GRADUATE CERTIFICATE IN REMOTE SENSING (RS)

Remote Sensing (RS) technologies are applied to a wide-range of fields, such as environmental/resource management, marketing, facility management, agriculture, planning, homeland security and intelligence. In addition, the synergistic linkages between RS technologies and Geographic Information Science (GIS) are increasing. The need for qualified individuals in these fields is growing rapidly. The RS certificate program has been designed to meet this demand.

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.

Certificate guidelines

- Students must be admitted to Texas A&M University as a G6 (non-degree seeking), G7 (master's) or G8 (doctoral) student. (See the TAMU admissions website at: admissions.tamu.edu.)
- The program consists of 12 credit hours, including three foundation courses and one elective. Students must choose courses from the approved list on page 2.
- Students must maintain a 3.0 GPA for all applicable course work.
- All coursework for the certificate must be complete (not in progress) when students apply for the certificate.
- Classes taken for the RS certificate cannot be used in lieu of courses required for GIS certificate or vice versa.
- Substitutions/exceptions: Must be submitted to the GIS/RS Graduate Certificate Committee for consideration and acceptance. The letter of petition must include:
  - GIS or RS classes taken or in progress;
  - a syllabus for each course to be considered for substitution;
  - the corresponding required course for which substitution is requested; and
  - detailed work experience in applicable field.

  For a petition to be considered, it must be completed and returned to Sara Eliason, skeliason@tamu.edu, by October 15 for fall semester or February 15 for spring semester.

Certificate application

Students must submit the signed certificate application form two months PRIOR to graduation to Sara Eliason, ESSM graduate programs assistant, skeliason@tamu.edu.

If you have any questions, please contact:

- Sara Eliason, ESSM graduate programs assistant, at 979.862.6470 or skeliason@tamu.edu,
- Spatial Science Lab (SSL) at 979.862.7956, or
- the Director of Graduate Studies in the Department of Geography at 979.845.7128.

Approved course options

Introductory level (one of the following is required).....**3 hours**

- ESSM 655 – Remote Sensing for Natural Resources Management
- GEOG 651 – Remote Sensing for Geographical Analysis

Intermediate level (both are required).....**6 hours**

- ESSM 656 – Advanced Remote Sensing
- GEOG 661 – Digital Image Processing and Analysis

Specialized RS courses (one of the following is required).....**3 hours**

- ATMO 655 – Satellite Data in Meteorology
- ECEN 634 – Morphological Methods in Image and Signal Processing
- ECEN 642 – Digital Image Processing
- ECEN 649 – Pattern Recognition
- GEOG 696 – Geomorphology and Remote Sensing
- INTA 653 – Technical Collections Systems in International Security