

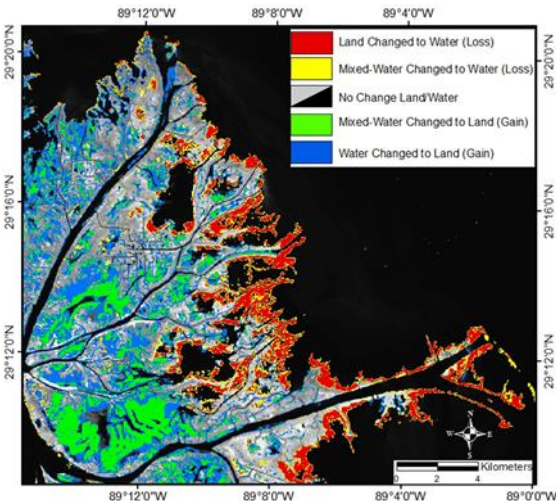


Tulane University
School of Science and Engineering
Department of Earth & Environmental Sciences

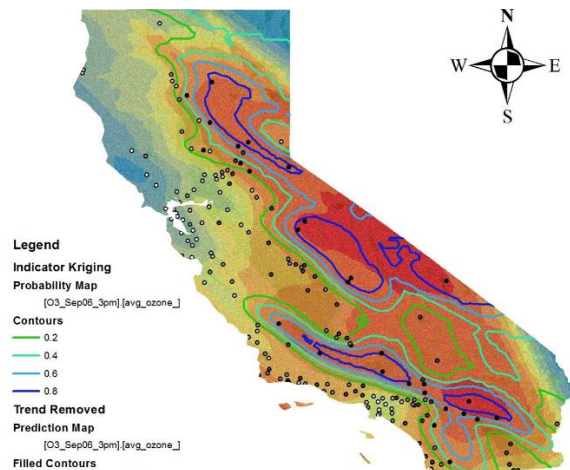
Geographic Information Systems (GIS) Certificate Program

PROGRAM OVERVIEW

Tulane University offers the region's first complete certificate program in Geographic Information Systems (GIS). The Department of Earth and Environmental Sciences offer a GIS Certificate for undergraduate students and graduate students. GIS offers an integral aspect for supporting decision making in a variety of fields such as physical and environmental sciences, urban planning and management, political science, civil engineering, economy/business, education administration, real estate, public health and health care. The primary goal of the program is to ensure that students become sufficiently grounded in the concepts and theory behind GIS including organization, management, and visualization of geospatial data. Students will have the opportunity to gain valuable GIS knowledge and skills that can be applied to careers in both academia and industry. GIS certificates will provide Tulane students and professionals additional future career opportunities and enhance their present positions. The GIS certificate is a 13-hour program administered by the Department of Earth and Environmental Sciences.



GIS model for land loss in Cupits Gap subdelta in southern Louisiana.



GIS model for concentration of Ozone in California.

COURSEWORK

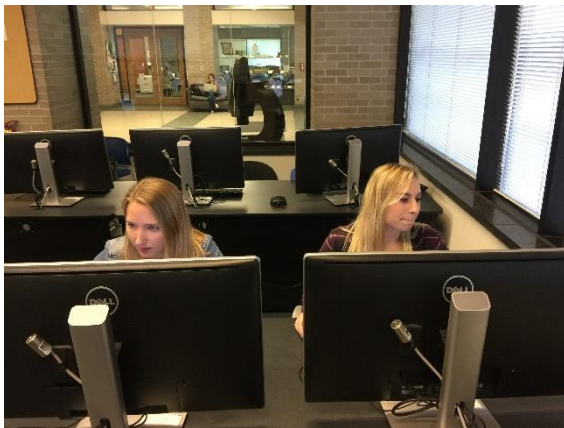
Courswork consists of TWO core courses, and TWO elective course. Students will need to complete a minimum of 13 credits while in the program. Students may transfer 6 credits of required coursework taken previously (approval needed if taken at another institution). Students cannot transfer more than 3 credits of special topics courses.

