

## **Professional Certificate in Geographic Information Science (CGIS)**

The graduate level professional certificate in Geographic Information Science is designed for individuals who would like to learn more about GISci methodologies, technology and concepts in their professional lives.

### **Admission Requirements**

—A bachelors degree (BA or BS) in geography or a related field.

—A letter of intent describing your interests and goals.

—Your GRE scores and transcripts.

—Application is made via the GSU Graduate Office at:  
[http://www.cas.gsu.edu/grad\\_admission.html](http://www.cas.gsu.edu/grad_admission.html)

### **GIS Certificate Requirements (16-18 credit hours total)**

Required Courses (12 credit hours)

1. The student must take the following courses:

GEOG 6518. Digital Cartography (4 credit hours) and  
GEOG 6532. Geographic Information Systems (4 credit hours)

*GEOG 2206 Introductory Mapping and Geographic Information Science (3 credit hours) is the prerequisite for GEOG 6518. This prerequisite may be waived if the student has taken a similar course before or can demonstrate equivalent experience.*

2. Select one:

GEOG 6534. Advanced Geographic Information Systems (4 credit hours)  
GEOG 6530. Introduction to Remote Sensing (4 credit hours)

3. Elective Courses (3 hours)

The student must take 1 of the following courses (3 hours):

GEOG 6648. Biogeography (3 credit hours)  
GEOG 6762. Economic Geography (3 credit hours)  
GEOG 6764. Urban Geography (3 credit hours)  
GEOG 6766. Urban Transportation Planning (3 credit hours)  
ANTH 6200. Urban Anthropology (3 credit hours)  
ANTH 6400. Health and Culture (3 credit hours)  
ANTH 6440. Epidemiology and Anthropology (3 credit hours)  
ANTH 6550. Field School in Anthropology (3 credit hours)  
ANTH 6590. Archaeological Field Methods (3 credit hours)

With the approval of the Geography Graduate Advisor, one of the following courses may be substituted for the elective course:

GEOG8030 Seminar in Cartography  
GEOG 6640 Geomorphology  
GEOG 6650 Applied Hydrology  
GEOG 6530 Introduction in Remote Sensing (if not taken in section 2 above)  
GEOL 6007 Hydrogeology  
BIOL 6053 Field Ecology  
CJ 8010 Contemporary Criminal Justice  
HIST 8600 Introduction to Historic Preservation  
MK 8200 Marketing Research  
PAUS 8021 Urban Planning and Demography  
POLS 8115 Urban Political Behavior  
PSYC 6520 Environmental Psychology  
RE 8060 Applied Real Estate Market Analysis  
SOC 8266 Urban Sociology

#### 4. Practical Training (1-3 hours)

Select one:

GEOG 6832 Internship (3 hours) *or*  
GEOG 6834 Applied Research in GIS (1-3 hours) *or*  
GEOG 8001 Research Methods (with permission of instructor) (3 credit hours)

#### 5. Examination

The student must pass an examination of GIS knowledge and applications after all GIS Certificate course work is completed or during the final semester of GIS Certificate course work. The exam will be administered near the end of each semester. Contact the Geography Graduate Advisor for additional information.

#### **Notes**

1. If students have previously taken any courses above at the 4000 undergraduate level (eg., as a GSU student) other courses will be substituted in consultation with the Graduate Director.
2. Courses taken in the Certificate may be applicable to a GSU Masters in Geography (separate application required).