursing 3 cr, 45 hrs. Supervised study of an area of interest for matriculated students. A total of 6 credits of independent study may be applied toward the degree. Permission of Specialization Coordinator.

NURS 799 Nursing Research III Prereq: NURS 702, 703. Implementation of approved nursing research project. Analysis of collected data and completion of approved thesis is an option in this course.

Philosophy

Chair James B. Freeman, West Building room 1413 phone 772-4970

Some members of the Hunter College Department of Philosophy participate in the MA and PhD program based at the City University Graduate School and University Center.

Information concerning degree requirements, courses, etc., may be obtained from Professor Arthur Collins, Executive Officer, Philosophy Department, CUNY Graduate School and University Center, 33 West 42nd Street, New York, NY 10036. Phone 790-4246.



Physics & Astronomy

Chair Steven Greenbaum, North Building room 1200 phone 772-5248

Graduate Advisor János Bergou, North Building room 1205
phone 772-5248

FACULTY

Alfred H. Bennick, Professor; PhD, Columbia; Astrophysics
János A. Bergou, Professor; PhD, Lóránd Eötvös; Intense Field
 Electrodynamics, Multiphoton Processes, Nonlinear and Quantum Optics
Ying-Chih Chen, Professor; PhD, Columbia; Laser Physics, Quantum
 Electronics, Ultra-Fast Optics, Light Matter Interaction
Leon Cohen, Professor; PhD, Yale; Quantum Mechanics, N-Body
 Self Gravitation Problem
Marten denBoer, Professor; PhD, Maryland; Experimental Condensed
 Matter, Surface Physics
Steven G. Greenbaum, Professor and Chair; PhD, Brown; Magnetic
 Resonance, Solid State Physics, Polymer Physics
Godfrey Gumbs, Professor; PhD, University of Toronto; Theoretical
 Condensed Matter Physics, Quantum Heterostructures

Mark Hillery, Professor; PhD, California, Berkeley; Quantum Optics,
 Non-Linear Optics, Ferromagnetic Semiconductors

Bo T. Lawergren, Professor; PhD, Australian National University; Musical
 Acoustics, Experimental Nuclear Physics

Robert A. Marino, Professor; PhD, Brown; Magnetic Resonance

Edward P. Tryon, Professor; PhD, California, Berkeley; Particle Physics,
 Cosmology

Rodney L. Varley, Associate Professor; PhD, Brandeis; Non-equilibrium
 Statistical Theory of Dense Gases and Liquids, Plasma Physics

MASTER OF ARTS

The MA in physics is offered as a terminal program or, with approval of the CUNY Graduate School and University Center, as part of the course work required for the PhD. Thesis research toward the doctorate may also be carried out at Hunter College.

Departmental Requirements for Admission

In addition to the general requirements for admission, the following departmental requirements must be met:

1. A minimum of 36 cr total in undergraduate physics and mathematics courses. These should include intermediate

mechanics, electricity, modern physics, and differential equations. A prevailing grade of B is required for these courses.

2. Approval by the department's Graduate Physics Committee. If deficiencies are noted in certain undergraduate courses, the applicant may be required to take these courses without graduate credit.

Departmental Requirements for the Degree

1. A program of courses designed in consultation with the graduate advisor and approved by the department's Graduate Physics Committee.
2. Completion of 30 cr of graduate work including:
 - a. Not more than 6 cr earned at a graduate institution *other* than CUNY.
 - b. At least 15 cr earned at Hunter College.
 - c. The following courses or their equivalents:
 - PHYS U701 Mathematical Physics (4 cr)
 - PHYS U711 Analytical Dynamics (4 cr)
 - PHYS U715 Electromagnetic Theory (4 cr)
 - PHYS U725 Quantum Mechanics (4 cr)
 - d. No more than 6 cr in 600-level courses.

The courses listed in sections 2(c) and 2(d) are generally offered during the daytime hours.

3. A maximum of 9 cr may be accepted in approved graduate courses in mathematics, astronomy, engineering, and physical chemistry.
4. The candidate will be required to pass a comprehensive examination based on the required courses listed in section 2(c) above or complete a thesis, under a faculty member's supervision, that is approved by the department's Graduate Physics Committee. The first PhD exam may be substituted for the comprehensive examination.
5. A minimum residence of 2 semesters at Hunter College. Courses taken as a non-matriculant may be counted toward the degree upon matriculation with the approval of the department's Graduate Physics Committee.
6. There are no foreign language requirements.

Financial Aid

Financial aid in the form of teaching assistantships is generally available, and there is a small amount of aid in the form of grants. In addition, opportunities exist to engage in paid research with various members of the staff.

DOCTOR OF PHILOSOPHY

Hunter College is a member of the CUNY PhD program in physics. Students applying to Hunter College may be accepted into the PhD program with the joint approval of the Hunter College Department of Physics and the Graduate School and University Center.

Students enrolled in the Hunter College MA program who achieve satisfactory records may enter the PhD program by passing CUNY's first PhD examination (an exam required of all PhD applicants). If they are enrolled in the PhD program, the courses taken in the Hunter MA program may be counted as part of the course work required for the PhD. Thesis research toward the doctorate may also be carried out at Hunter College.

COURSE LISTINGS

First-level Courses: Each course 45 hrs, 3 cr, unless otherwise noted.

PHYS U605 Mathematical Physics Introduction to basic mathematical techniques used in physics.

PHYS U621 Electronics Fundamental ideas of electronic circuits with special emphasis on solid state devices.

PHYS U625 Introduction to Quantum Mechanics Fundamental ideas in the study of atomic sized systems.

PHYS U645 Solid State Physics Introduction to basic theory and techniques in study of matter in solid state.

PHYS U671 Modern Physics Laboratory Selected experiments from various fields of physics using modern techniques.

Second-level Courses: Each course 60 hrs, 4 cr, unless otherwise noted.

PHYS U701, U702 Mathematical Physics Offered Fa/Sp. Study of the basic mathematical techniques used in physics.

PHYS U711 Analytical Dynamics Prereq or coreq: PHYS U701. Offered Sp. Study of advanced classical mechanics.

PHYS U715, U716 Electromagnetic Theory Prereq or coreq: PHYS U701. Offered Fa/Sp. Advanced concepts of static and time-dependent electromagnetic fields.

PHYS U725, U726 Quantum Mechanics Prereq or coreq: PHYS U701. Offered Fa/Sp. Basic study of quantum theory of matter including introduction to relativistic theory.

PHYS U771, U772, U773 Research or Independent Study Each 30-120 hrs, 1-4 cr. Research or independent study done under supervision of faculty member.

Courses offered according to student demand

PHYS U735 Phenomenological Nuclear Physics Study of the nucleus of atoms with emphasis on experimental results.

PHYS U738 Introduction to Non-equilibrium Statistical Mechanics Prereq: PHYS U711. Introduction to basic techniques for study of matter in non-equilibrium situations.

PHYS U741 Kinetic Theory and Statistical Mechanics Study of physical properties of systems consisting of very large numbers of particles.

PHYS U745, U746 Solid State Physics Prereq for PHYS U746: PHYS U725. Basic theory and techniques for study of matter in solid state are developed including solid state devices.

800-level University courses are periodically offered at Hunter College according to student demand.

Not Offered 1993-96:

PHYS U611 Analytical Mechanics

PHYS U615 Electromagnetic Theory

PHYS U624 Plasma Physics

PHYS U757 Astrophysics

Political Science

Chair Walter E. Volkmer, West Building room 1724 phone 772-5500

Some members of the Hunter College Department of Political Science participate in a joint MA program based at the City University Graduate School and University Center. Information can be obtained from the Department of Political Science, CUNY Graduate School and University Center, 33 West 42nd Street, New York, NY 10036. Phone 790-4275.

Psychology

Chair Herbert H. Krauss, North Building room 611 phone 772-5550
Graduate (MA) Advisor Virginia Valian, Thomas Hunter Hall room 510
 phone 772-5432

Program Head for Biopsychology (CUNY PhD Program) Peter Moller,
 North Building room 611 phone 772-5621

FACULTY

Gordon A. Barr, Professor; PhD, Carnegie-Mellon; Psychopharmacology/Biopsychology: Drug Abuse, Developmental Neuropharmacology, Aggression
Sheila Chase, Professor; PhD, CUNY; Experimental Psychology: Animal Cognition, Memory and Decision Processes, Computer Models
Martin Chodorow, Associate Professor; PhD, MIT; Experimental Cognition, Models of Memory, Psycholinguistics: Language Parsing and the Effects of Ambiguity
Darlene DeFour, Associate Professor; PhD, Illinois; Social Psychology, Minority Group Career Development, Psychology of Women, Social Support Systems
Robert Fried, Professor; PhD, Rutgers; Psychophysiology: Biofeedback, Behavior Physiology, EEG
James Gordon, Professor; PhD, Brown; Sensory Psychology: Color Vision, Visual Neuropsychology, Vision in Infants
Cheryl Harding, Professor; PhD, Rutgers; Behavioral Endocrinology: Hormone-Behavior Interactions, Hormone Metabolism & Specificity
Ellen Tobey Klass, Associate Professor; PhD, Chicago; Clinical Psychology: Guilt, Assertion, Cognitive-behavior Therapy
Herbert Krauss, Professor; PhD, Northwestern; Personality/Clinical: Health, Rehabilitation
Victoria Luine, Professor; PhD, SUNY-Buffalo; Behavioral Endocrinology: Neurochemistry of Hormone-dependent Sexual Behavior, Endocrine Factors in Age-related Cognitive Deficits
Susan Manning, Professor; PhD, California, Riverside; Experimental Psychology: Cognition, Memory in Young Subjects, Alzheimer's Disease, Judgment and Decision Making
Peter Moller, Professor; PhD, Free University of Berlin; Animal Behavior: Multisensory Integration, Electrolocation & Electrocommunication in Electric Fish, Behavioral Physiology, Field Studies
Stanley Novak, Associate Professor; PhD, Columbia; Experimental Psychology: Visual Perception, Sensory Processes, Psycho-physiology, Art & Vision
Vita C. Rabinowitz, Associate Professor; PhD, Northwestern; Experimental Social Psychology: Gender Bias in Scientific Research, Women's Health, Coping with Victimization
Salomon Rettig, Professor; PhD, Ohio State; Social Psychology; Therapeutic Group, the Kibbutz, Risk-taking, Philosophy of Science in Psychology
Bonnie Seegmiller, Associate Professor; PhD, NYU; Developmental Psychology: Parenthood Mandates and Intrafamily Abuse, Aging, Dying, Gender Roles
Joyce Slochower, Associate Professor; PhD, Columbia; Clinical/Social Psychology: Obesity, Psychotherapy, Psychoanalysis
Howard Topoff, Professor; PhD, CUNY; Animal Behavior: Social Insects, Animal Communication, Orientation, Social Organization, Field Studies
Gerald Turkewitz, Professor; PhD, NYU; Developmental Psychology: Lateral Differentiation, Perceptual Functioning, Effects of Malnutrition
Virginia Vallan, Professor; PhD, Northeastern; Cognition, Language, Women
Jason Young, Assistant Professor; PhD, Minnesota; Social Psychology: Attitudes & Persuasion, Political Psychology, Personality and the Self Concept
H. Philip Zeigler, Professor; PhD, Wisconsin; Physiological Psychology: Brain Mechanisms & Feeding Behavior, Motivation



independent studies and thesis research, in a number of content areas. Such areas of concentration and course work can include personality and social psychology, organizational psychology, cognitive psychology, experimental and physiological psychology, biopsychology and comparative psychology, and developmental psychology.

Research Opportunities and Facilities

Research involving human subjects and a wide variety of animal species is a major activity of the psychology faculty. In addition to research laboratories and facilities at the college, many faculty members also have active research affiliations with other institutions including the American Museum of Natural History, Albert Einstein College of Medicine, Rehabilitation Research Institute of the International Center for the Disabled, Payne Whitney Psychiatric Clinic, the CUNY Center for the Study of Women & Society, and Rockefeller Institute.

Students have the opportunity to engage in research under faculty supervision in such areas as infant development, career development, developmental psychobiology, concept learning and language, animal cognition, gender-role development, neural control of behavior, information processing, hormone-behavior interactions, race and ethnic psychology, sensory processes, and biofeedback.

Students in the MA Program also have access to a variety of facilities including specialized equipment for human and animal physiology, speech analysis, artificial speech production, and human and animal learning. In addition to the department's microcomputers and access to the CUNY Computer Center, Hunter College provides an Academic Computing Services Laboratory which may be utilized for individual research and laboratory courses.

MASTER OF ARTS

The MA degree is in General Psychology. Although Hunter College does not offer an MA in any subfield of psychology, students at their discretion may concentrate their course work, including

Psychology Colloquia

All graduate students are encouraged to attend the departmental colloquia held during the academic year. Colloquium speakers include psychologists visiting from other universities, City University faculty, and advanced graduate students. Colloquia provide opportunities for an exchange of ideas on current research and theory in psychology.

Departmental Requirements for Admission

The following departmental requirements for admission are in addition to the general College requirements:

1. Undergraduate psychology: at least 15 cr in psychology, including one laboratory course in experimental psychology and one course in statistics. In some cases, advanced undergraduate work in biology, mathematics, physical or social sciences may be accepted in lieu of some of the requirements in psychology.
2. Graduate Record Examination: satisfactory performances on the general aptitude test and the advanced test in psychology. In some instances, the GRE advanced examination in a field other than psychology may be substituted.
3. Approval of the department's Master's Program Admissions Committee.

Departmental Requirements for the Degree

Each candidate is required to complete an approved program of study of at least 30 credits that must include:

1. One course from each of the following groups:
 - a. History of Psychology (PSYCH U700)
 - b. Statistical Methods in Psychology (PSYCH U705 or U706)
 - c. Experimental Psychology (PSYCH 701, or 747)
 - d. Thesis Research (PSYCH 707 or 707.2)
2. Comprehensive examination: an oral examination in the area of the MA thesis.
3. Master's thesis: a report of individual research prepared in conjunction with PSYCH 707 under the supervision of a member of the graduate faculty and approved by the department.

Students are encouraged to investigate graduate course offerings in other departments within the College and the University for possible inclusion in their degree programs. The inclusion of such courses requires the approval of the graduate advisor.

Note: There is no foreign language requirement for the MA in psychology.

PhD PROGRAM IN BIOPSYCHOLOGY

The specialization in biopsychology within the CUNY doctoral program in psychology is located at Hunter College. With special permission, some 800-level doctoral courses may be taken as part of the MA program.

Information on the PhD program in biopsychology can be obtained from Dr. Peter Moller, program head for biopsychology, North Building room 612, phone 772-5621, or from the CUNY Graduate School and University Center. Applications for the doctoral program are processed through the CUNY Graduate School and University Center, 33 West 42nd Street, New York, NY 10036.

COURSE LISTINGS

Each course 45 hrs, including conferences, 3 cr, unless otherwise noted.

600-level Open to both non-matriculated and matriculated students. Ordinarily, no more than four 600-level courses may be credited toward the MA.

PSYCH 605 Abnormal Psychology: Advanced Course Prereq: PSYCH 220 or 223

PSYCH 610 Measurement of Intelligence*

PSYCH 612 Behavior Theory & Technology of Learning*

PSYCH 620 Introduction to Program Evaluation & Planning

PSYCH 630 Theories & Methods of Psychotherapy

PSYCH 632 Research in Social Psychology*

PSYCH 641 Comparative Psychology

PSYCH 646 Physiological Psychology

PSYCH 651 Psychology of Small Groups 15 hrs lec, 30 hrs lab, incl conf, 3 cr. Prereq: perm instr.

PSYCH 676 Psychology of Personality

PSYCH 680 Special Topics in Psychology

PSYCH 690 Independent Research in Psychology

700-level Open to matriculated students only, except by special permission of graduate advisor.

PSYCH U700 History of Psychology

PSYCH 701 Advanced Experimental Psychology I* 30-45 hrs lec, 60-90 hrs lab, 4-6 cr.

PSYCH U703 Design of Psychological Research 30 hrs lec, 30 hrs lab, 3 cr.

PSYCH U704 Instrumentation in Experimental Psychology 30 hrs lec, 60 hrs lab, 4 cr.

PSYCH U705 Statistical Methods in Psychology I 30 hrs lec, 30 hrs conf or lab, 3 cr.

PSYCH U706 Statistical Methods in Psychology II 30 hrs lec, 30 hrs conf or lab, 3 cr.

PSYCH 707 Thesis Research 3 cr. Individual research under supervision. Limited to students working on MA thesis in psychology. Written permission of sponsor required.

PSYCH 707.2 Thesis Research 3 cr. Additional semester of individual research under supervision. Limited to students working on MA thesis in psychology.

PSYCH U708 Proseminar I (Biological Foundations of Behavior)

PSYCH U709 Proseminar II

PSYCH U710 Advanced Physiological Psychology I (Neuroscience I)

PSYCH U711 Advanced Physiological Psychology II (Neuroscience II)

PSYCH U716 Comparative Psychology (Animal Behavior I)

PSYCH U716.50 Field Studies in Animal Behavior 90 hrs fieldwork + conf, 3 cr. Prereq: perm instr and program head, biopsychology. Methods of study of variety of animal species in their natural habitats.

PSYCH U718 Ethology (Animal Behavior II)

PSYCH U719 Current Research in Biopsychology*

PSYCH U720 Developmental Psychology I

PSYCH U721 Developmental Psychology II* Prereq: PSYCH U720 or perm instr.

PSYCH U730 Psychology of Learning

*Courses scheduled very infrequently.

PSYCH U735 Psychology of Perception

PSYCH U736 Sensory Psychology*

PSYCH U738 Cognitive Psychology

PSYCH U739 Research Methods in Animal Behavior* 30 hrs lec, 60 hrs lab, 4 cr.

PSYCH U740 Personality*

PSYCH U741 Evolution of Psychoanalytic Theory Prereq: PSYCH 220 or 646, and PSYCH 223 or 605.

PSYCH U742 Contemporary Psychoanalytic Theories Prereq: PSYCH 220 or 676, and PSYCH 223 or 605.

PSYCH U746 Social Psychology

PSYCH 747 Experimental Social Psychology 30 hrs lec, 30 hrs lab, 3 cr.

PSYCH 750 Special Topics in Psychology

PSYCH 751 Small Group Processes

PSYCH 752 Language and Thought*

PSYCH 753 Attitude and Attitude Change*

PSYCH U755 Psychopathology I

PSYCH U756 Psychopathology II

PSYCH U760 Psychometric Methods* Prereq: PSYCH U706 or perm instr.

PSYCH U761 Measurement of Abilities* 30 hrs lec, 30 hrs supervised practice, 3 cr.

PSYCH U763 Psychophysical Methods*

PSYCH 764 Personality Measurement I* Prereq: perm instr.

PSYCH 765 Personality Measurement II: Projective Techniques* 30 hrs lec, 30 hrs supervised practice, 3 cr. Prereq: perm instr.

PSYCH U780 Quantitative Methods in Psychology*

PSYCH U783 Mathematical Models in Psychology*

PSYCH U784 Colloquium in Animal Behavior & Biopsychology 30 hrs, 1 cr.

PSYCH U785 Advanced Physiological Psychology III*

PSYCH 786 Proseminar in Applications of Clinical & Social Psychology I* 30 hrs lec and field placement, 4 cr.

PSYCH 787 Proseminar in Applications of Clinical & Social Psychology II* 30 hrs lec and field placement, 4 cr.

PSYCH U790 Experimental Psychopharmacology* 30 hrs lec, 60 hrs lab, 4 cr.

PSYCH U799 Seminar and Practicum on the Teaching of Psychology*

800-level Open to doctoral students only, except by special permission of the graduate advisor or the program head for biopsychology.

PSYCH U800 Seminar in Current Psychological Research 15-45 hrs incl conf, 1-3 cr.

PSYCH U801 Seminar in Special Topics

PSYCH U802 Independent Psychological Research 3 cr. Student conducts research project in selected area under supervision of faculty member.

PSYCH U803 Doctoral Dissertation Seminar 3 cr.

PSYCH U816 Seminar in Comparative Psychology

PSYCH U819 Seminar in Biopsychology

PSYCH U821 Seminar in Reproduction: Behavior & Physiology*

PSYCH U823 Seminar in Psychopharmacology

PSYCH U832 Seminar in Behavior Theory

PSYCH U900 Doctoral Dissertation Supervision 1 cr. Prereq: perm program head, biopsychology.

Romance Languages

Chair Jeanine P. Plottel, West Building room 1310 phone 772-5108

Graduate Advisors Bettina Knapp (French and Italian), West Building room 1315; Juan Gonzalez-Millán (Spanish), West Building room 1349A

FACULTY

FRENCH

Hanna K. Charney, Professor; PhD, Columbia; 19th and 20th Centuries, Film and the Novel

Nancy Horneffer, Associate Professor; PhD, Columbia; Renaissance Literature, Montaigne, Francophone Literature

Bettina Knapp, Professor; PhD, Columbia; 19th and 20th Centuries, Theater, Psychoanalysis

John W. Kneller, University Professor, CUNY; PhD, Yale; 19th Century Poetry, Textual Analysis

Paul LeClerc, Professor and President; PhD, Columbia; 18th Century, Voltaire

Cecile Nebel, Associate Professor; PhD, Columbia; 20th Century, Literature and the Arts

Jeanine P. Plottel, Professor and Chair; PhD, Columbia; 19th and 20th Centuries, Theory and Criticism

Julia Przybos, Professor; PhD, Yale; 19th Century, Theater, Fin de Siècle

Francesca Sautman, Associate Professor; PhD, UCLA; Medieval Studies and Folklore

Alexander W. Szogyi, Professor; PhD, Yale; Molière, Comedy, Theatre of the 17th Century

Sylvie Weil, Professor; Agrégée de l'Université de Paris; French Women Writers, Style and Stylistics

ITALIAN

Giuseppe DiScipio, Professor; PhD, CUNY; Middle Ages, Dante and Renaissance

Mario Fratti, Professor; Dottore Ca Foscari; Modern Italian Literature, Drama

Maria Grazia Paynter, Assistant Professor; PhD, Toronto; Contemporary Italian Literature

SPANISH

Diana Conchado, Assistant Professor; PhD, Brown; Literature of the Golden Age

Marithelma Costa, Associate Professor; PhD, CUNY; Medieval Spanish Literature, Modern Latin American Literature

Juan Gonzalez-Millán, Associate Professor; PhD, CUNY; Modern Spanish Literature, Galician Literature, Theory

Zenaída Gutiérrez-Vega, Professor; University of Madrid; Contemporary Latin American Literature

Carlos R. Hortas, Professor and Dean of Humanities and the Arts; PhD, Yale; 19th-Century Spanish Literature

José Ollvio Jiménez, Distinguished Professor; Doctor en Filosofía y Letras, University of Havana; Spanish and Latin American Poetry

Julius O. Purczinsky, Associate Professor; PhD, Texas; Linguistics, Romance Philology

George Yúdice, Professor; PhD, Princeton; Latin American Literature, Theory

MASTER OF ARTS

The master's degree in French, Italian, or Spanish provides an opportunity for professional advancement in teaching and a variety of other fields. It also furnishes a means of personal development for those whose interests have a strong language and literature component.

The MA is offered either as a final degree or as the first year of work toward the PhD within the City University. See *Bulletin of the Graduate School* for a description of the PhD program and the complete list of courses.

*Courses scheduled very infrequently.

Departmental Requirements for Admission

Admission of each candidate to graduate study in Romance languages is contingent upon general matriculation requirements of Hunter College and upon approval by a committee of the department. Where general scholarship is superior, but preparation in the literature of specialization is found to be insufficient, or the student does not present an undergraduate major in the field, a special examination and/or enrollment in specified undergraduate courses without credit, or both, may be required. Before matriculation, the applicant must give evidence of ability to read, speak, and write the language of specialization.

Departmental Requirements for MA

1. The total 30 cr for the MA must include the following:
 - a. RLNG 701 Introduction to Romance Linguistics (3 cr). (RLNG 702 may be substituted.)
 - b. 24-30 cr in literature of specialization (700-level only).
 - c. Thesis Seminar: required of all students in Italian who elect to write master's essay (3 cr).
2. A high degree of competence in the language of specialization is required.
3. Comprehensive Examination: this will consist of essay questions on the literature in the language of specialization.
4. Master's Essay: this is optional. Topics for the essay will be determined in consultation with the student's sponsor. The thesis seminar is passed when the student's essay is accepted by both the sponsor and the appropriate graduate advisor.