▪ **Required Courses**

1. EENS 3150/6150 (EBIO 6150) “Introduction to GIS” (4 Credits), Fall and Summer
2. EENS 4030/6030 “Advanced GIS” (3 Credits), Spring and Summer

▪ **Elective Courses**

1. EENS 4180/6180: Introduction to Remote Sensing (3 Credits), Fall
2. EENS 4380/6380: Remote Sensing for Environmental Analysis(3 Credits), Spring
3. EENS 4020/6020: “Geostatistics” (3 Credits), Fall
4. EENS 4390/6390: Geospatial Data Analysis” (3 Credits), Fall
5. ANTH 7096: “GIS in Archaeology” (3 Credits), Fall
6. Special Topics: (3 Credits), student can use GIS and Remote Sensing in any research topic. (Independent study should be approved by the Director of GIS program), Fall, Spring, Summer. Students cannot exceed 3 credits for special topic courses.



CAREERS

- Locate your dream job as Geoscientist, Geospatial Analyst, GIS Analyst, GIS Data Manager, GIS Developer, GIS Specialist, GIS Technician, and Project Manager.
- The geospatial market is growing at an annual rate of nearly 35%, with commercial ventures increasing at a rate of 100% each year. According to the U.S. Department of Labor, the median wages for a Geographic Information Systems Technicians, Scientists, or Technologists are \$86,510 per year nationwide.

ADMISSION

- **Undergraduate GIS Certificate Program**
There are no requirements for Tulane undergraduate students. No prior knowledge of GIS is required.
 - **Graduate GIS Certificate Program**
Students must be admitted as a graduate student at Tulane University in order to apply for the GIS certificate program. No prior knowledge of GIS is required.
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APPLY NOW

Students should enroll in the GIS Certificate Program within the Department of Earth and Environmental Sciences by completing the required application material and sending it electronically to the program director. To receive the GIS Certificate students must fulfill the requirements of the program by completing the required courses. Once these are completed students must fill out the GIS Completion Form and have it signed by the director of the GIS Certificate Program and the Chair of the department of Earth and Environmental Sciences. A letter containing the student's name, student ID # will be sent to the Dean of School of Science and Engineering who will alert the transcript office so that completion of the GIS certificate program can be recorded on the student transcripts. Copies of the signed form and letter should be returned to the director of the program. Once the signed form and letter are returned to the program directors, the Certificate Program will issue the certificate of completion to the student.

CONTACT US

GIS Certificate Program

Dept. of Earth & Environmental Sciences
101 Blessey Hall
New Orleans, LA 70118
Campus Map | Our Location
Phone: 504-865-5198
Fax: 504-865-5199

Program Director

Dr. Reda Amer
504-862-3220
Ramer1@tulane.edu



Tulane University
School of Science and Engineering
Department of Earth & Environmental Sciences

Geographic Information Systems (GIS) Certificate Program Application Form

Name: _____
Last First MI

Tulane ID#: _____ Email: _____ Phone: _____

School: _____ Department: _____ Program: _____

Mailing Address: _____
Number & Street City State Zip

Type of GIS Certificate: Undergraduate () Graduate () Professional ()

Certificate Coursework:

Undergraduate Course	Graduate Course	Course Name	Grade	Semester/Year
<input type="checkbox"/> EENS 3150/3151	<input type="checkbox"/> EENS 6150/6151	Introduction to GIS		
<input type="checkbox"/> EBIO 3150/3151	<input type="checkbox"/> EBIO 6150/6151	Introduction to GIS		
<input type="checkbox"/> EENS 4030	<input type="checkbox"/> EENS 6030	Advanced GIS		
<input type="checkbox"/> EENS 4180	<input type="checkbox"/> EENS 6180	Introduction to Remote Sensing		
<input type="checkbox"/> EENS 4380	<input type="checkbox"/> EENS 6380	Remote Sensing for Environmental Analysis		
<input type="checkbox"/> EENS 4020	<input type="checkbox"/> EENS 6020	Geostatistics		
<input type="checkbox"/> EENS 4390	<input type="checkbox"/> EENS 6390	Geospatial Data Analysis		
<input type="checkbox"/> ANTH 7096	<input type="checkbox"/> ANTH 7096	GIS in Archaeology		
<input type="checkbox"/> EENS 4080	<input type="checkbox"/> EENS 6080	Special Topics		

Please attach Transcript

Submit the application form and transcript via email (PDF) or by mail to:

Dr. Reda Amer
Dept. of Earth & Environmental Sciences
101 Blessey Hall
New Orleans, LA 70118
ramer1@tulane.edu

Official Use Only		
Application received on:		
Requirements completed:		
Comments: (Please indicate any course substitutions or alterations of certificate requirements)		
Approved by:		
Program Director	Department Chair	Academic Dean
Date:	Date	Date: