

# Graduate Certificate in Remote Sensing (RS) Texas A&M University

Remote Sensing (RS) technologies are applied to wide-ranging 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 Systems (GIS) are rapidly increasing. 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.

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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**

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

### **Intermediate Level (Both are required) 6 hours**

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

**Specialized GIS Courses (1 of the following is required)**

**3 hours**

- INTA 689-653 - Technical Collection Systems in International Security
- GEOG 696 – Geomorphology and Remote Sensing
- ATMO 655 – Satellite Data in Meteorology
- ECEN 634 – Morphological Methods in Image and Signal Processing
- ECEN 642 – Digital Image Processing
- ECEN 649 – Pattern Recognition

If you have any questions please contact the Department of Ecosystem Science and Management at 979-862-8993 or the Director of Graduate Studies in the Department of Geography at 979-845-7128.