DOCTOR OF PHILOSOPHY

PhD programs in Romance languages are based at the City University Graduate School and University Center. See the *Bulletin of the Graduate School* for a description of the PhD programs and a complete list of courses.

PROGRAM FOR SECONDARY SCHOOL TEACHERS

This Teacher Education Program (TEP) is not for individuals who already have provisional certification in the teaching of French, Italian or Spanish. Provisionally certified teachers should apply to a Master of Arts Program in French, Italian, or Spanish.

Requirements for Admission

1. A bachelor's degree from an accredited institution acceptable to Hunter College.
2. High-level fluency in French/Italian/Spanish and the equivalent to the Hunter College major in French/Italian/Spanish.
3. A cumulative GPA of 2.7 or better and a GPA in French/Italian/Spanish of at least 3.0.

Students who have a 3.0 or better index in French/Italian/Spanish but whose cumulative GPA is below 2.7 may be considered for admission to non-matriculant status. The student so admitted will be directed to take a specific sequence of courses totalling 9 credits, must achieve an average of 3.0 or better in these 9 credits, and must then reapply for admission as a matriculant.

4. English Proficiency Requirement, including a satisfactory score on the TOEFL examination for students who have studied abroad.

Requirements for the MA (TEP) in French, Italian, or Spanish

A total of **32-46 cr**, to be distributed as follows:

1. **21 cr** in literature courses in one of the following languages:

French: **21 cr** in Francophone and French literature from the Middle Ages to the present.

Italian: **21 cr** in Italian literature.

Spanish: **21 cr** in Spanish and Spanish-American literature.
2. **6 cr** in English and/or American literature. This requirement may be met either with courses taken on the undergraduate level, prior to admission to the graduate program, or as part of the graduate program requirement. Students who fulfill this requirement through undergraduate courses will not have to substitute other graduate courses for this 6-cr requirement.
3. A sequence of **11-19 cr** in teacher education courses (See the Education Section of this catalog for the required sequence of courses in Education.)

A comprehensive examination in French, Italian, or Spanish and a comprehensive examination in Education.

COURSE LISTINGS

Each course 30 hrs + conferences, 3 cr, unless otherwise noted.

Romance Languages

RLNG 701 Introduction to Romance Linguistics I Comparative study of evolution of French, Italian, and Spanish. (Required for MA in Arts and Sciences, if RLNG 702 is not taken.)

RLNG 702 Introduction to Romance Linguistics II Development of phonology and morphology. Schools and theories of Romance linguistics. May be taken independently of RLNG 701.

French

FREN 702 Studies in French Criticism Consideration of major literary and esthetic theories and judgments through selected readings of essays, prefaces, and manifestos.

FREN 708 Methods of Research To be taken concurrently with preparation of the master's essay.

FREN 711 Medieval French Literature I French literature of the 12th and 13th centuries. Analysis of texts. Collateral reading.

FREN 712 Medieval French Literature II French literature of the 14th and 15th centuries. Analysis of texts. Collateral reading.

FREN 721 French Poetry of 16th Century Classical and Italian influences. The Lyons poets, the Pléiade, Protestant poets.

FREN 722 Rabelais and Montaigne Analysis of works of Rabelais and Montaigne. Special attention to important aspects of their intellectual heritage and milieu.

FREN 725 Main Currents of French Renaissance Background of French Renaissance as reflected in major authors.

FREN 731 Descartes and Pascal Analysis of major texts of Descartes and Pascal. Study of their influence. Considerations of some modern interpretations of their works.

FREN 732 French Tragedy of 17th Century Study of nature and characteristics of French tragic theatre from Baroque to Classicism. Emphasis on plays and prefaces of Corneille and Racine; consideration of dramatic writers and critics.

FREN 733 Theatre of Molière The 17th-century stage; textual questions and sources. Discussions of special problems of interpretation in connection with analysis of selected plays.

FREN 734 French Moralists of Classical Period Significant works by such authors as La Rochefoucauld, Bossuet, La Fontaine, Madame de Sévigné, Fénelon, La Bruyère, Saint-Simon.



FREN 741 Diderot Readings from works in esthetic and philosophical theory and novels. Diderot's influence through the *Encyclopédie*, his dramatic theories, and his formal innovations.

FREN 742 Voltaire and Rousseau Study of more important aspects of their works. Emphasis on their personal feud, their ideological antagonism, their philosophical oppositions and affinities.

FREN 750 Era of Chateaubriand Analysis of major works of Chateaubriand and such contemporaries as Madame de Staël, Constant, Senancour, Joubert, de Maistre. Their influence on contemporary movements as well as on present criticism and theory.

FREN 751 Romanticism and the Parnasse French poetry from *Méditations* to *Poèmes Barbares*. Minor poets of Parnasse School; its influence.

FREN 752 French Poetry from Baudelaire to Symbolism Emphasis on works by Baudelaire, Verlaine, Mallarmé, Rimbaud, Laforgue. Collateral readings in relevant thought and criticism, and in theories and evolution of esthetic movements of period.

FREN 753 Balzac and Stendhal Major novels of Balzac and Stendhal. Comparative analysis of their themes, psychology, and narrative techniques. Some study of relevant intellectual, social, and political trends of the period.

FREN 754 Flaubert, Zola, and Maupassant Analysis of selected works. Collateral study of origins of Realism and Naturalism and their role in shaping of French novel from mid-century onwards.

FREN 755 French Fiction from Romanticism to the Decadence Selected works by Hugo, Sand, Mérimée, Nerval, Gautier, Fromentin, Barbey D'Aurevilly, Huysmans, Villiers de l'Isle-Adam. Emphasis will be on impact of antipositivist thought and esthetics on novel and related genres of 19th century.

FREN 756 19th-Century French Theatre Main trends from Romanticism to théâtre libre. Selected readings from Hugo, Vigny, Musset, Scribe, Labiche, Dumas fils, Sardou, Becque, Feydeau, Maeterlinck, Courteline, etc. Some study of evolution of dramatic theory, theatres, and styles of theatrical production.

FREN 760 Aspects of 20th-Century French Fiction Selected novels by Mauriac, Duhamel, Alain-Fournier, Rolland, Colette, Saint-Exupéry, Malraux, and others. Sartre, Camus and their influence. *Le Nouveau Roman*. (For Gide and Proust, see FREN 761.)

FREN 761 Gide and Proust Analysis of authors' major fiction with emphasis on contrast between their conceptions of style, characterization, and creative process.

FREN 763 Major Currents of Modern French Poetry Readings from Valéry, Apollinaire, Jacob, Reverdy, Breton, Eluard, and others; movements such as Cubism, Surrealism; contemporary trends.

FREN 765 Aspects of Modern French Theatre Consideration of significant dramatists and movements of the period. Analysis and discussion of plays by such authors as Claudel, Giraudoux, Rostand, Montherlant, Anouilh, Sartre, Camus; recent avant-garde tendencies.

FREN 791-799 Special Topics in French Literature Intensive study of particular writer, trend, perspective, or problem in French literature. Topics to be announced in advance.

Other Courses

FREN 600 Basic Course in French for Graduate Students

FREN 611 Explication de Texte

FREN 621 Genre Studies I: French Poetry

FREN 622 Genre Studies II: The Theatre in France

FREN 623 Genre Studies III: The French Novel

FREN 624 Literature of Ideas

FREN 720 Concepts of French Poetry

Italian

ITAL 710 Dante's *Inferno* Thorough study of *canti* from linguistic-historical-esthetic point of view.

ITAL 711 Italian Literature from Its Origins to 13th Century *Cantico del Sole* of St. Francis of Assisi, mystical poetry of Jacopone da Todi, chronicle of Fra Salimbene, Marco Polo's *Travels*; poets of Sicilian School; *Dolce stil nuovo*; *Fioretti* of St. Francis; *Chronicle* of Dino Campagni.

ITAL 712 Dante's *Vita Nuova* and *Inferno* Dante as seen against socio-political and intellectual background of Medieval Florence.

ITAL 713 *Purgatorio* Intensive study of its background, symbols, poetical significance, and place in development of Dante's art.

ITAL 714 *Paradiso* Dante's final ascent to Source of all Being; theology and beauty; contents, episodes, lyrical and mystical consummation of third *Cantica*.

ITAL 715 Poetry and Humanism of Petrarch *Canzoniere*, *Trionfi*, *Secretum*, *De Viris Illustribus*, and *Correspondence*.

ITAL 716 Boccaccio's *Decameron* and His Minor Works Boccaccio's celebrated classic and some of his minor works such as *Fiammetta*, *Filosttrato*, *Teseide*, *Ameto*, *Amorosa Visione*, *Vita di Dante*.

ITAL 720 Prose Works of Dante—*Vita Nuova*, *Convivio*, *de Vulgari Eloquentia*, *Monarchia* Literary-historical-philosophical analysis of principal prose works of Dante.

ITAL 721 Ariosto *Orlando Furioso*, *Le Rime*, *Satire*.

ITAL 722 Machiavelli: Political Theorist and Moralist Study of *Istorie Fiorentine*, *Correspondence*, *Mandragola*, *Il Principe*, and *Discorsi*.

ITAL 725 *Gerusalemme Liberata* Thorough study of Tasso's *Gerusalemme Liberata* and related linguistic, historical, and philosophical problems.

ITAL 726 Italian Theatre I—From Machiavelli to Alfieri Study of theatre from Renaissance through commedia dell'arte, comedies of Goldoni up to tragedies of Alfieri.

ITAL 727 Italian Theatre II—From Manzoni to Contemporaries Study of theatre from Risorgimento to Pirandello and theatre of post-World War II Italy. Particular study of contemporaries.

ITAL 752 Art of Humanism of Manzoni *I Promessi Sposi*, *Morale Cattolica*; poetic, dramatic, and critical works.

ITAL 753 Foscolo and Leopardi Foscolo's *Jacopo Ortis*, *Sepolcri*, *Grazie* and Leopardi's *Canti*, *Operette Morali*, *Zibaldone*.

ITAL 754 Carducci, D'Annunzio, Pascoli Representative works including poetry, novels, drama.

ITAL 755 Leopardi Study of poetry and prose, including *Zibaldone*. Art of Leopardi in Italian and European context.

ITAL 756 Neo-Classic Tradition from Parini to D'Annunzio Continuity and change in main poetical works of Parini, Foscolo, Carducci, D'Annunzio.

ITAL 762 Italian Novel and Theatre Since 1900 Verga, Pirandello, Betti, Bacchelli, Moravia, Alvaro, Vittorini, Pavese, Buzzati.

ITAL 763 Modern Italian Novel—From Verga's *I Malavoglia* to Novels of Moravia Novel and modern Italian society; novel as art form over last hundred years.

ITAL 764 Modern Italian Poetry Intensive reading of poets from Pascoli to the present. Particular attention to Quasimodo, Montale.

ITAL 765 Croce and His Contemporaries Study of impact of Croce on Italian literature, philosophy, and theory of history of his time. Readings from Gentile, Pirandello, Pareto.

ITAL 791 Studies in History of Italian Theatre Advanced seminar, opportunity for intensive study of particular writer, trend, specialized problems.

ITAL 799 Thesis Seminar 3 cr. Individual research under guidance of faculty member. To be taken concurrently with preparation of master's essay.

Other Courses

ITAL 702 Italian Stylistics and Rhetoric

ITAL 723 Poets, Philosophers, Historians, and Scientists of the Baroque

ITAL 724 Lorenzo de'Medici and His Circle

ITAL 751 Pre-Risorgimento Period

Spanish

SPAN 705 Lyric Poetry from Garcilaso to Gongora Main currents in Spanish poetry during Renaissance, Counter-Reformation, and Baroque periods.

SPAN 711 Spanish Poetry of Middle Ages Origins and development of Castilian epic and of lyric poetry, with special emphasis on *Poema del Cid* and *Libro de buen amor*.

SPAN 720 Spanish Novel of 16th and 17th Centuries Genesis and main forms of novel in Renaissance and Baroque periods with special emphasis on picaresque novel.

SPAN 722 Cervantes' *Don Quixote* Analysis and interpretation of content and structure of *Don Quixote*, Cervantes' significance as creator of modern novel.

SPAN 725 Spanish *Comedia* Dramatic art of Golden Age from Lope de Vega to Calderón de la Barca. Patterns, style, and influence in world literature.

SPAN 726 Non-fictional Prose of Golden Age Study of didactic, mystical, and satirical writers of 16th and 17th centuries.

SPAN 730 Spanish Neoclassic Poetry and Essay New currents in Spanish thought and poetry through 18th century.

SPAN 742 Realism and Naturalism in the Spanish Novel of 19th Century Development of modern fiction from *Costumbrismo* to second generation of Naturalistic novelists. Special emphasis on work and significance of Perez Galdós.

SPAN 750 Contemporary Spanish Poetry Trends in Spanish poetry from Generation of 1898 to Existentialism.

SPAN 751 Romantic Poetry from Rivas to Becquer Distinctive features of Romantic movement in Spain as manifested in work of main Romantic and post-Romantic poets.

SPAN 754 The Modern Essay in Spain Trends of thought in Spanish essayists of 19th and 20th centuries with special emphasis on Unamuno and Ortega y Gasset.

SPAN 756 The Contemporary Spanish Novel Main currents, types, and representative authors of modern Spanish fiction from Naturalism to present.

SPAN 760 Spanish-American Literature: The Colonial Period From early chroniclers of Indies to Neo-Classicism.

SPAN 763 Spanish-American Fiction I: From Origins through Modernist Novel Lizardi's *El Periquillo Sarniento*, Romanticism, Realism, Naturalism, and Modernismo.

SPAN 764 Spanish-American Fiction II: From "The Novel of the Mexican Revolution" to the Present Development of Spanish-American novel and short story since Modernismo.

SPAN 765 Spanish-American Poetry I: From Neo-Classicism through Modernismo Spanish-American poetry from La Independencia to World War I. Attention paid to development of *prosa artistica* during Modernista period.

SPAN 766 Spanish-American Poetry II: From Post-Modernismo to the Present Post-Modernismo, Vanguardism, most recent trends.

SPAN 767 The Spanish-American Essay Essay and related genres dealing with cultural, social, and political matters in Spanish America, from La Independencia to present.

SPAN 768 The Spanish-American Theatre General view of development of genre through colonial period and 19th century. Contemporary theatre since Florencio Sánchez, with special emphasis on most recent trends.

SPAN 791 Special Studies in Spanish Literature Advanced seminar for intensive study of particular writer, trend, specialized problem of language or literature under guidance of specialist. Research and critical analysis as well as appraisal of secondary and primary sources.

SPAN 796 Special Studies in Spanish-American Literature Advanced seminar for intensive study of particular writer, trend, specialized problem of language or literature under guidance of specialist. Research and critical analysis as well as appraisal of secondary and primary sources.

Other Courses

SPAN 611 Literature of the Spanish Renaissance and the Counter-Reformation

SPAN 612 Major Authors of Spanish Baroque

SPAN 614 Spanish Literature of 19th Century

SPAN 615 Contemporary Spanish Literature

SPAN 616 Spanish-American Literature from Its Origins Through Romanticism and Realism

SPAN 617 Spanish-American Literature: Modernismo and Contemporary Trends

SPAN 621 Main Trends in Spanish Thought and Art

SPAN 622 Main Trends in Latin American Thought and Art

SPAN 701 History of Spanish Language

SPAN 704 Spanish Theatre of 19th and 20th Centuries

SPAN 723 Theatre Before Lope de Vega

Russian Area Studies

Program Director/Graduate Advisor Cynthia Roberts, West Building room 1701 phone 772-5500, 5502

CORE GRADUATE FACULTY AND FIELDS OF SPECIALIZATION

Political Science

Cynthia Roberts, Director and Assistant Professor, Russian Area Studies Graduate Program; PhD, Columbia; Russian and Post-Soviet Politics, Foreign and Military Policies; Russian Nationalism and National Interest; Civil-Military Relations; European Security Issues; Rise and Fall of Great Powers

Donald Zagoria, Professor; PhD, Columbia; U.S. Security Policy; Great Powers in Asia; Sino-Soviet and Sino-Russian Relations; Problems in Asian Communism

Gregory J. Massell, Professor Emeritus; PhD, Harvard; Post-Soviet and East European Government and Politics; Ethnic Politics in the Soviet Successor States; Modernization and Political Development; Central Asia

History

Michael M. Luther, Associate Professor; PhD, Columbia; Modern Russian and Soviet History; Soviet Foreign Policy; Russian and Soviet Social Thought; Soviet Nationality Policy; Ukrainian History and Political Thought
Cynthia Whittaker, Professor of History at Baruch College; PhD, Indiana University; Russian Imperial History; Russian Cultural and Intellectual History; History of Russian Conservatism

Literature

Alex E. Alexander, Professor and Chair, Russian Division; PhD, Columbia; Russian and Comparative Folklore; Medieval and Imperial Russian Culture; Selected Studies in Pushkin, Gogol and Dostoevsky; Polish Literature; Russian and Polish Languages
Elizabeth Beaujour, Professor; PhD, Columbia; Early Soviet Literature; Olesha; Russian Drama and Theatre; The Interaction of French and Russian Literature; Bilingual Russian Writers
Emil Dreltser, Associate Professor; PhD, University of California, Los Angeles; Contemporary Russian Culture; Russian Satire; Creative Writing; Selected Studies in Leskov, Chekhov and Zoshchenko; Russian Syntax

Anthropology

Gerald Creed, Assistant Professor; PhD, CUNY; Transformation of Rural Societies; Society and Culture of Eastern Europe; Political Economy of Eastern Europe; Bulgaria

RUSSIAN AREA STUDIES GRADUATE PROGRAM

The Russian Area Studies Graduate Program at Hunter College of The City University of New York is devoted to the interdisciplinary study of Russia, East Central Europe, and the former Soviet Union. Committed to both research and the training of graduate students, the program offers a course of study leading to a Master of Arts degree in Russian Area Studies.

The MA program provides students with a general knowledge of issues concerning Russia, the former Soviet Union and its successor states, and Eastern Europe. The interdisciplinary course of study includes specialized instruction in the history, literature, politics, economics, arts, film, and theatre of Russia and other parts of the region. Students in the RAS program are also eligible for participation in exchange programs with Russia, the successor states of the Soviet Union, and various countries in Eastern Europe.

The Russian Area Studies Program prepares graduate students for doctoral studies and scholarly careers in Russian, post-Soviet and Eastern European studies and for professional careers in government service, diplomacy, the armed forces, foreign trade, education, journalism, and related fields.

In accordance with CUNY's educational philosophy, the RAS program strives to accommodate working students by offering courses during the late afternoon and evening hours.

Special Program for Teachers of Secondary School Social Studies

An MA in Russian Area Studies may be obtained in conjunction with advanced professional study in teacher education. This special program is open to present and prospective secondary school teachers who hold, or are qualified for, a provisional certificate or license for teaching social studies and who meet the academic standards required of all matriculants in Russian Area Studies. The program, planned in cooperation with the Division of Programs in Education, is designed to enable qualified students to enhance their professional competence in a substantive interdisciplinary field (focusing on the social sciences and a non-Western culture area) while fulfilling the requirements for a permanent teaching credential. Graduates also meet the re-

quirements for the New York City permanent license in secondary school social studies.

Matriculants in this special program fulfill the general departmental requirements for the MA in Russian Area Studies, with 2 exceptions: the requirement for proficiency in reading Russian may be waived, and 7 to 8 of the elective credits will be devoted to advanced professional study in education. Students are expected to complete a total of 33 credits of course work.

Departmental Requirements for Admission

General admission requirements to the graduate programs in the arts and sciences are observed.

Students who are not candidates for the master's degree in the Russian Area Studies program may be admitted to particular courses with the permission of the graduate advisor and instructor of the course.

Departmental Requirements for the Degree

1. Satisfactory completion of 33 cr, including the following required courses (15 cr):

RAS 701 Russia Before Great Reforms of 19th Century
 RAS 702 Russia from Great Reforms to Present
 RAS 703 Government and Politics of Russia and non-Russian Republics of the former Soviet Union
 RAS 721 Economic Systems of the Soviet and post-Soviet Union
 RAS 741 19th-Century Russian Literature
 or
 RAS 742 20th-Century Russian Literature

Students who have had equivalent training may, at the discretion of the program director, be exempted from one or more of the required courses. They will not, however, receive credit for such courses.

2. Proof of proficiency in reading Russian

Students who do not on matriculation possess an adequate reading knowledge of Russian must enroll in an intensive language course. For information on Russian language courses, see the *Undergraduate Catalog* under Russian and Slavic Languages. Russian Language courses are not credited toward a graduate degree. Matriculated students must demonstrate proof of a reading proficiency in Russian prior to registering for the required thesis seminar.

3. Master's thesis

Research for the master's thesis will be conducted under the supervision of a member of the staff in a field selected by the student and approved by the instructor.

COURSE LISTINGS

Each course 45 hrs, including conferences, 3 cr, unless otherwise noted.

RAS 701 Russia Before Great Reforms of 19th Century History of Russia from its Kievan origins to its crystallization as a multinational, absolutist empire in 19th century.

RAS 702 Russia from Great Reforms to Present History of Russia from late 19th-century absolutism, through liberal and Bolshevik revolutions of 1917, to triumph of Stalinist state after World War II.

RAS 703 Government and Politics of Russia and Non-Russian Republics of the Former Soviet Union Analysis of theory and practice of Soviet and post-Soviet political institutions: party, government, army, bureaucracy, law; class structure; nationalities; problems of continuity and change.

RAS 706 Russian Intellectual Currents in 19th and 20th Centuries Study of main currents in Russian cultural, literary, and intellectual tradition and of aesthetic and social tendencies in Russian and Soviet literary criticism.

RAS 707 History of Soviet Foreign Policy History of Soviet relations with Europe, US, and Third World from 1917 through World War II and era of cold war.

RAS 710 Soviet Union in Eastern Europe: Conquest and Collapse Analysis of relationship between Soviet Union and other members of Communist bloc in Eastern Europe, including problems of integration and fragmentation.

RAS 712 Nationalities and Their Historic Development History of non-Russian people of USSR, their status under Russian empire and in USSR. Evolution of Soviet nationality theory and practice.

RAS 721 Economic Systems of the Soviet and Post-Soviet Union Analysis of Soviet and post-Soviet economic institutions, their development and functions; theory and practice of central planning; performance and evaluation of Soviet economy since 1917; prospects since collapse of the USSR in 1991.

RAS 789.78 Political Economy of Eastern Europe Examination of political and economic processes which have differentiated and defined the area from pre-socialist to post-socialist period. Impact of legacy of socialism on attempts to establish democratic capitalism.

RAS 731 Geography of the USSR and Soviet Successor States Prereq: a course in fundamentals of geography or equiv. Survey of Soviet geographic regions, economic and energy resources. Industry, agriculture, transportation. Inter-regional and international relationships.

RAS 740 Russian Literature from 11th to 18th Century Knowledge of Russian desirable, but not required. Literary genres of medieval Russia as art and cultural documents: epics, lives of saints, chronicles, satire. Secular works from Radishchev to Karamzin.

RAS 741 Nineteenth-Century Russian Literature Pushkin to Chekhov in English translation.

RAS 742 Twentieth-Century Russian Literature Major 20th-Century authors from Gorky to Pasternak and Solzhenitzyn in English translation.

RAS 743 Russian Poetry Conducted in Russian. Study of major Russian poets of 19th and 20th centuries.

RAS 744 Soviet Novel: Art and Ideology Study of genre of novel as vehicle for expressing artistic and ideological tendencies in Soviet times; major novelists from Bely to Solzhenitzyn, in English translation.

RAS 745 History of Russian Literary Language Development of Russian phonology, morphology, and syntax; evolution of Russian literary style.

RAS 746 Russian Folklore: Myths and Traditions Knowledge of Russian desirable, but not required. Analysis of Russian folk literature as a starting point for a comparative study of world mythologies.

