

Graduate Certificate in Geographic Information Systems (GIS)

Texas A&M University

GIS technologies are applied to wide-ranging fields with interests in spatially distributed information such as transportation, environmental/resource management, marketing, facility management, healthcare delivery, agriculture, and planning. The demand for individuals in this field is growing rapidly. This certificate program has been designed to meet this growing demand for qualified individuals. The Office of the President has approved this program and it will appear on the official Texas A&M University transcript. This certificate is administered jointly through the Departments of Ecosystem Science and Management and Geography.

1. Students must be admitted to Texas A&M University as a G6, G7, or G8 through the Graduate Admissions Office, 979-845-1071.
2. The program consists of 12 credit hours, including 3 foundation courses as well as 1 elective that must be chosen from the following approved list.
3. Students are expected to maintain a 3.0 GPR for all applicable course work.
4. It is the sole responsibility of the student to complete and submit the application during the semester prior to graduation. To obtain the appropriate forms and instructions, please contact the Academic Advising Office in the Department of Ecosystem Science and Management at 979-862-8993.
5. When completed and approved, the form must be submitted to the Registrar's Office.

Course Requirements

Introductory Level (1 of the following is required)

3 hours

- ESSM 651/BAEN 651 – Geographic Information Systems
- GEOG 660 – Applications for GIS

Intermediate Level (Both are required)

6 hours

- ESSM 652/BAEN 652 – Advanced Topics in GIS
- GEOG 665 – GIS – based Spatial Analysis and Modeling

Specialized GIS Courses (1 of the following is required)

3 hours

- ESSM 653 – Computer Programming for Natural Resource Applications
- ENTO 625 – Landscape Ecology
- PLAN 625 – Introductory GIS in Landscape Architecture and Urban Planning
- ESSM 635 – Ecohydrology
- BAEN 610 - Spatial Technology for Precision Agriculture

If you have any questions please contact the Academic Advising Office in the Department of Ecosystem Science and Management at 979-862-8993, Spatial Science Lab (SSL) at 979-862-7956, or the Director of Graduate Studies in the Department of Geography at 979-845-7128.