

The following program is pending approval for deactivation from the TCC Board of Trustees, Texas Higher Education Coordinating Board (THECB), and Southern Association of Colleges and Schools Commission on Colleges (SACSCOC). Effective September 1, 2026, new enrollments will not be accepted.

Geographic Information Systems (GIS) Programmer

GINS.T003.UG

Level 1 Certificate

STEM Pathway

Learn more about Geographic Information Systems

Credential Map

Program Requirements

Fall Term

- Meet with your Career Advisor
- GISC 1402 - Understanding Geographic Information Systems
- COSC 1301 - Introduction to Computing +

Choose one from the following:

- GISC 2411 - Geographic Information Systems (GIS) Applications **or**
- GISC 2401 - Data Acquisition and Analysis in Geographic Information Systems (GIS)

- ITSE 1411 - Beginning Web Programming

Spring Term

- Meet with your Career Advisor
- GISC 2402 - Geographic Information Systems (GIS) Design with Raster Analysis
- GISC 2404 - Geographic Information Systems (GIS) Design with Vector Analysis
- COSC 1436 - Programming Fundamentals I +

Summer Term

- Meet with your Career Advisor
- COSC 1437 - Programming Fundamentals II +
- GISC 2420 - Intermediate Geographic Information Systems (GIS)
- GISC 2435 - Programming for Geographic Information Systems (GIS) (Capstone) *
- Apply for Graduation

Total Certificate Hours: 39

** Capstone must be taken in the last term.*