RAS 747 Russian Drama Knowledge of Russian desirable, but not required. Development of Russian drama, including masterpieces of 19th and 20th centuries and innovative techniques of Soviet period.

RAS 749 Seminar: Tolstoy and Dostoyevsky Art and thought of Russia's two greatest novelists. Students matriculated in RAS program will be required to work with Russian-language sources.

RAS 771.62 Modern History of East Central Europe Survey of historical developments in the region during the 20th century.

RAS 789.57 Ethnicity and Nationalism in Eastern Europe Historical and theoretical examination of the mobilization of national and ethnic sentiments, challenging primordial interpretation of associated identities. Major case studies include the former Yugoslavia, Romania and Germany.

RAS 789.63 Society and Culture in Eastern Europe Analysis of the distinctive customs and traditions of the region, including social organization, religion, gender, folklore and popular culture.

RAS 789.79 Government and Politics in Eastern Europe Survey of political, economic and social institutions of individual East European countries in the post-Cold War era. Emphasis on contemporary political problems during period of transition from Soviet bloc.

RAS 789.80 Seminar on European Security Historical case studies and social science theory provide the basis for analyzing alternative futures for security in Europe in the post-Cold War era. Focus on sources of war and peace, instability and stability, with a section on nationalism and ethnicity past and present.

RAS 771 Colloquia in Russian History

RAS 771.51 Russian and Soviet Thought from Herzen to Trotsky

RAS 771.52 Religion in Russian History

RAS 771.53 Problems in Russian Cultural History

RAS 771.55 Political Dissent in Russia

RAS 771.63 History of the Balkans in Modern Times

RAS 779 Seminar: Selected Topics in Russian Literature

RAS 779.51 Maxim Gorky

RAS 779.52 Grotesque Tradition in Russian Literature

RAS 779.53 Soviet Dissident Movements

RAS 779.54 Silver Age in Russian Literature

RAS 779.55 Russian Short Story and Novella

RAS 779.57 Literature and Revolution

RAS 779.80 Contemporary Russian Literature

RAS 779.81 Jewish Themes in Polish Culture

RAS 789 Selected Topics in Comparative and International Politics

RAS 789.50 Russian National Interest: Past and Present

RAS 789.52 Revolutionary Mass Movements: Communism, Fascism, Anarchism

RAS 789.58 Russian-American Relations

RAS 789.61 Great Powers in Asia

RAS 789.64 Minorities in Eastern Europe

RAS 789.65 Fate of the Superpowers: Decline and Transformation?

RAS 789.67 Concepts of Totalitarianism & Dictatorship

RAS 789.75 Transitions from Authoritarian Rule: USSR and Eastern Europe

RAS 789.76 Ethnicity and Nationalism in the Soviet Successor States

RAS 789.78 Political Economy of Eastern Europe

RAS 799 Thesis Seminar 3 cr. Prereq: proof of proficiency in reading Russian and approval of advisor.

Social Research

Chair Pamela Stone, West Building room 1622 phone 772-5585

Program Director and Advisor Michael Wood, West Building room 1601 phone 772-5581

FACULTY

Terry Arendell, Associate Professor; PhD, California, Berkeley; Methodology- Qualitative Approaches, Sociology of Marriage & Family, Sociology of Sex & Gender, Sociology of Aging/Social Gerontology

Robert Carter, Assistant Professor; PhD, Columbia; Social Policy, Religion, Law, Race and Ethnic Relations, Social Theory

John M. Cuddihy, Professor; PhD, Rutgers; Social Movements, Religion, Ethnic Groups

Charles Green, Associate Professor; PhD, Rutgers; Ethnic and Race Relations, Social Welfare Policy, Community Organization

John Hammond, Professor; PhD, Chicago; Labor, Quantitative Methods, Social Movements, Political Sociology

Philip Kasnitz, Associate Professor; PhD, NYU; Urban Sociology, Qualitative Methods

Naomi Kroeger, Associate Professor; PhD, Chicago; Research Methods, Formal Organizations, Occupations

Manfred Kuechler, Professor; PhD, Bielefeld (Germany), Research Methods, Political Sociology

Esther I. Madriz, Assistant Professor; PhD, Vanderbilt; Criminology, Deviant Behavior, Political Sociology

Claus Mueller, Associate Professor; PhD, New School for Social Research; Media Research and Analysis, Focus Group Research, Political Sociology

Robert Perinbanayagam, Professor; PhD, Minnesota; Theory, Social Psychology, South Asian Society, Discourse Analysis

Janet Poppendieck, Associate Professor; PhD, Brandeis; Social Welfare, Family Policy

Benjamin Ringer, Professor; PhD, Columbia; Ethnic & Race Relations
Yaffa Schlesinger, Assistant Professor; PhD, NYU; Sociology of Art, Deviant Behavior and Social Control
Marvin Scott, Professor; PhD, California, Berkeley; Theory, Mental Health, Psychoanalysis
Ruth Sidel, Professor; PhD, Union Graduate School; Child Welfare, Sex Roles, Sociology of Medicine
Pamela Stone, Associate Professor and Chair; PhD, Johns Hopkins; Work and Occupations, Gender Stratification
Peter Tuckel, Associate Professor; PhD, NYU; Social Statistics, Research Methods, Political Sociology
Michael Wood, Associate Professor; PhD, Texas; Consumer Behavior, Social Change, Social Psychology, Applied Research

MASTER OF SCIENCE IN SOCIAL RESEARCH

The Department of Sociology offers an intensive program in social research leading to the master of science. The program is designed for individuals with a background in the social sciences who wish to pursue a career in research and related areas, as well as for those who wish to upgrade their research skills. All courses are scheduled in the evening.

Graduates are prepared for professional research positions in government agencies, nonprofit organizations and business corporations. The program's curriculum emphasizes the development and application of skills in research design and qualitative and quantitative analysis. Proficiency in the use of desktop computers for research tasks (statistical, spreadsheet, graphics, database, and telecommunications packages) is an essential part of the research training.

The program offers 3 broad areas of specialization: market research and consumer behavior (area advisor, Michael Wood, 772-5581), media research and analysis (area advisor, Claus Mueller, 772-5647), and research and policy analysis in the public and nonprofit sector (area advisor, Naomi Kroeger, 772-5577). Students may focus on one of the program's areas of specialization or, with faculty guidance, develop a customized course of study if the area of specialization corresponds to a graduate faculty member's area of expertise.

Students train for a career in research through a combination of course work, research in their areas of specialization, and a supervised internship. By carrying out a research project during the internship outside the university setting, students gain first-hand experience in the conduct of applied research and familiarity with practical problems in their field of interest. Frequently, agencies and companies providing internships appoint former interns to full-time positions after graduation. Students gain additional professional exposure through monthly seminars with practitioners in various fields of applied research. The pragmatic orientation of the program is further enhanced by the program's Professional Advisory Board, which consists of executives from the public and private sector.

Departmental Requirements for Admission

All applicants must have successfully completed at least 3 credits in statistics at either the undergraduate or the graduate level. Three credits in research methods and 3 credits in sociological theory are strongly recommended. An undergraduate major in sociology or other social science discipline is also recommended. General admission requirements for arts and sciences graduate programs apply, including the Graduate Record Exam.

Applicants who do not meet the above requirements in full may apply and request special permission to enter after a mandatory personal interview.



Departmental Requirements for the MS

Completion of the graduate program in social research requires a minimum of 45 credits, which include:

1. Core Courses
 - a. Statistics I (GSR 708), Statistics II (GSR 709), Research Methods I (GSR 710), Research Methods II (GSR 711)
 - b. Contemporary Sociological Theory (GSR 702)
 - c. Workshop in Empirical Research With Computers (GSR 716) Workshop in Applied and Evaluation Research (GSR 717)
2. Electives

15 Credits are taken in courses in the candidate's area of specialization. With permission of the faculty or graduate advisor, students may take some courses in related graduate programs at the City University or other institutions.

3. Research Internship (GSR 718), Thesis Report (GSR 719)

Degree candidates must work as research interns in public or private organizations for a minimum of 3 (full time) or 6 (part time) months. A 9 credit sequence based on the internship includes 6 credits for completion of the internship, and 3 credits for a Thesis Report analyzing results and based on the research carried out during the internship.

The Program can be completed in 2 years on a full time basis, or three years on a part time basis (two courses per semester minimum).

Matriculated students are required to participate in a monthly non-credit research colloquium in which professionals and executives from the private and public sectors discuss research projects and related issues.

Research Facilities and Affiliations

Graduate social research students have access to College-wide research and computing facilities, as well as to GSR program facilities, including a new, fully equipped PC computing lab, a focus group facility, a specialized research collection, and audio-visual recording units. Through past and present internships and through the Professional Advisory Board, the program is connected to

organizations such as Audits and Surveys, CBS, Children's Television Workshop, Cornell University Medical College, Intelsat, the New York City Departments of Planning and of Criminal Justice, McCann-Erickson Worldwide, MTV Networks, Narcotic and Drug Research, Inc., NBC, The New York Times Magazine Group, Philip Morris Time Warner Inc., United Nations, WNET/Channel 13, Yankelovich Skelly and White, and Young and Rubicam.

The graduate social research program is linked to foreign institutions involved in applied social research such as the Polytechnic of Central London, the University of Amiens /E.S.C.A.E., the Kenya Institute of Mass Communication (Nairobi), and the Tata Institute of Social Sciences (Bombay).

PhD and Other Graduate Programs

Students who have entered PhD programs in the social sciences with the MS in social research from Hunter College have been able to transfer 30 to 45 credits toward their doctorates in such fields as philosophy, psychology, and sociology. Other graduates have continued their graduate education in areas like social work, law, business administration, and financial planning.

Universities that have admitted our graduates include: Columbia (social work, business administration, law, psychology, public health-epidemiology, sociology), the CUNY Graduate School and University Center (philosophy, sociology), the Financial Planning Institute, Fordham (sociology, law), the University of Maryland (sociology), the University of New Hampshire (sociology), NYU (sociology), Rutgers (sociology), SUNY/Albany (criminal justice) and the University of Wisconsin/Madison (sociology).

Course Sequence

Full-time study, 2 years

FIRST YEAR

Fall Semester	GSR 702	Contemporary Sociological Theory
	GSR 708	Statistics I
	GSR 710	Research Methods I
	GSR	Elective
Spring Semester	GSR 709	Statistics II
	GSR 711	Research Methods II
	GSR 716	Workshop in Empirical Research with Computers
	GSR	Elective

SECOND YEAR

Fall Semester	GSR 717	Workshop in Applied and Evaluation Research
	GSR 718	Research Internship (6 cr)
	GSR	Elective
Spring Semester	GSR 719	Research Report Seminar
	GSR	Elective
	GSR	Elective

Part-time study, 3 years

FIRST YEAR

Fall Semester	GSR 708	Statistics I
	GSR 710	Research Methods I
Spring Semester	GSR 709	Statistics II
	GSR 711	Research Methods II

SECOND YEAR

Fall Semester	GSR 702	Contemporary Sociological Theory
	GSR	Elective
Spring Semester	GSR 716	Workshop in Empirical Research with Computers
	GSR	Elective
	GSR	Elective

THIRD YEAR

Fall Semester	GSR 717	Workshop in Applied and Evaluation Research
	GSR 718	Research Internship (6 credits)
Spring Semester	GSR 719	Thesis Report Seminar
	GSR	Elective
	GSR	Elective

All courses offered by the program are open to students from other graduate programs provided the appropriate prerequisites are met.

COURSE LISTINGS

Each course 45 hrs, including conferences, 3 cr, unless otherwise noted.

Students must consult the program advisors before registering for courses. Some graduate courses are open to advanced undergraduates with permission of the instructor. Elective courses in areas of specialization are given on a rotating basis.

Core

GSR 702 Contemporary Sociological Theory Conclusions and methodological philosophies of major theorists: functionalists, interactionists, and phenomenologists, and theory construction.

GSR 708 Statistics I Prereq: SOC 241 or equiv. Inferential statistics and introduction to multivariate techniques. Includes use of computer for problem sets.

GSR 709 Statistics II Prereq: GSR 708 with grade of B or better. Topics covered include analysis of variance, multiple regression and other multivariate techniques.

GSR 710 Research Methods I* Prereq: SOC 241 or equiv or perm instr. Application of basic research techniques, field research, focus groups, participant observation, library research.

GSR 711 Research Methods II* Prereq: GSR 710. Basic concepts and methods used in research, research design, measurement, questionnaire construction, sampling.

GSR 716 Workshop in Empirical Research with Computers* Use of micro- and mainframe computers in research; statistical packages, word-processing language, and programming projects with specific research aims.

GSR 717 Workshop in Applied and Evaluation Research* Prereq: GSR 709, 711, and 716. Theoretical and methodological issues in applied evaluation research; achieving agreement on program goals and qualifying goals.

GSR 718 Research Internship* 6 cr. Placement of matriculated student into a research internship under faculty supervision in an approved private or public sector research agency. Internship lasts a minimum of three months (full time) or six months (part time). Execution of a research project applying advanced research methods.

GSR 719 Research Report Seminar* Faculty supervised execution of report covering research done during internship. Report must include definition of research problem, review of relevant literature and methods, and must demonstrate the student's quantitative (or qualitative, if applicable) data analysis skills.

Areas of Specialization

Marketing Research and Consumer Behavior

GSR 721 Marketing Policy and Strategy Marketing principles, procedures and practices; the role of research in marketing decision-making.

GSR 722 Consumer Behavior Cultural, social, and psychological influences on consumer decision-making and consumer satisfaction; consumerism.

GSR 723 Nonprofit and Social Marketing Prereq: GSR 721 or perm instr. Application of marketing and marketing research to non-business organizations.

Media Research and Analysis

GSR 731 Television Programming and Audiences Socioeconomic analysis of television programming and the various audiences served, including the cable universe; review of relevant theoretical approaches, research methods and audience data, patterns of television consumption.

GSR 732 Motion Pictures Analysis of contemporary American motion picture industry: social structure of production, product analysis, audience appeal and marketing; review of relevant theoretical approaches and current research.

GSR 733 The New Electronic Media and Information Markets Investigation of new media and information technologies and the markets they create (optical fibers, high definition TV, home video, DBS, etc.); relation between these media and markets and the class structure; analysis of the consumptive and pragmatic use of information.

GSR 734 Development Media Electronic media use in developing countries with emphasis on television and developmental applications; policy and research issues; case studies (TELEvisa, ARABSAT, SITE, etc.).

Students can take graduate courses in the Department of Communications provided they are directly related to media analysis and research.

Research and Policy Analysis/Nonprofit Sector

GSR 741 Social Policy and Planning Planning procedures and program evaluation in public, corporate, and other private sector settings; sources of error in forecasting.

GSR 742 Public Policy Analysis Theories, concepts, and methods in public policy analysis applied to select policy areas such as social service, criminal justice, and education.

GSR 746 Formal Organizations and Bureaucracy Organizational dynamics in the business, public, and nonprofit sectors.

With appropriate approval, students may take graduate courses offered by the Department of Urban Affairs such as URBG 748 Management Control for Nonprofit Organizations and URBP Health Planning and Policy Issues.

Research and Evaluation

GSR 752* Focus Group Research Theory and application of focus group research. Methodological procedures, conceptualization of research problem, organization of group, listening and probing techniques, analysis of verbal and nonverbal data, report writing.

GSR 753 Critical Analysis of Higher Education Introductory research seminar focusing on problems of higher education in the US. Case studies, policy problems, and basic theoretical and research issues.

GSR 767 Interpersonal Process in Organizations Analysis of social relations in organizations; interpersonal processes in management, conflict negotiations, and interdepartmental relations.

Special Topics Seminars and Independent Research

GSR 790 Special Topics Seminar The program offers experimental special topics seminars. Check with program office for more information.

GSR 791 Independent Research Execution, under faculty supervision, of an individual research project based on a written proposal. With appropriate approval, students may take up to three times.

*Pending final approval (approved by college course of study)

Social Work

The Hunter College School of Social Work
129 East 79th Street, New York, NY 10021
General Information (212) 452-7000

Dean Bogart R. Leashore

Associate Dean Kay W. Davidson

Assistant to the Dean Irene Schaefer

Admissions (212) 452-7055

Director: Angela Ryan

Coordinator of Admissions, Student Records & Field Work Operations
Barbara Thorsen

Alumni Relations/Public Information/Career Placement Director
(212) 452-7031

Continuing Education Coordinator Elizabeth Dane

Field Education

Director of Field Education Carmen Ortiz Hendricks

One-Year Residence Program Coordinator Roberta K. Graziano

Scholarship Coordinator Robert Salmon

FACULTY

Miriam Abramovitz, Professor; MSW, DSW, Columbia

Gary R. Anderson, Professor; MSW, Michigan; PhD, Chicago

Yvonne Asamoah, Associate Professor; MSW, Columbia; PhD, Syracuse

Eleanor Bromberg, Associate Professor; MSW, Smith; DSW, Columbia

Stephen Burghardt, Professor; MSW, PhD, Michigan

Elizabeth Dane, Professor; MSW, Fordham; DSW, Hunter

Kay W. Davidson, Associate Professor and Associate Dean; MS, Columbia; DSW, Hunter

Patricia L. Dempsey, Associate Professor; MS, Columbia

Rose Dobrof, Professor; MSW, Pittsburgh; DSW, Columbia

Irwin Epstein, Professor; MSW, PhD, Columbia

Michael Fabricant, Professor; PhD, Florence Heller Graduate

School for Advanced Studies in Social Welfare, Brandeis

George S. Getzel, Professor; MS, Western Reserve; DSW, Columbia

Muriel Gladstein, Associate Professor; MSW, Boston

Roberta K. Graziano, Assistant Professor; MSW, Smith; DSW, Hunter

Charles Guzzetta, Professor; MSSW, Buffalo; EdD, Temple

Martha F. Haffey, Associate Professor; MSW, Columbia; DSW, Hunter

Carmen Hendricks, Lecturer; MSW, Adelphi; DSW, Yeshiva

Joann Ivry, Assistant Professor; MSW, Simmons; PhD, Ohio State

Paul R. Keys, Professor; MSW, St. Louis; PhD, Wisconsin-Milwaukee

Roselle Kurland, Professor; MSW, PhD, University of Southern California

Paul A. Kurzman, Professor; MS, Columbia; PhD, NYU

Bogart R. Leashore, Professor and Dean; MSW, Howard; PhD, Michigan

Mildred D. Mailick, Professor; MA, Chicago; DSW, Columbia

Elaine Marshack, Associate Professor; MSW, Columbia; DSW, Yeshiva

Marsha Martin, Associate Professor; MSW, Iowa; DSW, Columbia

Yolanda Mayo, Lecturer; MSW, Hunter

Terry Mizrahi, Professor; MSW, Columbia; PhD, Virginia

Ana Paulino, Assistant Professor; MSW, NYU; EdD, Columbia

Sylvia Ridlen, Associate Professor; MSW, Iowa; PhD, Minnesota

Judith Rosenberger, Associate Professor; MSW, Hunter; PhD, Michigan

Angela Ryan, Associate Professor; MSW, Catholic; DSW, Fordham

Robert Salmon, Professor; MSW, NYU; DSW, Columbia

Andrea Savage-Abramovitz, Associate Professor; MSW, PhD, Michigan

Irene Schaefer, HEO Assistant; MA, Virginia

Roger J. Sherwood, Associate Professor; MSW, Illinois; DSW, Columbia

Jayne M. Silberman, Associate Professor; MSS, Smith; DSW, NYU

Michael J. Smith, Professor; MSW, Pennsylvania; DSW, Columbia

Rose Starr, Associate Professor; MSW, Columbia; DSW, Hunter

Malka Sternberg, Lecturer; MSSW, Pennsylvania; EdD, Columbia

Barbara Thorsen, HEO Assistant; MS, Hunter

Florence Vigilante, Professor; MSW, Columbia; DSW, Yeshiva

Harold H. Weissman, Professor; MSW, Pittsburgh; DSW, Columbia

MASTER OF SOCIAL WORK

The Hunter College School of Social Work (founded in 1956) offers a 2-year program leading to the degree of master of social work. This program is accredited by the Council on Social Work Education. The objective of the School is to prepare students for responsible and creative practice in all fields of social work. As the only public graduate school of social work in New York City, the School recognizes a special responsibility toward serving the urban community under social agency auspices.

The School believes that education for social work proceeds from a common core of values and knowledge incorporated into a practice skill. Basic courses forming the educational foundation for all students are offered in the following areas: social work in education; social work in family, youth, and adult development; social work in health; social work in protection and social justice; and social work in the world of work. Content in these courses includes orienting knowledge covering human and societal needs and resources; social welfare program design and policy; social work research with emphasis on accountability and evaluation; and methods of social work practice. Agencies in the various areas of practice provide the field experience for students with qualified agency supervisors as field instructors. Elective courses are offered in the School of Social Work as well as in other graduate departments of Hunter College. Students participate with faculty and administration in policy formulation, curriculum development, and review of student performance.

The one-year residence (OYR) program, established in September 1971, provides an alternative pattern of professional education for social work for a selected group of students. Individuals are eligible to apply if they have completed a minimum of 2 years of full-time successful employment as a social worker without a master's degree in recognized social welfare institutions. Students are permitted to take up to 30 hours of course work on a part-time basis in evening classes while remaining in full-time employment. The program is usually completed in 5 semesters including summer work and an academic year in residence. The total field instruction requirement is completed in the residence year. Usually the fieldwork takes place in the agency in which the student has been employed. The program is designed particularly to provide access to the master of social work for students whose financial and family responsibilities make the 2-year full-time program impractical. As in all of the programs in the Hunter College School of Social Work, 5 years is the maximum period of time for the attainment of the degree.

Beginning with January 1983, an 80-credit, dual-degree program leading to an MSW in social work and an MS in dance therapy became available. For details see page 56.

The School aims to bring into the field graduates who are able to make responsible decisions and value choices in a rapidly changing society. The development of competence in one or more of the practice methods (administration, casework, community organization, or group work) is expected.

The general Hunter College information section, found on pages 1-16, should be studied in conjunction with the School of Social Work's special requirements and policies, which follow.

Requirements for Admission

Applicants must hold a bachelor's degree from an accredited college with a liberal arts education. Undergraduate performance should demonstrate intellectual capacity for graduate study. Records of foreign students require special evaluation and should, therefore, be submitted as early as possible. All applicants with foreign credentials are required to take the TOEFL.

Successful performance in graduate social work education requires emotional maturity and stability, interest in working with people, readiness to assume professional responsibilities, and satisfactory physical health. The applicant's knowledge of professional social work and/or experience in social work settings is an important consideration for admission. Applicants may be required to participate in interviews.

Completed applications for admission should be submitted by the deadline date established by the School each year. All admissions are subject to limitation of available space in the School and placement in the field.

Up to 12 credits (9 from Hunter College) of prior acceptable graduate work (no more than 6 credits in non-social work areas) with a grade of B or better from an accredited program can be transferred toward the School's degree requirements. Matriculated students who wish to request credit toward their degree for work taken prior to matriculation at Hunter College are required to apply for transfer of credit after their first term in attendance as matriculants.

As a condition for registration for placement in the field, students must have health insurance and professional liability insurance. For students without personal health insurance, plans are available through Hunter College. In addition to health insurance, professional liability insurance is provided through a School group policy, and payment for this policy is made at the time of registration. The cost does not exceed \$20 per year.

Inquiries and Application

Applicants for full-time matriculation can obtain further information and admission forms from the Admissions Office, Hunter College School of Social Work, 129 East 79th Street, New York, NY 10021. Phone: (212) 452-7055.

Application forms and information regarding non-matriculation are obtained at the Office of Graduate Admissions, Hunter College, 695 Park Avenue, New York, NY 10021. Space availability for non-matriculants is extremely limited. The deadline for filing applications may precede the general college deadline.

Staff is available at the School of Social Work by appointment to advise non-matriculated students. Call (212) 452-7055 for an appointment or write to 129 East 79th Street, New York, NY 10021, for additional information on courses available to non-matriculated students.

Maintaining Matriculation and Leaves of Absence

A matriculated student who has completed course work but whose record includes incomplete grades should check regulations concerning maintenance of matriculation at the Hunter College Registrar's Office.

Students must register for courses each semester in order to maintain their matriculated status. Otherwise, a leave of absence for a specific period must be requested and may be approved upon application to the School of Social Work Coordinator of Change of Status. Students returning from a leave must be readmitted by the Coordinator of Change of Status or the Admissions Committee.

Requirements for the Degree

A total of 60 credits is required for the master's degree. Students in the 2-year program generally meet these requirements in 4 semesters of full-time study; students in the one-year residence program generally meet them in 5 semesters, plus summers, of

full- and part-time study. In special circumstances, consideration can be given to other plans for completing the course of study.

In their last semester, students are expected to complete a seminar which assists in the preparation of a major paper having as its central focus a practice issue of concern to them. The paper requires the student to utilize research findings, scholarly works, and personal professional experience to consider how the current state of knowledge, current thinking on policy, and current approach to practice affect the resolution of the practice issue.

Transfer students will be considered for admission into the second year if they have successfully completed the first year of social work at an accredited graduate school of social work, including field practicum. To meet the degree requirements, they must successfully complete a minimum of 30 credits at the Hunter College School of Social Work as well as our required core courses, all within the official 5-year time limit.

Opportunities for waiver examinations are offered to newly admitted students each year in the fields of social policy, human behavior and the social environment, and research. Those students who feel they are knowledgeable in these areas, even though they have no formal graduate study to transfer, may avail themselves of this opportunity to be exempted from initial required courses. Exemption does not carry credit and students receiving waivers must still complete 60 credits of academic work for the degree.

New courses and changes in existing course work are initiated by various individuals and groups in the School, and must be approved by the curriculum committees and the Dean. Such additions to the curriculum for the ensuing year are published each fall in the School of Social Work Handbook. A copy of the program outline, which reflects any changes, is available on request.

Curriculum

The School of Social Work curriculum is organized around 4 practice methods and 5 fields of practice:

Social Work in Education—Formal and Informal and Community Development

Social Work in Family, Youth, and Adult Development

Social Work in Health

Social Work in Protection and Social Justice

Social Work in the World of Work

These 5 fields of practice consist of a faculty coordinator; faculty members whose practice experience and expertise are in the field of practice; the fieldwork agencies whose primary services and programs are in this area; and the students—both first and second year—who are placed in these agencies. The faculty groups for each field of practice are selected not only for their expertise, but also in such a way that each field of practice faculty group includes persons whose major teaching assignments are in: methods (administration, casework, community organization, group work); social policy and program design; human and societal need and resources; accountability and evaluation; and field practicum.

Faculty assume the responsibility for the assignment of incoming and second-year students to their field practicum agencies in one of the 5 fields of practice. An assessment is made by faculty regarding the students' educational needs and interests. Faculty consultation then takes place with the available field practicum agencies, and an appropriate assignment is made.

Field of practice faculty (both classroom and field) meet with students periodically during the course of the academic year. Usually, each student's faculty advisor will be a member of the faculty of the field of practice to which the student is assigned.

SCHOLARSHIP AND FINANCIAL AID

Financial aid from CUNY, the School of Social Work, and a number of government sources is administered by the School. Only applicants accepted for admission to the 2-year program will be considered for financial aid. Information concerning the various forms of financial aid will be forwarded to all accepted students. Students may also apply directly to public or private agencies for grants or loans.

DOCTORAL AND POST-MASTER'S PROGRAMS

A doctorate of social welfare (DSW) is offered through the CUNY Graduate Center. Courses are taught by School of Social Work faculty at the School of Social Work building. See *Bulletin of the Graduate School* for description of the DSW program and the complete list of courses.

Current advanced certificate programs (non-degree) include:

Post-master's Program in Advanced Clinical Social Work

Post-master's Program in Aging

Post-graduate Program in Social Work Administration

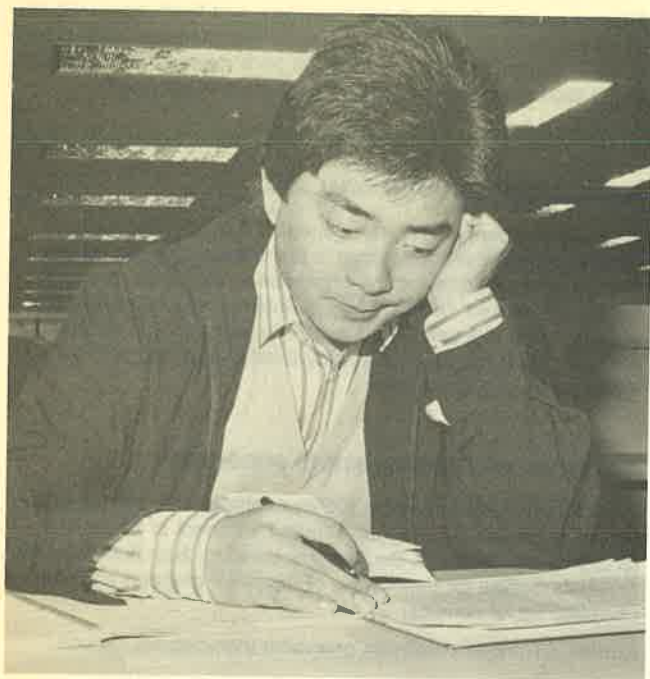
COURSE LISTINGS

Each course 45 hrs, 3 cr, unless otherwise noted.

Note: Detailed course descriptions and additional information are available in the School of Social Work Catalogue, which can be obtained from the Admissions/Student Records Office at the School. Phone: (212) 452-7055.

*SSW 701	Social Welfare Policy & Services I
SSW 702	Social Welfare Policy & Services II
*SSW 705.50	The Black Community and Social Welfare
*SSW 705.51	The Puerto Rican Community and Social Welfare
SSW 711	Human Behavior and the Social Environment I
SSW 712	Human Behavior and the Social Environment II
SSW 713	Human Behavior and the Social Environment III
SSW 715	Seminar in Psychodynamics 30 hrs, 2 cr
SSW 716	Comparative Theories of Personality and Systems of Psychotherapy 30 hrs, 2 cr
SSW 719	Foundations of Social Work Practice 30 hrs, 2 cr
SSW 721	Social Casework I 30 hrs, 2 cr
SSW 722	Social Casework II
SSW 723	Social Casework III
SSW 724	Social Casework IV: With Individuals/Pairs/Families 30 hrs, 2 cr
SSW 725	Social Casework I Elective 30 hrs, 2 cr. For non-majors
SSW 726	Social Casework II Elective 30 hrs, 2 cr. For non-majors
SSW 731	Social Group Work I 30 hrs, 2 cr
SSW 732	Social Group Work II
SSW 733	Social Group Work III
SSW 734	Social Group Work IV 30 hrs, 2 cr. Comparative group approaches for social work

*Courses open to non-matriculated students.



- SSW 735 Social Group Work I Elective 30 hrs, 2 cr. For non-majors
 SSW 736 Social Group Work II Elective 30 hrs, 2 cr. For non-majors
 SSW 741 Community Organization and Planning I 30 hrs, 2 cr
 SSW 742 Community Organization and Planning II
 SSW 743 Community Organization and Planning III
 SSW 744 Community Organization and Planning IV 30 hrs, 2 cr
 SSW 747 Community Organization—Multi-method 30 hrs, 2 cr
 SSW 748 Grantsmanship and Proposal Writing 30 hrs, 2 cr
 SSW 751 Social Work Research I
 SSW 752 Clinical Uses of Research 30 hrs, 2 cr
 SSW 758 Tutorial 1, 2 or 3 cr
 SSW 760.50 Field Instruction I—Dance Therapy/Social Work
 SSW 761 Field Instruction I 4 cr
 SSW 761.50 Field Instruction—Dance Therapy/Social work
 SSW 762 Field Instruction II 5 cr
 SSW 763 Field Instruction III 5 cr
 SSW 764 Field Instruction IV 5 cr
 SSW 767 Field Instruction I (OYR) 9 cr
 SSW 768 Field Instruction II (OYR) 10 cr
 *SSW 770 Alcohol and Drug Abuse: Social Work Practice 30 hrs, 2 cr
 SSW 773 Social Work Ethics 30 hrs, 2 cr
 SSW 780 Administration of Social Work Agencies
 SSW 781 Social Welfare Administration I
 SSW 782 Social Welfare Administration II
 SSW 783 Social Welfare Administration III
 SSW 786 Advanced Administration 30 hrs, 2 cr. Elective for non-majors
 SSW 787 Supervision 30 hrs, 2 cr
 SSW 790 Professional Seminar
 SSW 790.50 Professional Seminar in Arts & Helping
 SSW 791 Special Topics in Social Work 30 hrs, 2 cr
 SSW 792 Social Work Practice with Children, Adolescents, and their Families 30 hrs, 2 cr
 SSW 793 A Multi-method Approach to Social Work Practice with the Aged 30 hrs, 2 cr
 SSW 796 Social Work Practice with Selected Populations 30 hrs, 2 cr
 SSW 797 Special Topics in Social Work 30 hrs, 2 cr
 SSW 798 Multicultural Social Work Practice 30 hrs, 2 cr

*Courses open to non-matriculated students.

FIELD PRACTICUM

Field practicum is an integral part of the social work curriculum. Agencies used as field-training centers by the School are selected and approved by the School's field practicum office, based upon the learning experience available to students, the personnel designated as student field instructors in the agency, and other School requirements. Students are expected to follow agency policies, including participation in home visits.

Field Practicum Centers The following agencies were those recently used by the School.

Family, Youth, and Adult Development Field of Practice

Ackerman Family Institute
 Association for Help to Retarded Children
 Barrier Free Living, Inc.
 Beacon of Hope House, Inc.
 Bedford-Stuyvesant Mental Health Clinic
 Bensonhurst Guidance Center
 Big Sisters/Brooklyn Counseling Services
 The Bridge, Inc.
 Brooklyn Psychiatric Centers
 Brookwood Child Care
 Builders for Family and Youth
 Cancer Care, Inc.
 Catholic Charities — Diocese of Brooklyn
 Center for Family Life in Sunset Park
 The Children's Aid Society
 Childron's Village
 Dominican Sisters
 Dorot, Inc.
 Family Services of Bergen County
 Fifth Avenue Center for Counseling & Psychotherapy
 Fordham Tremont Community Mental Health Center
 The Guidance Center
 Hamilton-Madison House
 Harlem-Dowling Westside Center for Children & Family Services
 Hunts Point Multiservice Center
 Institute for Human Identity
 Jewish Association for Services to the Aged
 Jewish Board of Family & Children's Services
 Jewish Child Care Association
 Jewish Community Services of Long Island
 Jewish Guild for the Blind
 Little Flower Children's Services
 Louise Wise Services
 Lutheran Social Services
 Mid-Bergen CHMC
 NYC Department for the Aging
 NYC Department of Social Services
 Human Resources Administration
 Child Welfare Administration
 New York Service Program for Older Persons
 New York State Office of Mental Health,
 Mental Retardation and Alcoholism Services
 Bernard Fineson Developmental Center
 Northside Center for Child Development
 Queens Child Guidance Center
 Rain Multiservices for Seniors
 Raritan Bay Mental Health Clinic
 Riverdale Mental Health Center
 St. Dominic's Family Service Center
 St. Joseph Children's Services
 St. Mary's Children & Family Services
 Self-Help Community Services
 Senior Action in a Gay Environment
 Sheltering Arms Children's Services
 Society for Seamen's Children
 Soundview-Throgsneck Community Mental Health Clinic
 Southeast Nassau Guidance Center
 Sydenham Neighborhood Family Care Center
 Talbot Perkins Children's Services
 Union Settlement/Children's Intensive Case Management Program

United Cerebral Palsy of Westchester and
Unified Creative Programs
Young Adult Institute

Education—Formal and Informal and Community Development Field of Practice

AARP/UN
Big Sisters/Manhattan Counseling Services
Big Sisters/South Bronx Family Center
Citizens' Advice Bureau
City Volunteer Corps
Cypress Hills Local Development Corporation
District 26 Drug Prevention Program
Educational Alliance
Educational Center for Community Organization
Forest Hills Community House
Goddard-Riverside Community Center
Good Shepherd Services
Grand Street Settlement
Herbert G. Birch School for Exceptional Children
Hudson Guild
Hunter College/CUNY Student Counseling Services
Interfaith Neighbors
Inwood House
La Guardia Community College/CUNY
League School/Morgan Stanley Forest Hill
Day Treatment Program
Lenox Hill Neighborhood Association
Liberty Partnership Program/Rheedlen Foundation
Manhattan Borough President's Office
NASW—New York City Chapter
NYC Board of Education
NYC Department of Youth Services
NYC Technical College — Access Center
Operation Get Ahead
Queensboro Council for Social Welfare
Settlement Housing Fund, Inc.
Special Services for Senior Citizens
Stanley Isaacs Neighborhood Center
These Our Treasures

Social Health Field of Practice

Bellevue Hospital Center
Beth Abraham Hospital
Beth Israel Medical Center
Blythedale Children's Hospital
Bronx Children's Psychiatric Center
Bronx-Lebanon Hospital — Fulton Division
Bronx Psychiatric Center
Cabrini Medical Center
Caribbean Women's Health Center
Catholic Medical Center/Mary Immaculate Hospital
Cobble Hill Nursing Home
Community Services Continuing Treatment Program
c/o Bellevue Hospital
Creedmoor Psychiatric Center
Gay Men's Health Crisis Center
Gouverneur Hospital
Hillside/Long Island Jewish Medical Center
International Center/Disabled (ICD)
Jewish Home and Hospital for the Aged
Kingsboro Psychiatric Center
Lenox Hill Hospital
Maimonides Medical Center
Manhattan Psychiatric Center
Mary Manning Walsh Nursing Home
Middletown Psychiatric Center
Montefiore Hospital Center
Mt. Sinai Hospital Medical Center
NYC Department Health—Div. of AIDS Services
The New York Hospital
NYS Psychiatric Center
Oxford Nursing Home
Presbyterian Hospital
Queens Hospital

St. John's Episcopal Hospital
St. Luke's Roosevelt Hospital Center
St. Vincent's Hospital
Samuel Field YM/YWHA
South Beach Psychiatric Center
Transitional Services for New York
United Cerebral Palsy
University of Med. & Dentistry for N.J. CMHC
U.S. Dept. of Veterans Affairs — Brooklyn Medical Center
Village Nursing Home
Weston United Community Renewal
Wm. F. Ryan CHC, MH Department
Woodhull Medical & Mental Health Center

Protection and Social Justice Field of Practice

AIDS Resource Center
American Red Cross — Greater NY
Athena Project
Beth Israel Medical Center
Children's Aid Society
Community Pride Project
Educational Alliance
Elizabeth Coalition to House the Homeless
Freedom Institute
Freeport Hospital
Goddard-Riverside Community Center
Greenwich House Counseling Centers
Hebrew Immigrant Aid Society
Hetrick-Martin
Highbridge-Woodcrest Center
Institute for Families & Children
Kings County Hospital Center
Legal Aid Society
Lower East Side Service Center
Metropolitan Coordinating Council on Jewish Poverty
Montefiore Medical Center — Rikers Island Health Services
NYC Department of Housing Preservation & Development —
Office of Property Management
NYC Department Juvenile Justice
NYC Gay & Lesbian Anti-Violence Project
NYC Mayor's Office on Homelessness
Outreach Project
Peninsula Counseling Center — Alcott Counseling Services
Project Connect
Project Return Foundation, Inc.
St. Joseph Social Services Center
St. Luke's-Roosevelt Medical Center
Single Parent Resource Center
Urban Pathways
US Probation
Victim Services Agency
Women in Need (WIN)

World of Work Field of Practice

The Actor's Fund of America
Bellevue Hospital Center
Building Trades Employees Assistance Association
Employees Assistance Program
Central Labor Rehabilitation Council
District Council 37
Employee Development Center/Cornell Medical College
Employment Program for Recovered Alcoholics
Federal Employees Counseling Services
Federation Employment & Guidance Service
Henry Street Settlement
Hunter College EAP
International Ladies Garment Workers Union
Institute for Community Living
Local 1199 Drug, Hospital & Health Care Employment Union
Mt. Sinai Hospital Medical Center EAP
NY ANA
NYC Department of Transportation — Employees
Assistance Program
Private Industry Council of the City of New York
St. Luke's-Roosevelt Medical Center
YWCA of New York

Theatre

Chair Mira Felner, North Building room 336 phone 772-5148
Graduate Advisors Mira Felner and Jonathan Kalb, North Building room 528 phone 772-5148 or 772-5149

FACULTY

Claire Bloom, Visiting Distinguished Professor; Acting
Barbara Bosch, Assistant Professor; PhD, Berkeley; Acting, Directing
Ian R. Calderon, Professor; MFA, Yale; Lighting Design, Visual Elements, Theatre Architecture, Dramatic Television
Ruby Dee, Visiting Professor; BA, Hunter; Acting
Mira Felner, Professor; PhD, NYU; Theatre History, Acting and Directing Theory
Tina Howe, Visiting Professor; BA, Sarah Lawrence; Playwriting
Jonathan Kalb, Assistant Professor; DFA, Yale; Dramaturgy, Dramatic Criticism, Theatre History
Stanley Kauffman, Visiting Professor; BA, NYU; Dramatic Criticism
Daniel Koetting, Associate Professor; MFA, Yale; Design and Production
Harry Lines, Associate Professor; MFA, NYU; Design, Visual Elements, Popular Entertainment
Vera Mowry Roberts, Professor Emeritus; PhD, Pittsburgh; Theatre History
Michael E. Rutenberg, Professor; DFA, Yale; Directing, Acting, Playwriting
Marvin L. Seiger, Professor; PhD, Indiana; Theory, Criticism, Playwriting
Patricia S. Sternberg, Professor; MA, Villanova; Developmental Theatre, Creative Dramatics, Theatre for Youth
Edwin Wilson, Professor Emeritus; DFA, Yale; Playwriting, Theory and Criticism

MASTER OF ARTS

The MA program in theatre is designed to offer concentrated study in the areas of theatre history, theory, and criticism; dramaturgy; production and performance studies; playwriting; and developmental drama. The curriculum integrates theory with practice and accommodates the various backgrounds and career goals of theatre professionals, dramaturgs, and educators. Most students continue professional work or go on to PhD programs. In addition to the permanent faculty, well-known theatre artists, critics, and scholars teach on a part-time basis.

Individual counseling is an integral part of the program. Through meetings with the graduate advisor, a program of study that meets each student's needs is developed.

The Hunter Playwrights Project offers playwriting students the opportunity to see their work performed in staged readings or in productions with professional actors and directors.

Students concentrating in dramaturgy will work in internship programs at professional theatre companies.

Departmental Requirements for Admission

General admission requirements to the graduate program in the arts and sciences are observed.

Departmental Requirements for the Degree

Courses Each candidate must complete an approved program of study of at least 30 credits, including THC 702, 751, 752, 790, and the master's essay, to be written as part of THC 799. Courses other than those in the Department of Theatre and Film may be applied toward the 30 credits with the approval of the graduate advisor, but may not exceed 9 credits. Not more than 9 credits may be transferred from non-matriculated to matriculated status.

Examination The student is required to pass a comprehensive examination consisting of 2 hours covering general knowledge in

theatre history, criticism, and production, and one hour covering one area of specialization chosen by the student. The department also requires a proficiency examination in one foreign language.

Master's Essay The candidate for the degree must present a master's essay of about 50 pages approved by the department and supervised by 2 appropriate members of the faculty. The essay is to be written in conjunction with THC 799. With special permission of the Graduate Committee, advanced students in playwriting may submit in lieu of the master's essay a completed full-length play together with an introductory essay.

DOCTOR OF PHILOSOPHY

The City University of New York offers a PhD program in theatre. See the *Bulletin of the Graduate School* for a description of the PhD program and the complete list of courses. Students take their courses where they are offered, in any of the branches of CUNY and at the Graduate School and University Center.

COURSE LISTINGS

Each course 30 hrs, including conferences, 3 cr, unless otherwise noted.

THC 701 Theatre Research and Bibliography Introduction to theatre research, bibliography, and critical methodology.

Theatre I History, Theory, and Criticism

THC 702 History of Theatrical Theory and Criticism Study of major theorists and critics, including Aristotle, Hegel, Brecht, and Artaud.

THC 703 Development of Dramatic Structure I Analysis of dramatic structure of representative major plays of the Greek, Roman, Medieval, and Renaissance playwrights.

THC 704 Development of Dramatic Structure II Analysis of dramatic structure in representative major plays of 18th- to 20th-century playwrights.

THC 705 Theatre in Society Study of influence of social, philosophical, and religious concepts on content and form of modern theatre.

THC 710 Studies in Dramatic Genre Theories and changing forms of traditional theatrical genres: tragedy, comedy, tragi-comedy, farce, melodrama. May be repeated for credit.

THC 711 Theatre Criticism Analysis of practical modern criticism.

THC 751 History of Theatre I Study of development of composite arts of theatre and their interaction in production, from origins to 1700.

THC 752 History of Theatre II Study of development of composite arts of theatre and their interaction in production, from 1700 to the present.

THC 753 History of American Theatre Theatre in United States from Colonial times to present, with emphasis on its importance as social and cultural force.

THC 760 Studies in Theatre History and Production Intensive study of history and theory of one of the component arts of theatre. Subjects announced in advance. May be repeated for credit.

Dramaturgy

THC 761 Dramaturgy Research and Case Studies 45 hrs, plus hrs to be arranged, 3 cr. Consideration of general problems of production research, including its application in rehearsal; specific examples will be analyzed.

THC 762 History of Directing 45 hrs, 3 cr. Seminar on the history of the directing profession, with emphasis on innovative 19th- and 20th-century artists.

THC 763 Dramaturgy Workshop 45 hrs, 3 cr. Prereqs: THC 751, 752, 791, or perm instr. Workshop in the theory and practice of production dramaturgy emphasizing performance projects conceptualized by students working in director-dramaturg pairs.

THC 764 Translation Workshop 45 hrs, 3 cr. Prereq: perm instr. Workshop in the theory and practice of translating plays. Each student will translate a play or other theatre-related text during the semester.

THC 765 Dramaturgy Practicum Hrs to be arranged, 3 cr. Prereqs: THC 761, 762, 763, or perm instr. Independent study as a dramaturgy-assistant at a local professional theatre, supervised by a faculty member. May be repeated twice for credit.

Studies in Production and Performance

THC 730 Harold Clurman Seminar in Theatre A seminar named in honor of Harold Clurman that features guest artists from the professional theatre discussing various aspects of theatre.

THC 754 Contemporary Styles of Production Theories in style and method of dramatic production.

THC 755 Visual Elements of Theatre I Study and practice of director's and playwright's conceptual approach to visual requirements of plays.

THC 756 Visual Elements of Theatre II Prereq: THC 755. Study and practice of scene and lighting design with special emphasis on their value to the director as important interpretative tools.

THC 785 Theories and Styles of Acting 45 hrs, 3 cr. Intensive study in theories and techniques of acting, with emphasis on historical and modern styles.

THC 791 Advanced Directing and Rehearsal 45 hrs, 3 cr. Study of problems in play direction, with practice in presentation of scenes and plays.

THC 792 Special Problems in Directing 45 hrs, 3 cr. Prereq: THC 791. Interrelation of director and playwright through project work on original scripts.

Developmental Drama

THC 776 Creative Dramatics 45 hrs, 3 cr. Theory and technique of guiding children in creativity through dramatizing stories, poetry, life experiences.

THC 777 Theatre for Youth 45 hrs, 3 cr. Study of dramatic literature for children and its production for child audiences. Actual participation in production of plays for children.

THC 778 Sociodrama 45 hrs, 3 cr. Prereq: perm instr. Theory and methods of role-playing and role-reversal techniques for group social situations.

THC 779 Participation Theatre for Child Audiences 45 hrs, 3 cr. Prereq: THC 776 or perm instr. Conception, organization, and development of ensembles that use a variety of direct and indirect methods of involvement for and with child audiences.

THC 780 Drama for Therapeutic Uses 45 hrs, plus addnl hrs for on-site visits, 3 cr. Prereq: perm instr. Techniques of drama therapy with institutionalized and/or out-patient groups. Classroom lectures and practicum with supervised field-work observations.

Playwriting

THC 790 Play Analysis Study of structural elements of play essential to playwright and director.

THC 793 Playwriting I 45 hrs, 3 cr. Study of techniques of playwriting based on student's own work with special emphasis on scenes and one-act form.

THC 794 Playwriting II 45 hrs, 3 cr. Prereq: THC 793. Writing and criticism of original material with emphasis on full-length form.

THC 795 Seminar in Playwriting and Directing 45 hrs, 3 cr. Prereq: THC 794 or 792. Designed for playwrights at work on new scripts and for directors desirous of staging original material. May be repeated for credit.

THC 796 Film Writing 45 hrs, 3 cr. Study of problems of writing for film. Students are required to prepare original scripts for class critique.

Independent Research and Special Topics

THC 720 Independent Research Hrs to be arranged. 1-3 cr. Prereq: perm instr. Directed program of reading, research, or creative presentation under supervision of graduate faculty member.

THC 725 Special Topics Studies in specialized areas of theatre. May be repeated for credit.

Thesis

THC 799 Master's Essay 3 cr. Individual research under supervision, leading to master's essay or equivalent.

Urban Affairs and Planning

Chair Eugenie L. Birch, West Building room 1611 phone 772-5519

Graduate Program in Urban Planning

Program Director and Advisor Peter D. Salins, West Building room 1614 phone 772-5593

Graduate Program in Urban Affairs

Program Director and Advisor Elaine M. Walsh, West Building room 1606 phone 772-5515

FACULTY

Eugenie L. Birch, AICP, Professor and Chair; PhD, Columbia; Planning History, Planning Theory, Demography

Hilda Blanco, Associate Professor; PhD, Berkeley; Land Use, Planning Theory, Budgeting, Policy Formulation

Herbert H. Hyman, Professor; PhD, Brandeis; Health, Social Planning

Steven J. Johnston, AICP, Assistant Professor; BArch, PhD, Columbia; Urban Design, Land Use Planning

Peter Kwong, Professor; PhD, Columbia; Asian-American Studies

William J. Milczarski, AICP, Assistant Professor; PhD, Michigan;

Transportation, Environmental Policy, Methodology

Stanley Moses, Professor; PhD, Syracuse; Education, Employment, Planning Theory

Peter D. Salins, AICP, Professor; BArch, PhD, Syracuse; Urban Spatial Theory, Land Use, Real Estate Economics

Sigmund C. Shipp, Assistant Professor; PhD, Cornell; Economic Development, Urban Theory, Development Planning

Hans B.C. Spiegel, AICP, Professor; EdD, Columbia; Community Development

Elaine M. Walsh, Associate Professor; DSW, Fordham; Organizational Development, Social Policy, Strategic Planning

Urban Research Center

The Urban Research Center was established to expand scholarship in urban and metropolitan affairs, to stimulate new ideas and procedures, and to involve faculty and students in urban research projects. It serves as the research and services arm of the Department of Urban Affairs and Planning. The center frequently functions as a liaison between governmental and social agencies and Hunter College. As a clearinghouse service for both the College faculty and the community, the Urban Research Center refers specific problems to members of its staff for study. In this connection, it plans and coordinates urban research projects and sponsors faculty seminars.

Research studies cover such areas as the economics of urban housing, urban transportation, and of medical care, comparative urban bureaucracy, effects of air pollution, urban renewal, urban political behavior, intergovernmental relations, urban ecology, and urban juvenile delinquency. Urban Research Center activities present opportunities for graduate students to work as graduate assistants and to pursue research and applied work in a close working relationship with faculty members. Some of the center's studies serve as subjects for theses.

Two Master's Degree Programs

The Department of Urban Affairs and Planning offers two graduate programs: one leading to the master of urban planning (MUP) and the other leading to the master of science in urban affairs.

Urban Affairs/Urban Planning Fellowships and Grants

The Department of Urban Affairs and Planning has a limited amount of financial aid. It includes the Donald G. Sullivan Scholarship, the Robert C. Weaver Scholarship and the James Felt Scholarship, awarded to selected students pursuing a master's degree in urban affairs or urban planning.

For information write to: Chair, Hunter College, Department of Urban Affairs and Planning, 695 Park Ave, New York, NY 10021.

MASTER OF URBAN PLANNING

The master of urban planning program has 3 integrated components: a core curriculum, an area of concentration, and a studio. Its purpose is to train planners who, like their counterparts throughout the nation, share a general expertise in theory, methods, and urban structure, have a specialized knowledge of a policy planning area, and have the skills and intellectual maturity to operate in the professional arena.

The 60 credit program is structured to provide students with the expertise essential to professional practice and to allow for maximum flexibility to accommodate individual interests. The core curriculum (27 credits) provides basic training in planning. It has a dual purpose: to place planning in its societal context and to teach the skills of the profession. The area of concentration (12 credits) allows for in-depth training in a specific subfield of general planning practice. The studio (6 credits) provides experience in applied planning. Unrestricted electives (15 credits) allow for the exploration of a range of planning topics.

The program encourages students to undertake internships or independent research. As interns, they may work for city and suburban planning agencies, neighborhood development groups, banks, municipal housing or budgeting units, planning journals, and other groups approved by the department. For many students, field experiences have led to full-time employment in their internship agencies after graduation.

In addition, the department has several internal work opportunities generated by the faculty and the Urban Research Center. Faculty members routinely include in their research grant proposals funds to support graduate research assistants. In the past, these assistantships have included conducting interviews for a study of citizen participation, editorial assistance for an analysis of New York City demographic and economic trends, data collection for an affordable housing project, and field observations reviewing the social impacts of specific public investments.

In organizing their programs, students work closely with faculty advisors. Prior to the first semester, students outline their proposed 2-year curriculum plans. Reviewing the plans at the end of each term, students may make modifications according to their changing interests. This encourages students to define clear academic and professional objectives in order to plan orderly progress toward achievement of their degrees and entry into the field.

The Hunter College graduate program in urban planning conforms to the national standards for professional education as formulated by the Planning Accreditation Board of the American Planning Association, the Association of Collegiate Schools of Planning, and the American Institute of Certified Planners.

Students with multiple professional interests may wish to pursue joint degree programs with other New York universities. For example, a joint master of urban planning/juris doctor, available through a cooperative program with Brooklyn Law School, allows students to earn the 2 degrees in 4 years. Other joint degree programs may be pursued with the approval of the department.

Requirements for Admission to the Planning Program

The graduate program in urban planning draws its students from varied backgrounds. Traditionally, most come from the social sciences (economics, geography, sociology, political science, and urban and American studies), engineering, and architecture. English majors and students of religion, art history, and business have also enrolled.

While many students enter Hunter directly from undergraduate study, a large percentage have spent time away from school and return to develop their knowledge and expertise or to prepare for a new career.

Applicants must meet the general admission requirements for Hunter graduate programs. These include the submission of transcripts, Graduate Record Examination scores, and 2 letters of recommendation, along with a completed application form obtained from the admissions office. All applicants are encouraged to visit the department and meet with the program director and faculty.

Requirements for the Master of Urban Planning

The degree requires 60 credits of graduate study. Of these, 45 must be selected within course offerings of the Hunter College graduate program in urban planning. With the approval of the department, 15 credits may be elected from other graduate programs.

Students are expected to be computer literate upon entering the program. The department will assess candidates during the orientation period to verify literacy. Those who are not literate will be directed to appropriate resources to aid their achieving this goal by completion of their first year of study.

Students are also encouraged, but not required, to participate in internships during their course of study.

Credits are distributed as follows:

- Core Curriculum (27 cr)**
- Area of Concentration (12 cr)**
- Planning Studio (6 cr)**
- Unrestricted Electives (15 cr)**

The Core Curriculum

The core curriculum has 4 sections. Students must take required courses within each and elect others as designated. Students may take up to 9 credits in the core per semester.

Theories and Process of Urban Planning (6 cr)

- URBP 705 Introduction to the Planning Process
- URBP 701 History of Planned Urban Development

Urban Structures (6 cr)

- URBP 719 Introduction to Land Use Planning
- URBG 702 Structure of the Urban Community

Public Policy and Law (9 cr)

- URBP 720 Law of Land Use Regulation I
- URBG 706 Introduction to Policy Analysis
- URBP 747 Planning in the Budget Process

Planning Methods and Information Management
(normally 9 cr; 6 cr if URBG 710 is waived)

URBG 710 Urban Data Analysis (qualified students may apply for a waiver)
URBP 711 Planning Information
URBP 712 Planning Methods of Analysis and Forecasting

Areas of Concentration

The graduate program offers the following areas of concentration: housing and real estate, economic development, land use and design, transportation and environment, human services, and general practice. In general, each concentration is designed to give the student a working knowledge of a broad functional area. To fulfill the concentration requirement students select 4 courses from the suggested list.

Students with special interests may create their own concentration. In developing their programs, students may combine Hunter courses with the resources of the larger City University community or other approved institutions. Some individually tailored specializations might be international planning and development, budgeting and management, and advanced data analysis.

Representative Courses in the Areas of Concentration

Housing and Real Estate

URBG 727 Introduction to Housing
URBG 728 Housing and Community Development Seminar
URBG 730 Law of Housing and Urban Development
URBP 731 Neighborhood Planning Workshop
URBG 742 Economics of Real Estate Development

Economic Development

URBG 740 Planning for Economic Development
URBG 741 Employment Planning and Policies
URBP 746 Planning and Public Finance
URBG 751 Educational Planning and Policies

Land Use and Design

URBP 721 Law of Land Use Regulation II
URBP 722 Land Use Planning Workshop
URBP 723 Introduction to Urban Design
URBP 724 Urban Design Workshop
URBP 725 Infrastructure and Site Planning
URBP 726 Site Planning Workshop

Transportation and Environment

URBP 732 Introduction to Transportation Planning
URBP 733 Transportation Planning Methods and Models
URBP 734 Environmental Planning
URBP 735 Law of Environmental Planning

Human Services

URBG 741 Employment Planning and Policies
URBG 750 Social Planning
URBG 751 Educational Planning and Policy
URBP 753 Planning Services for New Types of Family Composition
URBG 755 Planning for Community Development and Implementation
URBG 756 Citizen Participation in Planning and Development
URBP 760 Health Planning and Policy Issues
URBG 762 Health Regulation
URBG 791 Urban Development Workshop II

General Practice

URBP 725 Infrastructure and Site Planning
URBG 727 Introduction to Housing
URBP 731 Neighborhood Planning Workshop
URBP 732 Introduction to Transportation Planning
URBG 755 Planning for Community Development and Implementation
URBG 756 Citizen Participation in Planning and Development

Planning Studio

To solidify knowledge and skills gained in the core curriculum and other courses, students are required to participate in a six credit planning studio. This requirement is satisfied by completion of URBP 737 Planning Studio. Ordinarily students elect this course in their second year of study or after completion of at least 30 credits of course work.

MASTER OF SCIENCE IN URBAN AFFAIRS

The master of science in urban affairs is an intensive curriculum (36 credits). The program emphasizes the acquisition of an interdisciplinary knowledge of urban processes; it attempts to improve the participant's capacity to contribute to the solution of contemporary urban problems in a variety of management and development positions. The program also affords students unique training before or after graduate study in related specializations or professional schools.

The program entails prescribed courses (18 credits including an urban development workshop) and electives (18 credits) which the student and his or her advisor choose from relevant courses to constitute an "area of concentration."

The program can be completed in 2 semesters and a summer, thus permitting persons presently engaged in urban work to earn a master's degree during a one-year leave of absence. Part-time study can also be arranged.

Two dual degree programs in cooperation with the General Theological Seminary are available. They lead to an MS in urban affairs and a master of divinity or master of sacred theology.

It is expected that career-entry students will find employment in public and private programs including neighborhood development organizations, municipal agencies, community corporations, junior and senior colleges, religious organizations, and businesses and industry.

Requirements for Admission to the Urban Affairs Program

Applicants must meet Hunter's general graduate admission requirements. In addition to the Graduate Record Examination, applicants may, if they wish, take the GRE advanced test in the field of their choice. Applicants must present at least 12 undergraduate credits in the social sciences.

Students with other relevant undergraduate majors or non-academic experience may, after consultation with the graduate advisor, request admission with special conditions.

Requirements for the Master of Science in Urban Affairs

1. The degree requires 36 cr of graduate study.
2. The following courses (18 cr) must be taken by all degree candidates:

URBG 702 Structure of the Urban Region (3 cr)
URBG 790 Urban Development Workshop I (6 cr)
URBG 791 Urban Development Workshop II (3 cr)

URBG 775 Internship (3 cr)

URBG 792 Urban Affairs Seminar (3 cr)

- Each student and his or her academic advisor will establish an elective field of concentration for a minimum of 18 cr. Such courses are not limited to the Department of Urban Affairs and Planning or even to the Division of Social Sciences. Where feasible, and with special permission, students will be able to arrange course work at other colleges.
- Each student will be required to submit and to obtain approval for 2 formal reports in writing, in lieu of a master's thesis, in connection with 2 of the required courses. These reports will be used to evaluate the student's competence in urban problem-solving and in articulating career objectives.

Areas of Concentration

At present, there are 3 options for establishing an area of concentration: a) urban policy, b) neighborhood development, and c) a negotiated area of concentration tied to individual career objectives. Choices from among the following recommended courses may be made, but substitutions are permitted with the approval of the advisor:

Urban Policy

URBG 703 Demographic Issues in Planning and Development
 URBG 706 Introduction to Policy Formulation
 URBG 710 Urban Data Analysis
 URBP 714 Computer Applications in Planning and Urban Affairs
 URBP 736 Energy Planning and Policy Seminar
 URBG 743 Economic Planning and Policy
 URBP 747 Planning in the Budget Process
 URBG 750 Social Planning
 URBP 760 Health Planning and Policy Issues

Neighborhood Development

URBG 727 Introduction to Housing
 URBG 728 Housing and Community Development Seminar
 URBP 731 Neighborhood Planning Workshop
 URBG 740 Planning for Economic Development
 URBG 749 Strategic Planning for Non-Profit Organizations
 URBG 750 Social Planning
 URBP 753 Planning Services for New Types of Family Composition
 URBG 755 Planning for Community Development and Implementation
 URBG 756 Citizen Participation in Planning and Development

With the advice and approval of advisor, a student may select courses focused on individual career objectives. This choice should include at least one methodology and one policy course in the area of interest.

COURSE LISTINGS

Each course is 45 hrs, including conferences, 3 cr, unless otherwise noted.

URBP 700 Theories of Planning Examination of the evolution of planning theory in relationship to set of roles available to contemporary urban planner.

URBP 701 History of Planned Urban Development Study of conscious efforts to guide city development from ancient civilizations to the present. Emphasis on the relationship between public and private planning activities.

URBG 702 Structure of the Urban Region Examination of economic, social, demographic, spatial, and political structures of typical American metropolitan areas. Integration of concepts and models from social sciences with discussion of current trends and problems.

URBG 704 Comparative International Planning Comparison of approaches to urban planning in developing nations with emphasis on large-scale project planning and management. Focus on development plan as tool for resource allocation and decision-making.

URBP 705 Introduction to the Planning Process Introduction to operational aspects of plan-making process: formulation of objectives, evaluation, and

implementation; ethics and values; and administration and bureaucracy.

URBG 706 Introduction to Policy Analysis Examination of conceptual and analytical processes leading to design, selection, and implementation of public policies dealing with urban problems.

URBG 707 Graphical Communication for Urban Planners Introduction to graphical techniques commonly used to facilitate communication of ideas and information among planners and planning-related professionals.

URBG 710 Urban Data Analysis Introduction to basic statistical concepts used in urban research. Emphasis on application of concepts in typical urban planning and policy contexts.

URBP 711 Planning Information Survey of public and private data bases available to planners focusing on traditional and non-traditional sources. Exploration of utilization and implications of data.

URBP 712 Methods of Planning Analysis Introduction to methods of demographic and economic analysis. Emphasis on applications to current urban planning practice.

URBP 713 Planning Methods for Optimization and Decision-Making Introduction to quantitative techniques for optimization and decision-making. Applications of techniques in planning contexts.

URBG 714 Computer Applications in Planning and Urban Affairs Review of computers and their roles in urban professions. Survey of spreadsheets, data bases, and word-processing programs as well as simple programming, computer mapping, and mainframe computers.

URBP 719 Introduction to Land Use Planning Examination of theories of American land use patterns. Evaluation of land use problems with consideration of economic, social, legal, and political constraints confronting urban planners.

URBP 720 Law of Land Use Regulation I Description of legal structure surrounding public sector control and management of land use including police power, eminent domain, zoning, subdivision control, master plans, official maps, and expansion of legal techniques for controlling urban growth.

URBP 721 Law of Land Use Regulation II Prereq: URBP 720. Focus on inclusionary and exclusionary zoning; growth management; aesthetics and historic preservation; transfer of development rights; regional and state planning and development control; and tax policies and land use control.

URBP 722 Land Use Planning Workshop Prereq: URBP 719 or perm instr. Application of land use planning skills to specific problem in New York metropolitan region. Class operates as team to produce recommendations.

URBP 723 Introduction to Urban Design Analysis of three-dimensional urban space by studying methods of visual perception and notation; criteria for determining desirable spatial relationships; and means of implementing policies to achieve urban design goals.

URBP 724 Urban Design Workshop Prereq: URBP 723 or perm instr. Application of urban design concepts in studio setting to develop design solutions for typical physical planning problems.

URBG 725 Infrastructure and Site Planning Introduction to installed infrastructure systems (water supply, sewage, roadways, etc.) and physical aspects of site development (surveying, landscaping, facilities design, environmental concerns).

URBP 726 Site Planning Workshop Use of specific problems on real sites to deal with land conversion, conventional residential subdivisions, "cluster" residential developments, and low-density commercial or institutional growth.

URBG 727 Introduction to Housing Introduction to facets of housing market. Examination of determinants of supply and demand, finance, and public programs influencing cost of housing.

URBG 728 Housing and Community Development Seminar Prereq: URBG 727 or perm instr. Study and evaluation of public sector activities in housing market. Focus on critical housing and community development legislation and analysis of financing techniques used to stimulate private housing production.

URBG 729 International Human Settlements Open only to matriculated graduate students in Department of Urban Affairs and Planning or perm instr. Review of habitats in urbanized world. Highlight of experience from Third World including squatting, slum upgrading, service delivery, new towns, and settlement policies.

URBG 730 Law of Housing and Urban Development Focus on legal aspects of key housing and community development policy. Examination of federal and state housing programs, landlord-tenant laws, and rent controls.

URBP 732 Introduction to Transportation Planning Introduction to major issues in urban transportation including analysis of characteristics of transport networks and discussion of federal and local policies and programs.

URBP 733 Transportation Planning Methods and Models Prereq: perm instr. Review of variety of transportation planning tools including highway capacity calculations, transportation impact studies, models of trip generation, trip distribution, modal split, and network assignments. Presentation of related microcomputer software.

URBP 734 Environmental Planning Study of current and emerging issues in controlling and preventing environmental degradation. Emphasis on administrative and political considerations.

URBP 735 Law of Environmental Planning Examination of legal aspects of environmental protection and methods of public intervention. Study of role of law in formulation and implementation of environmental public policy.

URBP 736 Energy Planning and Policy Seminar Introduction to conceptual and operational aspects of plans and policies promoting the efficient use of energy in urban communities. Review of national and global energy markets and appropriate responses in transportation, housing, land use, and related areas.

URBG 737 Planning Studio 90 hrs, 6 cr. Students synthesize physical, social, and economic elements of selected town or city to prepare multi-functional plan to guide development.

URBG 740 Planning for Economic Development Open only to graduate students matriculated in Department of Urban Affairs and Planning. Introduction to theoretical, conceptual, and operational aspects of promoting economic development in urban communities.

URBG 741 Employment Planning and Policies Examination of structural changes in American economy and the implications for public policy and planning.

URBG 742 Economics of Real Estate Development Review of economic aspects of real estate investment and development including real estate market determinants; real estate finance, location evaluation, and investment analysis as affected by public sector regulation and taxation.

URBG 743 Economic Planning and Policy Examination of public sector economic intervention and its effects. Emphasis on national manipulation of macroeconomic variables. Discussion of forces affecting inter- and intra-regional location of economic activity.

URBP 746 Planning and Public Finance Analysis of state and local financial structures within which planners operate. Examination of state constitutional limitations on government functions, structure and fiscal aspects of metropolitan government, and political framework of financial decision-making.

URBP 747 Planning in the Budget Process Introduction to principles of financial management as applied to cities and municipal authorities. Survey of approaches to budgeting.

URBG 748 Management Control of Nonprofit Organizations Examination of techniques used by nonprofits to implement plans by managing more effectively. Emphasis on budgeting, management by objectives, performance auditing, and long-term evaluation.

URBG 749 Strategic Planning for Nonprofit Organizations Explanation of strategic planning process. Cases from range of state, local, and federal nonprofit organizations in health, education, social service, religion, and government.

URBG 750 Social Planning Examination of major social problems facing urban planners. Review of social planning theories and methods.

URBP 751 Educational Planning and Policies Review of structure and functioning of American educational systems with analysis of major policy issues confronting them today. Examination of questions of who is to be educated for what and at what period in life.

URBP 753 Planning Services for New Types of Family Composition Study of alternative family models: single parent, multiple family households, and dual career units. Identification of problems created by new models, types of services available for them, and alternative services to be created to meet their needs.

URBG 755 Planning for Community Development and Implementation Review of process required to implement plans. Focus on teaching methods and techniques required to deal with administrative, technical, and political issues.

URBG 756 Citizen Participation in Planning and Development Open only to graduate students matriculated in the Department of Urban Affairs and Planning or who have perm instr. Review of organized citizen efforts to share in development planning and implementation. Analysis of roles of individuals, grassroots organizations, coalitions and partnerships vis-à-vis development professionals, governmental agencies, and the private sector.

URBP 760 Health Planning and Policy Issues Focus on current health issues. Examination of health care costs, delivery, national health insurance, and patient-provider relations.

URBG 762 Health Regulation URBG 760 recommended but not required. Study of health regulation issues and their impact on health service programs and populations they serve. Focus on regulation of hospitals, health care facilities, professional licensing, and quality assurance.

URBG 775, 776, 777, 778 Internship Participation in public, nonprofit, or private agency with involvement in urban planning or policy issues under field supervisor and faculty direction.

URBP 780, 781, 782, 783 Independent Research Supervised study of topics of special interest to advanced students. Students may not take more than 3 cr of Independent Research per semester.

URBP 784 Independent Study 1 cr. Supervised study of topics of special interest to advanced students. Students may not take more than 3 cr of Independent Study per semester.

URBP 785 Independent Study 2 cr. Supervised study of topics of special interest to advanced students. Students may not take more than 3 cr of Independent Study per semester.

URBG 787 Selected Topics in Urban Planning and Urban Affairs

URBG 790 Urban Development Workshop I 6 cr, perm instr. Analysis of local communities and urban issues by engaging in field research. Students undertake projects commissioned by public and private organizations and employ community and issue analysis, impact assessment, and program evaluation techniques.

URBG 791 Urban Development Workshop II Perm instr. Focus on problem-solving skills used to resolve crucial issues in urban community; program development procedures including program planning, strategizing, implementation, administration, and funding. Students work with selected organizational and community concerns as consultants-in-training.

URBG 792 Urban Affairs Seminar Review of contemporary urban issues and problems as the concluding course in the graduate program in urban affairs.

The following courses will be offered in 1993-1996 only if student demand is sufficient.

URBG 703 Demographic Issues in Planning and Development Survey of current demographic trends including national population growth, age distribution patterns, and changes in household composition. Discussion of how patterns relate to planning practice.

URBG 715 Urban Data Analysis Workshop Prereq: URBG 710 or 714 or perm instr. Examination of all phases of urban research process from problem formulation to preparation of the final report. Students work in teams to conduct research project.

URBP 716 Advanced Computer Applications for Urban Planning Prereq: URBG 714 or perm instr. Employment of planning-specific computer application programs including urban data bases, computer mapping, and program management.

URBG 731 Neighborhood Planning Workshop Prereq: URBG 727 or perm instr. Application of neighborhood planning, conservation, and revitalization principles in declining residential areas. Emphasis on formulation of small-scale development strategies.

URBG 739 Regional Planning Examination of planning at metropolitan level, viewing superimposition of multiplicity of local and state governmental jurisdictions on economically integrated urban regions.

URBG 752 Planning for Public Safety Examination of crime reduction strategies emphasizing relationships among crime, safety, and physical environment. Review of roles of planning agencies, housing authorities, and criminal justice system.

URBP 765 Health Planning Workshop 60 hrs. URBG 760 recommended but not required. Students collectively develop prototype regional health systems plan based on use of data required by federal guidelines.

Student Regulations and Rights

STATEMENT ON THE RIGHTS OF STUDENTS

The Hunter College Senate voted endorsement of the following statement on September 24, 1974:

PREAMBLE

"Academic institutions exist for the transmission of knowledge, the pursuit of truth, the development of students, and the general well-being of society. Free inquiry and free expression are indispensable to the attainment of these goals. . . . Freedom to teach and freedom to learn are inseparable facets of academic freedom."

Students "have a distinctive role . . . which qualifies them to share in the responsible authority on campus; the exercise of the authority is part of their education. . . . Joint efforts among all groups in the institution—students, faculty, administration, and governing board—is a prerequisite of sound academic government. . . . Joint effort, to be effective, must be rooted in the concept of shared authority. The exercise of shared authority in college and university government, like the protection of (student and faculty) academic freedom, requires tolerance, respect, and a sense of community."

"The responsibility to secure and respect general conditions conducive to the freedom to learn is shared by all members of the academic community."

Students' rights are not limited by what is enumerated in this statement. The purpose of the statement is to outline some basic principles and guidelines, many of which are now met. Specific implementation will have to be continuously adjusted as conditions at the college change.

I. Academic and Personal Files

1. Improper disclosure, even within the college, of academic, personal, and disciplinary records is a serious invasion of privacy. To minimize the risk of improper disclosure, academic, personal, and disciplinary records should be kept in separate files.
2. All files may be made available only to specially authorized college staff. Express consent of the student involved is otherwise required.
3. Academic records and transcripts should contain only information about scholastic achievement.
4. No records should be kept which reflect the political and off-campus activities or beliefs of students.
5. Non-current medical and disciplinary records should be periodically destroyed.
6. Students have the right to periodically review their academic, medical and disciplinary records and to appeal for removal of items improperly included. If the appeal fails the student has the right to append a written rebuttal to the record.

II. Classroom, Grades, etc.

1. Students have the right, within the limits of available facilities, to pursue any course of study for which they are eligible according to college standards.
2. In order to permit eligible students unhindered access to courses, the costs of required materials should be kept within reasonable limits.
3. Students have the right to know, at the start of each course of study, the basis to be used by the instructor in determining grades.
4. Students' grades should be based solely on academic criteria, not on opinions or conduct in matters unrelated to academic standards.
5. Students should have the opportunity to take reasoned exception to facts or points of view offered in any course of study, but they are responsible for meeting the academic standards of any course of study for which they are enrolled.
6. Students should have the protection through formally established procedures against prejudiced or capricious academic standards or evaluations.

III. Participation in Academic Affairs

1. Students have the right, individually and collectively, to express their views on matters of general interest to the student body, including institutional policy, curriculum, and personnel decisions.
2. Students have the right to participate in the formulation and application of institutional policy affecting academic and student affairs.

3. Students should share in the formation of policies regarding degree requirements, courses and curriculum, academic grading systems, standards of academic standing, and calendar arrangements.

4. Students should have the opportunity, individually and collectively, to assess the value of a course and to express their views on the form and conduct of a class which they have taken.

5. The results of an institutional mechanism used for students to assess courses and faculty, such as evaluation questionnaires, should be accessible to all members of the college community, and should be weighed in all decisions affecting faculty status and curriculum.

IV. Extracurricular Activities

1. Students should be free to form and join associations to promote their common interests.
2. Students have the right to express their opinions, individually and collectively, and to support causes in a manner that does not disrupt the orderly operation of the college.

V. Standards of Conduct

1. Students should participate in the formulation of standards of behavior which are considered essential to the educational mission and community responsibilities of the college.
2. The code of conduct, as a set of regulations and procedures, should be clearly stated and published in a handbook or other generally available set of institutional regulations.
3. In all cases, disciplinary procedures should protect the student from capricious and prejudicial application of the rules of conduct. Such procedures should also satisfy the requirements of procedural due process, including written notice with details of charges, sufficient time to prepare a defense, right to assistance in the defense, right to cross-examine witnesses and to present evidence, and the right to appeal the decision.

RESOLVED, That these rules and regulations be incorporated in each college bulletin.

Adopted by the Board of Trustees of The City University of New York on June 23, 1969, and amended on October 27, 1980 and May 22, 1989

RULES AND REGULATIONS FOR STUDENTS PURSUANT TO ARTICLE 224A

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 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 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 classes, examinations, study or work requirements are held on Friday after four o'clock post meridiem or on Saturday, similar or makeup classes, examinations, study or work requirements 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 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 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.

6a. A copy of this section shall be published by each institution of higher education in the catalog of such institution containing the listing of available courses.

7. As used in this section, the term "institution of higher education" shall mean schools under the control of the Board of Trustees of the State University of New York or of the Board of Higher Education of the City of New York or any community college.

EQUAL OPPORTUNITY PROGRAMS

Hunter College does not discriminate on the basis of race, color, religion, sex, national or ethnic origin, age, handicap, marital status, or sexual orientation. Any student who is discriminated against on the basis of any of these attributes will be afforded due process in accordance with Section 15.3 of the Student Disciplinary Procedure.

RULES AND REGULATIONS FOR THE MAINTENANCE OF PUBLIC ORDER PURSUANT TO ARTICLE 129A 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 to 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 Higher Education provide that:

"THE PRESIDENT. The president, with respect to his educational unit, shall:

"a. Have the affirmative responsibility of conserving and enhancing the educational standards of the college and schools under his jurisdiction;

"b. 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 any of its committees and the policies, programs, and lawful resolutions of the several faculties;

"c. 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 and 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 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 instruments 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 or 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 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.

II. PENALTIES

1. Any student engaging in any manner in conduct prohibited under substantive Rules 1-9 shall be subject to the following range of sanctions as hereafter defined in the attached Appendix: 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 tenured or non-tenured member of the administrative or custodial staff engaging in any manner in conduct prohibited under substantive Rules 1-10 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 Board of Higher Education, 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. In addition, in the case of a tenured faculty member, or tenured member of the administrative or custodial staff engaging in any manner in conduct prohibited under substantive Rules 1-10 he or she shall be entitled to be treated in accordance with applicable provisions of the Education Law or Civil Service Law.

3. Any visitor, licensee, or invitee, engaging in any manner in conduct prohibited under substantive Rules 1-9 shall be subject to rejection and/or arrest by the civil authorities.

4. Any organization which authorized the conduct prohibited under substantive Rules 1-10 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.

APPENDIX

SANCTIONS DEFINED:

A. ADMONITION. An oral statement to the offender that he has violated university rules.

B. 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.



C. 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.

D. 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.

E. RESTITUTION. Reimbursement for damage to or misappropriation of property. Reimbursement may take the form of appropriate service to repair or otherwise compensate for damages.

F. SUSPENSION. Exclusion from classes and other privileges or activities as set forth in the notice of suspension for a definite period of time.

G. EXPULSION. Termination of student status for an indefinite period. The conditions for readmission, if any is permitted, shall be stated in the order of expulsion.

H. COMPLAINT TO CIVIL AUTHORITIES.

I. EJECTION.

RESOLVED, That a copy of these rules and regulations be filed with the Regents of the State of New York and with the Commissioner of Education.

Bylaws of the Board of Trustees

ARTICLE XV — STUDENTS

Section 15.0 PREAMBLE. Academic institutions exist for the transmission of knowledge, the pursuit of truth, the development of students, and the general well-being of society. Student participation, responsibility, academic freedom, and due process are essential to the operation of the academic enterprise. As members of the academic community, students should be encouraged to develop the capacity for critical judgment and to engage in a sustained and independent search for truth.

Freedom to learn and to explore major social, political, and economic issues are necessary adjuncts to student academic freedom, as is freedom from discrimination based on racial, ethnic, religious, sex, political, and economic differentiations.

Freedom to learn and freedom to teach are inseparable facets of academic freedom. The concomitant of this freedom is responsibility. If members of the academic community are to develop positively in their freedom; if these rights are to be secure, then students should exercise their freedom with responsibility.

Section 15.1 CONDUCT STANDARD DEFINED. Each student enrolled or in attendance in any college, school, or unit under the control of the board and every student organization, association, publication, club, or chapter shall obey the laws of the City, State, and Nation, and the bylaws and resolutions of the board, and the policies, regulations, and orders of the college.

The faculty and student body at each college shall share equally the responsibility and the power to establish subject to the approval of the board more detailed rules of conduct and regulations in conformity with the general requirement of this article.

This regulatory power is limited by the right of students to the freedoms of speech, press, assembly, and petition as applied to others in the academic community and to citizens generally.

Section 15.2 STUDENT ORGANIZATIONS. a. Any group of students may form an organization, association, club, or chapter by filing with the duly elected student government organization of the college or school at which they are enrolled or in attendance and with an officer to be designated by the faculty of the college or school at which they are enrolled or in attendance (1) the name and purposes of the organization, association, club, or chapter, (2) the names and addresses of its president and secretary or other officers corresponding in function to president and secretary.

However, no group, organization, or student publication with a program against the religion, race, ethnic origin, or identification or sex of a particular group or which makes systematic attacks against the religion, race, ethnic origin or sex of a particular group shall receive support from any fees collected by the college or be permitted to organize or continue at any college or school. No organizations, military or semi-military in character, not connected with established college or school courses, shall be permitted without the authorization of the faculty and the duly elected student government and the board.

b. Extra-curricular activities at each college or school shall be regulated by the duly elected student government organization to insure the effective conduct of such college or school as an institution of higher learning and for the prevention of activities which are hereafter proscribed or which violate the standards of conduct of the character set forth in bylaw 15.1. Such powers shall include:

1. The power to charter or otherwise authorize teams (excluding inter-collegiate athletics), publications, organizations, associations, clubs, or chapters, and, when appropriate in the exercise of such regulatory power, the power to refuse, suspend, or revoke any charter or other authorization for cause after hearing on notice.

2. The power to delegate responsibility for the effective implementation of its regulatory functions hereunder to any officer or committee which it may appoint. Any aggrieved student or group whose charter or other authorization has been refused, suspended, or revoked may appeal such adverse action by such officer or committee of student government to the duly elected student government. On appeal an aggrieved student or group shall be entitled to a hearing following the due process procedures as set forth in section 15.3. Following such hearing the duly elected student government shall have the authority to set aside, decrease, or confirm the adverse action.

c. Any person or organization affiliated with the college may file charges with an office of the dean of students ** alleging that a student publication has systematically attacked the religion, race, ethnic origin, or sex of a particular group, or has otherwise contravened the laws of the City, State, or Nation, or any bylaw or resolution of the board, or any policy, regulation, or order of the college, within a reasonable period of time after such occurrence. If the dean of students determines, after making such inquiries as he/she may deem appropriate, that the charges are substantial, he/she shall attempt to resolve the dispute, failing which he/she shall promptly submit the charges to the faculty-student disciplinary committee for disposition in accordance with the due process procedures of section 15.3 thereof.

If the committee sustains the charges or any part thereof against the student publication, the committee shall be empowered to (1) reprimand the publication, or (2) recommend to the appropriate funding bodies the withdrawal of budget funds. The funding body shall have the authority to implement fully, modify, or overrule the recommendations.

d. Each college shall establish a student elections review committee in consultation with the various student governments. The student elections review committee shall approve the election procedures and certify the results of elections for student governments, and student body referendum.

e. Student government elections shall be scheduled and conducted, and newly elected student governments shall take office, in accordance with policies of the board, and implementing regulations.

** Throughout these bylaws in any college or unit where the title "dean of students" does not exist, the same shall refer to the officer performing the functions which would otherwise be performed by a dean of students.

**STUDENT DISCIPLINARY PROCEDURE BYLAWS OF
THE CITY UNIVERSITY OF NEW YORK,
AS AMENDED BY THE BOARD OF TRUSTEES ON
FEBRUARY 24, 1992**

Section 15.3 STUDENT DISCIPLINARY PROCEDURES.

Complaint Procedures:

a. Any charge, accusation, or allegation which is to be presented against a student, and, which if proved, may subject a student to disciplinary action, must be submitted in writing in complete detail to the office of the dean of students promptly by the individual, organization, or department making the charge.

b. The chief student affairs officer of the college or his or her designee will conduct a preliminary investigation in order to determine whether disciplinary charges should be preferred. The chief student affairs officer or his or her designee will advise the student of the charge(s) against him or her, consult with other parties who may be involved or who have information regarding the incident, and review other relevant evidence. Following this preliminary investigation, which shall be concluded within thirty (30) calendar days of the filing of the complaint, the chief student affairs officer or designee shall take one of the following actions:

- (i) dismiss the matter if there is no basis for the allegation(s) or the allegation(s) does not warrant disciplinary actions. The individuals involved shall be notified that the complaint has been dismissed;
- (ii) refer the matter to conciliation. If a matter is referred to conciliation the accused student shall receive a copy of the notice required pursuant to section 15.3e of this bylaw; or
- (iii) prefer formal disciplinary charges.

Conciliation Conference:

c. The conciliation conference shall be conducted by the counselor in the office of the dean of students or a qualified staff or faculty member designated by the chief student affairs officer. The following procedures shall be in effect at this conference:

1. An effort will be made to resolve the matter by mutual agreement.
2. If an agreement is reached, the counselor shall report his/her recommendation to the chief student affairs officer for approval and, if approved, the complainant shall be notified.
3. If no agreement is reached, or if the student fails to appear, the counselor shall refer the matter back to the chief student affairs officer who will prefer disciplinary charges.
4. The counselor is precluded from testifying in a college hearing regarding information received during the conciliation conference.

Notice of Hearing and Charges:

d. Notice of the charge(s) and of the time and place of the hearing shall be personally delivered or sent by the chief student affairs officer of the college to the student at the address appearing on the records of the college, by registered or certified mail and by regular mail. The hearing shall be scheduled within a reasonable time following the filing of the charges or the conciliation conference. Notice of at least five business days shall be given to the student in advance of the hearing unless the student consents to an earlier hearing.

e. The notice shall contain the following:

1. A complete and itemized statement of the charge(s) being brought against the student including the rule, bylaw or regulation he/she is charged with violating, and the possible penalties for such violation.
2. A statement that the student has the following rights:
 - (i) to present his/her side of the story;
 - (ii) to present witnesses and evidence on his/her behalf;
 - (iii) to cross-examine witnesses presenting evidence against the student;
 - (iv) to remain silent without assumption of guilt; and
 - (v) to be represented by legal counsel or an advisor at the student's expense.
3. A warning that anything the student says may be used against him/her at a non-college hearing.

Faculty-Student Disciplinary Committee Procedures:

f. The following procedures shall apply at the hearing before the faculty-student disciplinary committee:

1. The chairperson shall preside at the hearing. The chairperson shall inform the student of the charges, the hearing procedures and his or her rights.
2. After informing the student of the charges, the hearing procedures, and his or her rights, the chairperson shall ask the student charged to plead guilty or not guilty. If the student pleads guilty, the student shall be given an opportunity to explain his/her actions before the committee. If the student pleads not guilty, the college shall present its case. At the conclusion of the college's case, the student may move to dismiss the charges. If the motion is denied by the committee the student shall be given an opportunity to present his or her defense.
3. Prior to accepting testimony at the hearing, the chairperson shall rule on any motions questioning the impartiality of any committee member or the adequacy of the notice of the charge(s). Subsequent thereto, the chairperson may only rule on the sufficiency of the evidence and may exclude irrelevant, immaterial or unduly repetitive evidence. However, if either party wishes to question the impartiality of a committee member on the basis of evidence which was not previously available at the inception of the hearing, the chairperson may rule on such a motion. The chairperson shall exclude all persons who are to appear as witnesses, except the accused student.
4. The college shall make a record of each fact-finding hearing by some means such as a stenographic transcript, a tape recording or the equivalent. A disciplined student is entitled upon request to a copy of such a transcript, tape or equivalent without cost.
5. The student is entitled to a closed hearing but has the right to request an open public hearing. However, the chairperson has the right to hold a closed hearing when an open public hearing would adversely affect and be disruptive of the committee's normal operations.
6. The college bears the burden of proving the charge(s) by a preponderance of the evidence.
7. The role of the faculty-student disciplinary committee is to listen to the testimony, ask questions of the witnesses, review the testimony and evidence presented at the hearing and the papers filed by the parties and render a determination as to guilt or innocence. In the event the student is found guilty, the committee shall then determine the penalty to be imposed.
8. At the end of the fact-finding phase of the hearing, the student may introduce additional records, such as character references. The college may introduce a copy of the student's previous disciplinary record, where applicable, provided the student was shown a copy of the record prior to the commencement of the hearing. The disciplinary record shall be submitted to the committee in a sealed envelope and shall not be opened until after the committee has made its findings of fact. In the event the student has been determined to be guilty of the charge or charges the records and documents introduced by the student and the college shall be opened and used by the committee for dispositional purposes, i.e. to determine an appropriate penalty if the charges are sustained.
9. The committee shall deliberate in closed session. The committee's decision shall be based solely on the testimony and evidence presented at the hearing and the papers filed by the parties.
10. The student shall be sent a copy of the faculty-student disciplinary committee's decision within five days of the conclusion of the hearing. The decision shall be final subject to the student's right of appeal.
11. Where a student is represented by legal counsel the President of the College may request that a lawyer from the general counsel's office appear at the hearing to present the college's case.

Section 15.4 APPEALS. An appeal from the decision of the faculty-student disciplinary committee may be made to the president who may confirm or decrease the penalty but not increase it. His/her decision shall be final except in the case of dismissals or suspension for more than one term. An appeal from a decision of dismissal or suspension for more than one term may be made to the appropriate committee of the board. Any appeal under this section shall be made in writing within fifteen days after the delivery of the decision appealed from. This requirement may be waived in a particular case for good cause by the president or board committee as the case may be. If the president is a party to the dispute, his/her functions with respect to an appeal shall be discharged by an official of the university to be appointed by the chancellor.

Section 15.5 COMMITTEE STRUCTURE.

a. Each faculty-student disciplinary committee shall consist of two faculty members and two student members and a chairperson. A quorum shall consist of the chair and any two members. Hearings shall be scheduled at a convenient time and efforts shall be made to insure full student and faculty representation.

b. The president shall select in consultation with the head of the appropriate campus governance body or where the president is the head of the governance body, its executive committee, three (3) members of the instructional staff of that college to receive training and to serve in rotation as chair of the disciplinary committees. If none of the chairpersons appointed from the campus can serve, the president, at his/her discretion, may request that a chairperson be selected by lottery from the entire group of chairpersons appointed by other colleges. The chairperson shall preside at all meetings of the faculty/student disciplinary committee and decide and make all rulings for the committee. He/she shall not be a voting member of the committee but shall vote in the event of a tie.

c. The faculty members shall be selected by lot from a panel of six elected annually by the appropriate faculty body from among the persons having faculty rank or faculty status. The student members shall be selected by lot from a panel of six elected annually in an election in which all students registered at the college shall be eligible to vote. In the event that the student or faculty panel or both are not elected, or if more panel members are needed, the president shall have the duty to select the panel or panels which have not been elected. No individuals on the panel shall serve on the panel for more than two consecutive years.

d. In the event that the chairperson cannot continue, the president shall appoint another chairperson. In the event that a student or faculty seat becomes vacant and it is necessary to fill the seat to continue the hearing, the seat shall be filled from the faculty or student panel by lottery.

e. Persons who are to be participants in the hearings as witnesses or have been involved in preferring the charges or who may participate in the appeals procedures or any other person having a direct interest in the outcome of the hearing shall be disqualified from serving on the committee.

Section 15.6 SUSPENSION OR DISMISSAL. The board 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, 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 persons 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.

Section 15.7 THE UNIVERSITY STUDENT SENATE. There shall be a university student senate responsible, subject to the board, for the formulation of university-wide student policy relating to the academic status, role, rights, and freedoms of the student. The authority and duties of the university student senate shall not extend to areas of interest which fall exclusively within the domain of the student governments of the constituent units of the university. Consistent with the authority of the board of trustees in accordance with the education law and the bylaws of the board of trustees, the university student senate shall make its own bylaws providing for the election of its own officers, the establishment of its own rules and procedures, for its internal administration and for such other matters as is necessary for its existence. The university student senate shall have the full rights and responsibilities accorded student organizations as provided in these bylaws. The delegates and alternate delegates to the university student senate shall be elected by their respective constituencies, or by their student governments from the elected members of the respective student governments.

Section 15.8 COLLEGE GOVERNANCE PLANS. The provisions in a duly adopted college governance plan shall not be inconsistent with the provisions contained in this article.

*Section 15.10 THE REVIEW AUTHORITY OF COLLEGE PRESIDENTS AND COLLEGE ASSOCIATIONS. a. The president of the college shall have the authority to veto any student activity fee including the student government fee allocation, which in his or her opinion requires further clarification, is inappropriate, or contravenes the laws of the city, state, or nation or any bylaw or policy of the university or any policy, regulation, or order of the college. If the college president chooses to exercise a veto within a reasonable time after being made aware of this action, he or she shall consult with the general counsel and vice chancellor for legal affairs and thereafter communicate his/her decision to the allocating body.

b. The college association may within ten (10) working days of the presidential veto, by the affirmative vote of two-thirds of the total membership of the governing board, override the presidential veto, except a presidential veto based upon compliance with the laws of the city, state, or nation, or bylaws or policy of the university shall not be subject to being overridden.

*Section 15.11 REFERENDA. a. A referendum proposing changes in the student activity fee shall be initiated by a petition of at least 10% of the appropriate student body and voted upon in conjunction with student government elections.

b. Where a referendum seeks to earmark student activity fees for a specific purpose or organization without changing the total student activity fee, the results of the referendum shall be sent to the college association for implementation.

c. Where a referendum seeks to earmark student activity fees for a specific purpose or organization by changing the total student activity fee, the results of such referendum shall be sent to the board by the president of the college together with his/her recommendation.

d. At the initiation of a petition of at least 10% of the appropriate student body, the college president may schedule a student referendum at a convenient time other than in conjunction with student government elections.

*Section 15.12 DISCLOSURE. a. The college president shall be responsible for the full disclosure to each of the student governments of the college of all financial information with respect to student activity fees.

b. The student governments shall be responsible for the full disclosure to their constituents of all financial information with respect to student government fees.

c. The college association shall be responsible for the full disclosure of all financial information to its membership, to the college, and to the student governments with respect to all of its activities, including auxiliary enterprises.

d. For purposes of the foregoing paragraphs, full disclosure shall mean the presentation each semester of written financial statements which shall include, but need not be limited to, the source of all fee income by constituency, income from other sources creditable to student activity fee accounts, disbursements, transfers, past reserves, surplus accounts, contingency and stabilization funds. Certified independent audits performed by a public auditing firm shall be conducted at least once a year.

*Section 15.13 STIPEND. The payment of stipends to student government officers and other student leaders is prohibited, except insofar as specifically authorized by board policy.

*Section 15.14 UNIVERSITY REVIEW COMMITTEE. There shall be a university review committee consisting of three administrators appointed by the chancellor.

a. The university review committee shall have responsibility for oversight and supervision over university student activity fees and extramural student activity fees. Recipients of extramural fees shall present an annual report to the appropriate board committee detailing the activities, benefits and finances of the extramural body as they pertain to the colleges where students are paying an extramural fee.

* Implementation of these bylaws is deferred until the issuance of a decision in the proceeding pending in the Supreme Court of the State of New York, or until such later time as the order of the Supreme Court or a Court of Appellate jurisdiction shall provide.

b. The university review committee may veto any proposed expenditure of the university student senate, subject to being overridden by the affirmative vote of two-thirds of the total membership of the university student senate, in person or by mail ballot, except that a veto based upon the opinion that an item is in contravention of the laws of the city, state or nation, or bylaws or policy of the university is not subject to being overridden.

ARTICLE XVI—STUDENT ACTIVITY FEES AND AUXILIARY ENTERPRISES

Section 16.1 STUDENT ACTIVITY FEE. The student activity fee is the total of the fees for student government and other student activities. Student activity fees, including student government fees collected by a college of the university shall be deposited in a college central depository and, except where earmarked by the board, allocated by a college association budget committee subject to review by the college association as required in these bylaws.

Section 16.2 STUDENT ACTIVITY FEES USE—EXPENDITURE CATEGORIES. Student activity fee funds shall be allocated and expended only for the following purposes:

1. Extracurricular educational programs;
2. Cultural and social activities;
3. Recreational and athletic programs;
4. Student government;
5. Publications and other media;
6. Assistance to registered student organizations;
7. Community service programs;
8. Enhancement of the college and university environment;
9. Transportation, administration and insurance related to the implementation of these activities;
10. Student services to supplement or add to those provided by the university;
11. Stipends to student leaders.

Section 16.3 STUDENT GOVERNMENT FEE. The student government fee is that portion of the student activity fee levied by resolution of the board which has been established for the support of student government activities. The existing student government fees now in effect shall continue until changed. Student government fees shall be allocated by the duly elected student government or each student government where more than one duly elected student government exists, for its own use and for the use of student organizations, as specified in section 15.2 of these bylaws, provided, however, that the allocation is based on a budget approved by the duly elected student government after notice and hearing, subject to the review of the college association. Where more than one duly elected student government exists, the college association shall apportion the student government fees to each student government in direct proportion to the amount collected from members of each student government.

Section 16.4 STUDENT GOVERNMENT ACTIVITY DEFINED. Student government activity is any activity operated by and for the students enrolled at any unit of the university provided, (1) such activity is for the direct benefit of students enrolled at the college, (2) that participation in the activity and the benefit thereof is available to all students enrolled in the unit or student government thereof, and (3) that the activity does not contravene the laws of the city, state, or nation, or the published rules, regulations, and orders of the university or the duly established college authorities.

Section 16.5 COLLEGE ASSOCIATION.

a. The college association shall have responsibility for the supervision and review over college student activity fee supported budgets. All budgets of college student activity fees, except where earmarked by the board to be allocated by another body, should be developed by a college association budget committee and recommended to the college association for review by the college association prior to expenditure. The college association shall review all college student activity fees, including student government fee allocations and expenditures for conformance with the expenditure categories defined in section 16.2 of this article and the college association shall disapprove any allocation or expenditure it finds does not so conform or is inappropriate, improper, or inequitable.

b. A college association shall be considered approved for purposes of this article if it consists of thirteen (13) members, its governing documents are approved by the college president and the following requirements are met:

1. The governing board of the college association is composed of:

- (i) The college president or his/her designee as chair
- (ii) Three administrative members appointed by the college president
- (iii) Three faculty members appointed by the college president from a panel whose size is twice the number of seats to be filled and the panel is elected by the appropriate college faculty governance body.
- (iv) Six student members comprised of the student government president(s) and other elected students with the student seats allocated on a basis which will provide representation to each government, where more than one exists, as nearly as practicable in proportion to the student activity fees provided by the students from the respective constituencies.

2. The college association structure provides a budget committee composed of members of the governing board, at least a majority of whom are students selected in accordance with section 16.5(b) (1)(iv) of these bylaws. The budget committee shall be empowered to receive and review student activity fee budget requests and to develop a budget subject to the review of the college association. The college association may choose to not approve the budget or portions of the budget if in their opinion such items are inappropriate, improper, or inequitable. The budget shall be returned to the budget committee with the specific concerns of the college association noted for further deliberation by the budget committee and subsequent resubmittal to the college association. If the budget is not approved within thirty (30) days those portions of the budget voted upon and approved by the college association board will be allocated. The remainder shall be held until the college association and the budget committee agree.

3. The governing documents of the college association have been reviewed by the board's general counsel and approved by the board.

Section 16.6 MANAGEMENT AND DISBURSEMENT OF FUNDS. The college and all student activity fee allocating bodies shall employ generally accepted accounting and investment procedures in the management of all funds. All funds for the support of student activities are to be disbursed only in accordance with approved budgets and be based on written documentation. A requisition for disbursement of funds must contain two signatures; one, the signature of a person with responsibility for the program; the other the signature of an approved representative of the allocating body.

Section 16.7 REVENUES. All revenues generated by student activities funded through student activity fees shall be placed in a college central depository subject to the control of the allocating body. The application of such revenues to the account of the income generating organization shall require the specific authorization of the allocating body.

Section 16.8 FISCAL ACCOUNTABILITY HANDBOOK. The chancellor or his/her designee shall promulgate regulations in a fiscal accountability handbook, to regulate all aspects of the collection, deposit, financial disclosure, accounting procedures, financial payments, documentation, contracts, travel vouchers, investments and surpluses of student activity fees and all other procedural and documentary aspects necessary, as determined by the chancellor or his designee to protect the integrity and accountability of all student activity fee funds.

Section 16.9 COLLEGE PURPOSES FUND. a. A college purposes fund may be established at each college and shall be allocated by the college president. This fund may have up to twenty-five (25) percent of the unearmarked portion of the student activity fee earmarked to it by resolution of the board, upon the presentation to the board of a list of activities that may be properly funded by student activity fees that are deemed essential by the college president.

b. Expenditures from the college purposes fund shall be subject to full disclosure under section 16.13 of these bylaws.

c. Referenda of the student body with respect to the use and amount of the college purposes fund shall be permitted under the procedures and requirements of section 16.12 of these bylaws.

Section 16.10 AUXILIARY ENTERPRISE BOARD. a. The auxiliary enterprise board shall have responsibility for the oversight, supervision and review over college auxiliary enterprises. All budgets of auxiliary enterprise funds and all contracts for auxiliary enterprises shall be developed by the auxiliary enterprise budget and contract committee and reviewed by the auxiliary enterprise board prior to expenditure or execution.

b. The auxiliary enterprise board shall be considered approved for the purposes of this article if it consists of at least eleven (11) members, its governing documents are approved by the college president, and the following requirements are met:

1. The governing board is composed of the college president or his/her designee as chair, plus an equal number of students and the combined total of faculty and administrative members.

2. The administrative members are appointed by the college president.

3. The faculty members are appointed by the college president from a panel whose size is twice the number of seats to be filled and the panel is elected by the appropriate college faculty governance body.

4. The student members are the student government president(s) and other elected students and the student seats are allocated on a basis which will provide representation to each government, where more than one exists, as nearly as practicable, in proportion to the student enrollment by headcount from the respective constituencies.

5. The auxiliary enterprise board structure provides for a budget and contract committee composed of a combined total of faculty and administrative members that is one more than the number of student members. The budget and contract committee shall be empowered to develop all contract and budget allocation proposals subject to the review and approval of the auxiliary enterprise board.

6. The governing documents of the auxiliary enterprise board have been reviewed by the board's general counsel and approved by the board.

Section 16.11 THE REVIEW AUTHORITY OF COLLEGE PRESIDENTS OVER STUDENT ACTIVITY FEE ALLOCATING BODIES AND AUXILIARY ENTERPRISE BOARDS. a. The president of the college shall have the authority to disapprove any student activity fee, including student government fee, or auxiliary enterprise allocation or expenditure, which in his or her opinion contravenes the laws of the city, state, or nation or any bylaw or policy of the university or any policy, regulation, or order of the college. If the college president chooses to disapprove an allocation or expenditure, he or she shall consult with the general counsel and vice chancellor for legal affairs and thereafter communicate his/her decision to the allocating body or auxiliary enterprise board.

b. The president of the college shall have the authority to suspend and send back for further review any student activity fee, including student government fee, allocation or expenditure which in his or her opinion is not within the expenditure categories defined in section 16.2 of this article. The college association shall, within ten (10) days of receiving a proposed allocation or expenditure for further review, study it and make a recommendation to the president with respect to it. The college president shall thereafter consider the recommendation, shall consult with the general counsel and vice chancellor for legal affairs, and thereafter communicate his/her final decision to the allocating body as to whether the allocation or expenditure is disapproved.

c. The chancellor or his designee shall have the same review authority with respect to university student activity fees that the college president has with respect to college student activity fees.

d. All disapprovals exercised under this section shall be filed with the general counsel and vice-chancellor for legal affairs.

e. Recipients of extramural student activity fees shall present an annual report to the chancellor for the appropriate board committee detailing the activities, benefits and finances of the extramural body as they pertain to the colleges where students are paying an extramural fee.

Section 16.12 REFERENDA. A referendum proposing changes in the student activity fee shall be initiated by a petition of at least ten (10) percent of the appropriate student body and voted upon in conjunction with student government elections.

a. Where a referendum seeks to earmark student activity fees for a specific purpose or organization without changing the total student activity fee, the results of the referendum shall be sent to the college association for implementation.

b. Where a referendum seeks to earmark student activity fees for a specific purpose or organization by changing the total student activity fee, the results of such referendum shall be sent to the board by the president of the college together with his/her recommendation.

c. At the initiation of a petition of at least ten (10) percent of the appropriate student body, the college president may schedule a student referendum at a

convenient time other than in conjunction with student government elections.

d. Where the referendum seeks to affect the use or amount of student activity fees in the college purposes fund, the results of the referendum shall be sent to the board by the college president together with his/her recommendation.

Section 16.13 DISCLOSURE. a. The college president shall be responsible for the full disclosure to each of the student governments of the college of all financial information with respect to student activities fees.

b. The student governments shall be responsible for the full disclosure to their constituents of all financial information with respect to student government fees.

c. The student activity fee allocating bodies shall be responsible for the full disclosure of all financial information to its membership, to the college and to the student governments with respect to all of its activities.

d. The auxiliary enterprise board shall be responsible for the full disclosure of all financial information to its membership, to the college and to the student governments with respect to auxiliary enterprises.

e. For purposes of the foregoing paragraphs, full disclosure shall mean the presentation each semester of written financial statements which shall include, but need not be limited to, the source of all fee income by constituency, income from other sources creditable to student activity fee accounts, disbursements, transfers, past reserves, surplus accounts, contingency and stabilization funds. Certified independent audits performed by a public auditing firm shall be conducted at least once each year.

Section 16.14. STIPENDS. The payment of stipends to student leaders is permitted only within those time limits and amounts authorized by the board.

Sexual Harassment Policy and Procedures

Sexual harassment is illegal. It is a form of sex discrimination in violation of Title VII of the 1964 Civil Rights Act, Title IX of the 1972 Education Amendment, and the official policy of The City University of New York. The City University of New York issued a policy in 1982 that prohibits sexual harassment of faculty, staff, and students:

"It is the policy of The City University of New York to prohibit harassment of employees or students on the basis of sex. This policy is related to and is in conformity with the equal opportunity policy of the University to recruit, employ, retain and promote employees without regard to sex, age, race, color, or creed. Prompt investigation of allegations will be made on a confidential basis to ascertain the veracity of complaints, and appropriate corrective action will be taken.

"It is a violation of policy for any member of the University community to engage in sexual harassment. It is a violation of policy for any member of the University community to take action against an individual for reporting sexual harassment."

Hunter College adheres to CUNY policy and condemns all forms of sexual intimidation and exploitation. For the purposes of this policy, sexual harassment is defined as unwelcome sexual advances, requests for sexual favors, and other intimidating verbal or written communications or physical conduct of a sexual nature. This behavior constitutes sexual harassment when:

1. submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or academic standing;
2. submission to or rejection of such conduct by an individual is used as the basis for employment or academic decisions affecting that individual;
3. such conduct has the purpose or effect of unreasonably interfering with an individual's work performance or creating an intimidating, hostile, or offensive working or learning environment.*

* These criteria are based on Guidelines issued by the Office of Civil Rights, Department of Education.

To implement CUNY's policy, Hunter College created a Sexual Harassment Panel to help educate the Hunter community about sexual harassment; to assist in the investigation of complaints of sexual harassment; and to make recommendations for corrective and disciplinary actions. (The Vice-President for Student Affairs designates the panel to investigate formal complaints by students; the Panel reports the results of its investigations to the Vice-President for Student Affairs and makes recommendations for appropriate corrective action.) All complaints will be promptly investigated on a confidential basis, and anyone who engages in such behavior risks the possibility of disciplinary action. The individual bringing the complaint decides whether and how to pursue a resolution of the problem.

Any student or employee of the College may discuss complaints of sexual harassment with a member of the Sexual Harassment Panel for information on procedures for informal and formal resolutions of the problem. The Panel's office is Room 1209E, (phone: 772-4007). Further information on the Panel is available from members of the Panel and in the following places:

Student Services
Women's Center
Women's Studies Program
Security
Employee Assistance Program
Lesbian and Gay Student Alliance
President's Office
School of Social Work
School of Health Sciences
Information Desk — First Floor West Building
Provost's Office

The coordinators of the Panel are Professor Richard Barickman (Department of English; 772-5174) and Professor Michele Paludi (Department of Psychology; 772-5681).

Drug-Free Schools and Campuses, Public Law 101-226

Hunter College is in compliance with the Drug-Free Schools and Communities Act Amendments of 1989 (Public Law 101-226).

The New York State minimum drinking age (21 years) is observed at all campus functions. Proof of age is required to consume alcoholic beverages and no individual appearing to be under the influence of alcohol will be served.

All Hunter College organizations sponsoring events must, in advance of the event, agree to the following conditions:

1. No person shall sell or provide an alcoholic beverage to a person under the age of 21. Where documentation of age is unavailable or not reasonably certain, the law requires denial of an alcoholic beverage to that person.
2. No person shall sell or provide an alcoholic beverage to a person actually or apparently under the influence of alcohol.
3. No person shall sell or provide an alcoholic beverage to a person known to be a habitual excessive drinker.
4. All advertising, promotion, publicity, invitations, etc. stating the availability of alcoholic beverages at an event, must include the following statement:

The unlawful possession, use or distribution of drugs is prohibited on the campus. Violators will be subject to penalties ranging from reprimand and warning for a first infraction, to separation from the college for a subsequent offense.

Legal sanctions against students alleged to be in violation of Public Law 101-226 will be determined according to Article 15 Section 3 of the CUNY Board of Trustees By-Laws. Sanctions for members of

the instructional staff and non-instructional staff will be governed by Article VII of the CUNY Board of Trustees By-Laws and Article XIV, respectively.

Health Risks of Alcohol Abuse	Health Risks of Illegal Drug Abuse
Dependency	Dependency
Malnutrition	Malnutrition
Impaired judgment	Loss of control
Reduced alertness	Skin abscesses
Slowed reaction time	Vein inflammation
Sensory and motor depression	Serum hepatitis
Cirrhosis of the liver	Increased risk of HIV infection
	Reduced immunity

Assistance is available by calling:

Hunter College Emergency Medical Services	—	772-4801
Employee Assistance Program	—	772-4051
Student Services	—	772-4882

The Hunter College Smoking Policy

I. General Statement

In recognition that the inhalation of tobacco smoke is hazardous to health, the College is taking positive steps toward providing a more smoke-free environment for students, faculty and staff.

II. General Policy

Smoking is prohibited in all College buildings and facilities except in enclosed areas which are specifically designated as "Smoking Permitted." Other exceptions to this general policy are enumerated below.

III. Exceptions

A. *Private Offices* Smoking may be permitted in enclosed private offices.

Shared Offices In offices shared by two or more individuals, smoking is prohibited unless all the non-smokers specifically agree to permit smoking.

B. *Dining Areas* All dining areas of 51 or more seats must have at least 70% of these seats reserved for non-smokers.

IV. Applicability

All Hunter College faculty, staff, students and visitors are required to comply with this policy.

V. Responsibility

The Office of the Vice President for Administration has overall responsibility for implementing this policy. Deans, chairs, and managers are responsible for implementing this policy in their units and shall inform students, faculty and staff employees under their jurisdiction of the provisions of this policy.

Areas Where Smoking is Permitted

68th Street Campus

North Building
East Lounge
Graduate Student Lounge - 3rd Floor
Thomas Hunter
Student Lounge - 305TH
West Building
Cafeterias - where designated
Study Lounge - 4th Floor
Faculty/Staff Lounge - 8th Floor

Brookdale Campus

Cafeteria - where designated

In addition, academic departments and administrative offices have been asked to designate areas for faculty and staff within the guidelines of the "No Smoking" policy.

Fire Safety Plan

Instructions

A. If you see a fire, do the following:

1. Call the Fire Department (911), or
2. Call the Security Emergency Number 772-4444, or
3. Pull the Fire Alarm
4. Then, Follow the Procedures Below

B. Procedures

- a. Evacuate your area.
- b. Close but do not lock doors.
- c. Follow instructions transmitted over the public address system.
- d. Proceed to evacuate the building through designated exits.
- e. Evacuate to street if not directed otherwise over the public address system.
- f. Before entering any stairwell, touch the door with the palm of your hand. If it is warm or hot, do not enter the stairwell. Proceed to the next stairwell.
- g. When leaving the building keep your head turned to the center of the stairway.
- h. Walk downstairs—do not run. Do not panic. Remain calm.
- i. It is dangerous to use elevators during an evacuation. Use elevators only when authorized to do so by Fire Emergency Personnel.
- j. When using the down escalators, make long and wide turns going from one escalator to the next escalator in order to prevent congestion.
- k. When you are outside the building move away from the entrance approximately two hundred feet.
- l. Wait for the all clear signal before re-entering the building.

HUNTER COLLEGE CAMPUS SAFETY AND SECURITY FIRE SAFETY PLAN FOR THE DISABLED (INTERIM PLAN)

This Fire Safety Plan for The Disabled is established to provide for the safety of the disabled members of the Hunter College community and disabled visitors to the College in the event of a fire or other life-threatening emergency. The plan will be implemented in any situation in which there may be a need to relocate disabled persons to a safe location.

The Fire Safety Plan for the Disabled identifies the New York City Fire Department as the agency having the primary responsibility for relocating any disabled person from an endangered floor to a safe location. However, if the Fire Department or other New York City emergency agency response is not exercised in a timely fashion, and the situation requires immediate removal of disabled persons, College Safety and Security Personnel will transport such individual or individuals to a safe location.

The Fire Safety Plan for the Disabled is a part of the Hunter College Fire Safety Plan. All faculty, staff and students are advised to read and be fully familiar with the entire Fire Safety Plan.

Instructions

A. If you see a fire, do the following:

1. Call the Fire Department (911), or
2. Call the security emergency number 772-4444, or
3. Pull the fire alarm
4. Then, follow the procedures below

B. Procedures for the Disabled

1. During an emergency, the entire floor may or may not need to be evacuated. In either case, when you hear the emergency alarm, assemble near any exit door near the elevators.
2. Do not enter the stairwell. Do not use an elevator unless directed by the fire department or Hunter's Emergency Response Team.

Relocation Procedures for the Disabled

If it is necessary to evacuate the entire floor, a member of the Fire Department or Hunter's Emergency Response Team will search the entire floor to locate disabled persons. The emergency personnel will remove you to a safe location by elevator or stairwell. A notice containing these procedures shall be placed on each floor.

Hunter North — Special Instructions

1. In Hunter North, go to the area near the Fire Tower. The entrance to the Fire Tower is located at the north end of the west corridor (the corridor parallel to Park Avenue). A diagram of the fire tower location is provided at the end of this section.
2. Do not enter the Fire Tower stairwell unless the major portion of the college community has completed its descent.

Other Precautions

1. Remain *calm*. Your safety and the security of others depend on the absence of panic.
2. Before entering any stairwell, touch the door leading into the stairwell. If the door is warm or hot, do not open or enter the stairwell. Proceed to the next stairwell.
3. If you cannot reach a stairwell near an elevator, and you are in an office or classroom and have access to a phone, call Security at 772-4444. Disabled persons and persons who are trapped are the *only* persons who should call Security during a fire emergency.
4. If you are in an area with a door and cannot reach an exit near the elevators, seal the crack around the door with rags or clothing.
5. Campus Safety and Security has a chart indicating all the special rooms in the library designed for use by the disabled. These rooms will be checked during a fire emergency.

What Emergency Personnel Will Do

1. The Emergency Response Team member who searches the floor will report your location to the Fire Command Station. The Fire Command Station will inform the Fire Department of your location.
2. If you are in need of relocation and the Fire Department is not available to relocate you, a member of Campus Safety and Security Personnel will relocate you to a safe location.
3. If necessary, you will be relocated to a safe floor or taken out of the building.

Training and Orientation

A. Training

Personnel in the College Safety and Security Department are trained in the proper methods for safe lifting and carrying of disabled persons. (See Assembling and Relocation Procedures, p. 119.)

B. Orientation

1. Orientation to the Fire Safety Plan, including the relocation procedures, will be provided for disabled faculty, students and staff yearly under the auspices of the 504 Committee.
2. Orientation for new disabled students will be included in the orientation program for entering freshmen.
3. Instructions regarding the Fire Safety Plan and Relocation Procedures will be included in the regularly conducted fire drills.

Locating Disabled Persons

A. Security maintains class schedules for disabled students and work schedules for disabled faculty and staff. These schedules will be used to assist emergency personnel to locate disabled persons in an emergency.

B. Students are responsible for reporting their class schedules, their work schedules, and schedule changes to the Coordinator for Disabled Student Services (Room E1100 - East Building).

C. Disabled faculty and staff are responsible for reporting their work schedules and schedule changes to the Director of Personnel (Room E1502A).

Responsibility for Implementation

The Director of Security is responsible for the implementation of the Fire Safety Plan.

Distribution

The Fire Safety Plan for Disabled Persons will be distributed to all faculty, students and staff who have identified themselves as disabled.

The Fire Safety Plan for the Disabled will be distributed with the Hunter College Fire Safety Plan.

FIRE SAFETY PLAN FOR DISABLED PERSONS

Assembling and Relocation Procedures

When there is a fire alarm in one of the College's buildings, disabled persons who are unable to walk down steps should assemble at one of the Disabled Persons Fire Emergency Assembly Areas (DPFEAA).

These areas are located on every floor of Hunter's four buildings in the immediate vicinity of each building's elevators. They are near the two stairwells closest to the elevators. The areas are identified by wall signs that identify the area as a Disabled Persons Fire Emergency Assembly Area.

During a fire alarm, fire wardens, fire searchers and security personnel have been directed to communicate the number, the location, and the status of all disabled persons via Fire Warden Phones or through security personnel to Hunter College's Fire Command Station. The security person at the Fire Command Station will notify members of the New York City Fire Department of the status of all disabled persons in the building as soon as the firefighters arrive on the campus.

No person should ever use an elevator in a fire unless so directed by Fire Department personnel. Using an elevator in a fire is extremely dangerous. The College has been informed by the Fire Department that the use of elevators in a fire has, in many cases, resulted in many unfortunate and unnecessary deaths.

The New York City Fire Department has informed Hunter College that they have the primary responsibility to determine if elevators can be used to transport disabled persons during fire emergencies. Fire Department officials also state that they are responsible for relocating disabled persons to a safe location if such relocation is necessary.

The New York City Fire Department considers transporting disabled persons in an emergency a highly risky procedure. The relocation process may subject disabled persons and other persons to accidents and injuries. However, if it is necessary to relocate disabled persons during an emergency, the Fire Department will handle the relocation of disabled persons, using safe procedures and experienced Fire Department personnel.

If elevators can be used during a fire alarm, the Fire Department considers use of the elevators to be the best method of relocation because it is practical, safe and efficient. This explains the Fire Department's position of advocating Emergency Assembly Areas for Disabled Persons. (The Fire Department often refers to this type of assembly area as a refuge area.)

When there is a report of a fire alarm in the building (Note: the alarm may be a false alarm or the fire may be in a small section of the building), if disabled persons are not in any danger from the fire or its smoke, the Fire Department does not automatically recommend the relocation of disabled persons. In most cases, the Fire Department would not recommend that such persons be removed from the building. Instead, the Fire Department would recommend that such persons be moved to a safe location within the building.

NOTE: It is extremely important that the Hunter College community understand the procedure of the New York City Fire Department for evacuating a building which is experiencing a fire. Everyone in the building should not automatically be evacuated to the street. Nor should everyone be relocated within the building. This is the policy for ambulatory persons as well as non-ambulatory persons.

If you have any questions regarding the standards used to determine the need for evacuating the buildings, call the Director of Campus Safety and Security, (212) 772-4521.

When Security Personnel Will Relocate Disabled Persons

If, for any reason, a disabled person is in imminent danger because of fire, smoke or other circumstances on campus, and members of the New York City Fire Department are not present to relocate the disabled person, Campus Safety and Security personnel, and other members of the Fire Response Team will assume the responsibility of moving that person to a safe location.

Security personnel operating under the direction of the Fire Command Station, or the Security Supervisor in charge of the emergency, will take command and make immediate arrangements to have the disabled person(s) moved to a safe location. If necessary to carry out this task, the Security Supervisor will ask for assistance from other members of the Fire Response Team as well as from other volunteers.

NOTE: The Security Supervisor in charge of the evacuation process will determine how many persons will be needed to relocate a disabled person. The factors that will be considered when these assignments are made include: • the weight of the disabled person; • the weight of the wheelchair; • the width of the staircase; and • any other factors deemed necessary to successfully carry out these functions without accidents.

When Fire Wardens and Fire Searchers and other members of the Fire Response Team report the status and location of disabled persons who use wheelchairs to the Fire Command Station, they will include the approximate weight of the disabled persons and their wheelchairs. It is requested that Fire Wardens or Fire Searchers remain with disabled persons while they wait at a Disabled Persons Fire Emergency Assembly Area to be relocated.

Procedure For a Disabled Person Who is Blind

If a disabled person who is blind has to be relocated, he or she will be escorted to a safe location by a Security person, a Fire Warden, a Fire Searcher or a member of the Hunter College Fire Response Team if he or she is able to walk down the stairs.

Procedures For a Disabled Person Who is Deaf

A disabled person who is deaf will be contacted by Security personnel, Fire Wardens, or Fire Searchers in their search of all floors.

Those disabled persons will be informed of the fire and will be given the same directions as other ambulatory persons—they will be told to leave the floor using the appropriate staircase.

Special Caution on Lifting and Carrying Disabled Persons

Before lifting a disabled person, those doing the lifting will, if possible, ask the disabled person how he or she should be lifted. Disabled persons know better than anyone else how they should be lifted or carried in order to avoid being injured.

The procedures for lifting and carrying disabled persons are derived from instructions prepared under the direction of the Center for Independence of the Disabled New York (CIDNY).

Lifting and Carrying Procedures For Disabled Persons Who Use Wheelchairs

If you are a disabled person who must be carried to a safe location because you use a wheelchair or are unable to walk downstairs for any reason, and you are endangered by the fire condition, you will be carried to a safe location by Security personnel with the assistance of a member of the Hunter College Fire Response Team.

Whenever possible, a disabled person who uses a wheelchair will be carried downstairs without being removed from his or her wheelchair. In the following procedures, the "Carrier" indicates the person who will assist the disabled person.

Specific Guidelines for Lifting and Carrying Persons in Wheelchairs:

1. Caution: No disabled person is to enter a stairwell or be carried into a stairwell, or down steps, when ambulatory occupants are using that particular stairwell to leave the building. This is a precaution that must be taken to prevent panic and accidents between ambulatory and non-ambulatory persons.
2. The Fire Tower in the North Building has a wide staircase, and, because it is wide, it may be feasible, under some circumstances, to use this staircase to accommodate a disabled person in a wheelchair while ambulatory persons are going down the staircase.
3. The wheelchair wheels will be placed in a locked position before any lifting takes place.
4. If possible, the Carriers will strap the disabled person to the wheelchair. The disabled person should always be facing forward when carried.
5. The Carriers should be located at each side of the wheelchair. The Carriers should also be facing each other and the disabled person in the wheelchair should be between the carriers.

6. The Carriers should grasp each side of the wheelchair at the upper section of the rear frame and the lower section of the front frame. Moving parts or a weak area on the frame should not be used as a handle to lift the wheelchair.

7. The Carriers should bend their knees slightly before lifting a wheelchair and should straighten their knees as they lift it. Carriers should not use their backs for leverage while lifting as they may injure themselves or be the cause of an accident involving the disabled person.

8. The Carriers will coordinate all movements with the Carrier's partner(s). The Carriers should synchronize their one-step-at-a-time movement downstairs. Carriers should not turn their bodies to face forward or cross one leg over the other leg while moving down the staircase.

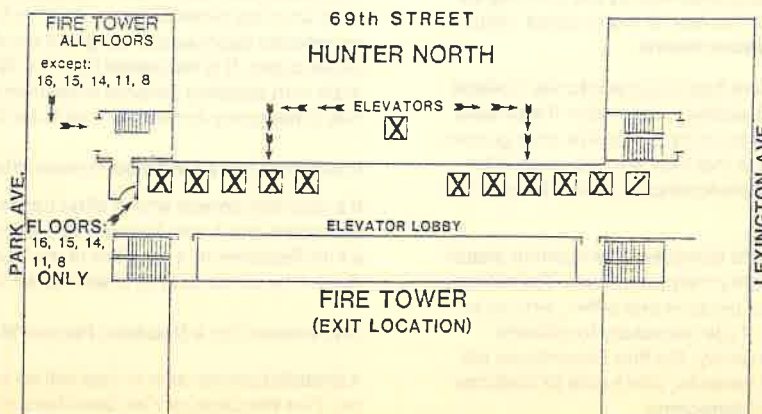
Lifting and Carrying a Disabled Person Independent of His/Her Wheelchair

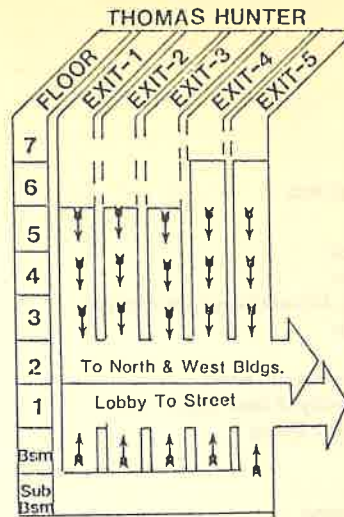
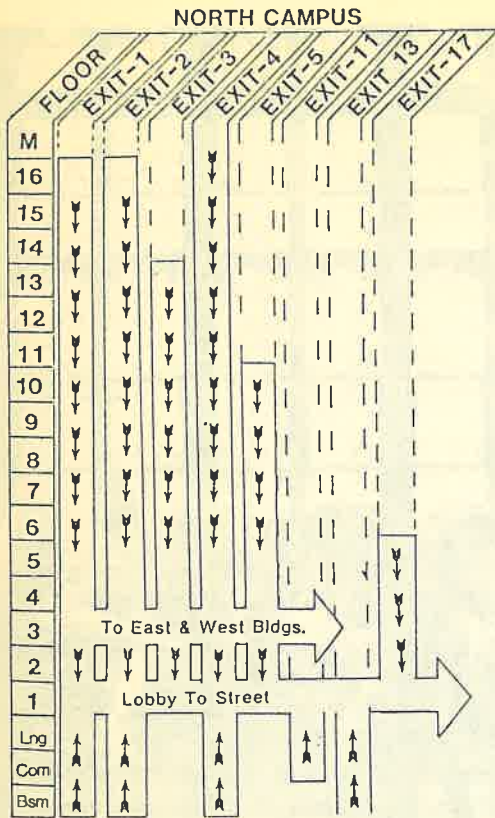
There may be occasions when a disabled person who uses a wheelchair cannot be carried within his or her wheelchair for a variety of reasons. The chair may be too heavy, the staircase may be too narrow, or the Carriers may not be strong enough to carry a person in a chair. If any of these circumstances present themselves, the disabled person will be lifted out of his or her wheelchair and carried in the following manner:

1. The wheels of the wheelchair should be placed in a locked position before lifting the disabled person.
2. The Carriers should be stationed on each side of the wheelchair.
3. If the disabled person is physically able to do so, have that person place his or her arms behind the neck and shoulders of the Carriers before attempting to lift the person.
4. Each Carrier should place one arm around the back of the person to be lifted.
5. Each Carrier should place his or her other arm under the thigh area (close to the knee), of the person to be lifted. Before lifting the person, Carriers should bend their knees. They should not use their backs for leverage. Carriers should not attempt to join hands while lifting or carrying the disabled person.
6. Carriers should descend the stairs using the same method described for carrying a person in a wheelchair.

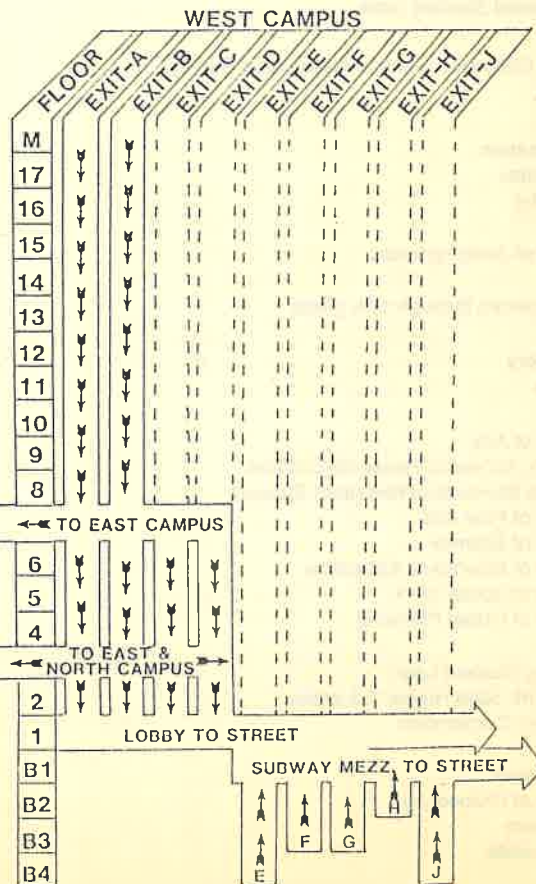
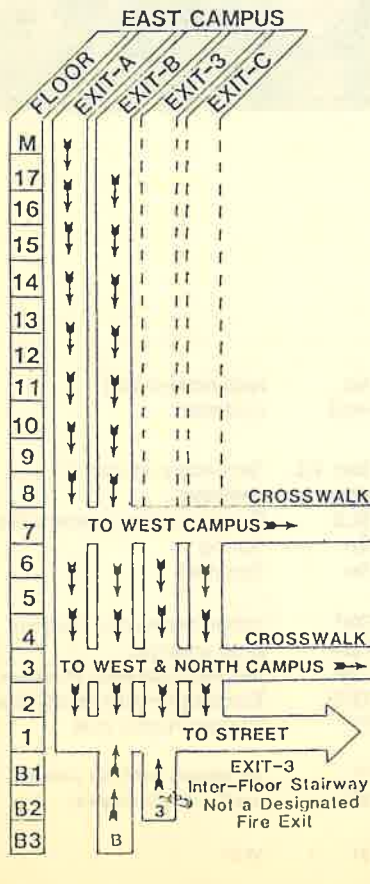
The Hunter College Fire Safety Plan was prepared by Campus Safety and Security with the advice of the New York City Fire Department and other experts. Assistance was also received from the Hunter College 504 Committee.

January 1990





FIRE EXIT ROUTES



Abbreviations

BA Bachelor of Arts

conf conference
coord coordinator
CORE Council on Rehabilitation Education
coreq corequisite
cr credit(s)
CSAF CUNY Student Aid Form
CUNY City University of New York
CWS College Work Study

D day
demon demonstration
dept department
disc discussion
DSW Doctor of Social Work

E evening
equiv equivalent

Fa Fall
ff following

GPA Grade point average
GRE Graduate Record Examination
GSA Graduate Student Association
GSL Guaranteed Student Loan

HEGIS Higher Education General Information Survey
hr(s) hour(s)

ID identification
IN incomplete
instr instructor

JD Doctor of Jurisprudence

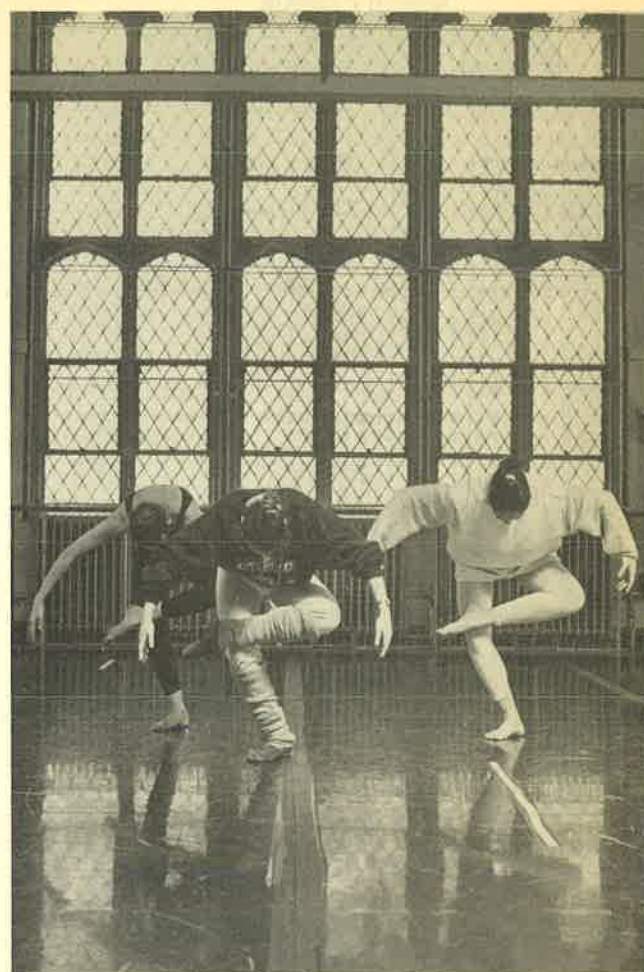
K-12 Kindergarten through 12th grade

lab laboratory
lec lecture

MA Master of Arts
MARC Minority Access to Research Careers
MBRS Minority Biomedical Research Support
MFA Master of Fine Arts
MS Master of Science
MSEd Master of Science in Education
MSW Master of Social Work
MUP Master of Urban Planning

NSL Nursing Student Loan
NYSHESC New York State Higher Education Services Corporation

perm permission
PhD Doctor of Philosophy
pract practicum
prereq prerequisite



rec recommendation
recit recitation

Sec. Ed. Secondary education
sem semester
SLS Supplementary Loans to Assist Students
Sp Spring
Su Summer

TAP Tuition Assistance Program
TBA to be arranged
TEP Teacher Education Program
TESL Teaching English as a Second Language
TH Thomas Hunter Hall

W withdrawal without penalty
WU unofficial withdrawal

yr year

Course Designations

Numbering System Each course in the curriculum is defined by an alphabetical prefix and a 3-digit number. The 3-digit number indicates the level of study: 500-, 600-, and 700-level courses are graduate courses.

Alphabetical Prefixes The following prefixes are used, preceding the 3-digit number, to designate the field of study. They are listed here alphabetically, with the field and department or program to which they pertain. Specific departments and programs appear alphabetically in the table of contents and the index.

Prefix	Field	Department/Program
ADSUP	Advanced supervision	Curriculum & Teaching
AHSA	Allied health services administration	School of Health Sciences
ANTH	Anthropology	Anthropology
ARTCR	Art (studio)	Art
ART H	Art (theory and history)	Art
BILED	Bilingual education	Programs in Education
BIOCHEM	Biochemistry	Interdisciplinary (Biological Sciences & Chemistry)
BIOL	Biological sciences	Biological Sciences
CCSD	College counseling & student development	Educational Foundations
CHEM	Chemistry	Chemistry
CMC	Communications	Communications
COCO	Core counseling	Educational Foundations
COMHE	Community health education	School of Health Sciences
COMSC	Communication sciences	School of Health Sciences
COUNS	Counseling	Educational Foundations
CSCI	Computer science	Computer Science
DANTH	Dance therapy	Health & Physical Education
ECO	Economics and accounting	Economics
EDESL	English as a second language	Curriculum & Teaching
EDFDN	Educational foundations	Educational Foundations
EDSPC	Special education	Special Education
EDUC	Education	Curriculum & Teaching
EOHS	Environmental and occupational health science	School of Health Sciences
ENGL	English	English
FREN	French	Romance Languages
GEOG	Geography	Geology & Geography
GEOL	Geology	Geology & Geography
GSR	Social research—graduate	Sociology
GTECH	Geography technology & methods	Geology & Geography
HED	Health education	Health & Physical Education
HIST	History	History
ITAL	Italian	Romance Languages
LING	Linguistics	Linguistics
MATH	Mathematics	Mathematics & Statistics
MUS	Music	Music
NURS	Nursing	Hunter-Bellevue School of Nursing
NUTR	Nutrition	School of Health Sciences

PED	Physical education	Health & Physical Education
PGEOG	Physical geography	Geology & Geography
PHYS	Physics	Physics & Astronomy
PSYCH	Psychology	Psychology
RAS	Russian area studies	Russian Area Studies
REC	Recreation	Health & Physical Education
REH	Rehabilitation counseling	Educational Foundations
RLING	Romance languages	Romance Languages
SHS	Health sciences — interdisciplinary	School of Health Sciences
SPAN	Spanish	Romance Languages
SSW	Social work	School of Social Work
STAT	Statistics	Mathematics & Statistics
THC	Theatre	Theatre & Film
URBG	Urban affairs	Urban Affairs & Planning
URBP	Urban planning	Urban Affairs & Planning

Credits

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Typesetting PC Publishing Systems

The course descriptions in this catalog summarize the full, official descriptions authorized by the Hunter College Senate. Full descriptions are available in the appropriate school and department offices.

Hunter College reserves the right to change rules, policies, fees, and curricula without advance notice.

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Hunter College is an Equal Opportunity and Affirmative Action Institution. The college does not discriminate on the basis of age, sex, sexual orientation, alienage or citizenship, religion, race, color, national or ethnic origin, handicap, veteran or marital status in its student admissions, employment, access to programs, and administration of educational policies.

William Mendez Jr. is the college acting affirmative action officer and coordinator for Title IX, which prohibits sex discrimination in federally assisted education programs. His office is located in the East building, room E1700 and his telephone number is (212) 772-4242.

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INDEX

A

Abbreviations, 122
 Academic Computing Services, 14
 Academic Honesty, 14
 Accounting (see Economics)
 Accreditation, 1
 Admission, 3 (see also specific schools, departments, & programs)
 AIDS, Drugs, and Community Health, Center on, 6
 Allied Health Services Administration, 63
 Anthropology, 17
 Antidiscrimination Policies, 111
 (Equal Opportunity Programs)
 Archaeology, 18
 Art, 19
 Art Galleries, 15
 Arts and Humanities in Elementary Education, 35
 Assembly Hall, 14
 Assistantships, 11
 Audiology, 65
 Auditoria, 14

B

Bilingual Education, 36
 Biochemistry, 22
 Biological Sciences, 22
 Biomolecular Structure and Function, Institute for, 7
 Bio-Pharmacology, BA/MA in, 23
 Biopsychology, PhD Program in, 90
 Brookdale Center on Aging, 6

C

Career Development Services, 14
 Center for Communication Disorders, 64
 Certification, Teacher, 31
 Change of Address, 13
 Change of Degree Program, 5
 Change of Name, 13
 Chemistry, 24
 City University of New York, 1
 Classics, 25
 Communication Disorders, Center for, 64
 Communication Sciences, 64
 Communications, 26
 Community Health Education, 68
 Computing Services, Academic, 14
 Computer Science, 27
 Counseling, Degree Programs in, 46
 Counseling, General & Psychological, 15
 Course Designations, 123
 Credit, 4 and 13
 CUNY Graduate Tuition Waivers, 9

D

Dance/Movement Therapy, 55
 with MSW in Social Work, 56
 Degree Requirements, 5
 (see also specific schools, departments, & programs)
 Disabled Persons, Fire Safety Plan for, 119
 Disabled Student Services, 15
 Doctoral Program, 2 (see also specific programs)
 Dormitory Facilities, 15
 Drug Free Schools and Campuses, 117

E

Early Childhood (see Education, Elementary)
 Economics, 28
 Education, 30
 Bilingual, 36
 Guide to Programs in, 33
 Counseling, Guidance and, 47
 Elementary, 33
 Health & Physical, 55
 Rehabilitation Counseling, 48

Secondary, 38
 Special, 50
 Supervision & Administration, 46
 Emergency Loan Policy, 11
 Employment (see Career Development Services)
 English, 58
 Environmental and Occupational Health Science, 70
 Equal Opportunity Programs, 111
 Ethnology, 17

F

Family Policy, Center for the Study of, 7
 Fees, 8
 Fellowships, Social Work, 11 (see also specific schools, departments, & programs)
 Field Instruction Centers
 Dance Therapy, 56
 Health Sciences, 73
 Social Work, 103
 Financial Aid, 9
 Fire Safety Plan, 118
 Foreign Language Requirement, 5

G

Galleries, Art, 15
 General Information, 13
 Geology & Geography, 60
 Gerontological Nurse Practitioner Program, 84
 German, 62
 Grade Point Average (GPA), 13
 Minimum for Graduation, 13
 Minimum for Retention, 13
 Grades, 5 and 13
 Graduate Advisors (see specific programs)
 Graduate Programs, List of, 2
 Graduate Record Examination (GRE), 3
 Graduate Students Association, 15
 Graduation, Application for, 5
 Grants, 9
 Guaranteed Student Loan Program, 10
 Guidance & Counseling (Degree program), 47

H

Health Education (see School Health Management)
 Health Sciences, School of, 63
 HEGIS Codes, 2
 History, 74
 Honesty, Academic, 14
 Hunter College, 1 and 13
 Hunter Galleries, 15

I

Incomplete Work in Course, 13
 International Students, 3

L

Latin, 25
 Language Laboratory, 15
 Leaves of Absence, 12 and 13
 Libraries, 16
 Linguistics, 76
 Little Theatre, 14
 Loans, 10

M

Maternal-Child Nursing, 83
 Mathematics and Statistics, 77
 Matriculation, 3, 5, and 12
 (see also individual programs)
 Media and Learning, Center for, 6
 Medical-surgical Nursing, 84
 Multicultural Education, 35
 Music, 79

N

Nondiscrimination, Statement of,

Non-Matriculated Students, 4
 (see also individual programs)
 Nursing, Hunter-Bellevue School of, 83
 Nursing, Traineeships in, 11
 Nutrition, 71

O

Occupational and Environmental Health, Center for, 6
 Ombudsman, 14

P

Philosophy, 86
 Physical Education, Health and, 55
 Physics & Astronomy, 87
 Playhouse, The Sylvia and Danny Kaye, 14
 Playwrights Project, 15
 Political Science, 88
 Psychiatric Nursing, 84
 Psychological Counseling, 15
 Psychology, 89
 Puertorriqueños, Centro de Estudios, 7

R

Reading/Writing Center, 14
 Readmission, 5
 Refund Policy, 8
 Registration, 12
 Regulations, 110
 Rehabilitation Counseling, 48
 Research Centers and Institutes, Hunter College, 6
 Rights, Student, 110
 Romance Languages, 91
 Russian Area Studies, 94

S

Scholarships, 12
 School Health Management, 55
 Senate, Hunter College, 14
 Sexual Harassment Policy and Procedures, 116
 Smoking Policy, Hunter College, 117
 Social Research, 96
 Social Work Fellowships and Grants, 11
 Social Work, School of, 99
 Sociology (see Social Research)
 Special Education, 50
 Speech & Hearing Handicapped, 65
 Student Services & Facilities, 14
 Student Regulations & Rights, 110

T

TAP (Tuition Assistance Program), 9
 Taxability of Financial Aid, 11
 Teacher Placement, 31
 Teaching English to Speakers of Other Languages (TESOL), 44
 Theatre, 104
 Thesis, 5
 Time Limit for Completing Degree, 5
 TOEFL (Test of English as a Foreign Language), 3
 Traineeships in Nursing, 11
 Transfer of Credit, 4
 Tuition & Fees, 7
 Tuition Waivers, 9

U

Undergraduates, 4
 Urban Affairs and Planning, 105
 Urban Research Center, 105

V

Veterans, 11
 Visa, Student, 3

W

Withdrawal from Courses, 13
 Work Study Program, 10

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