

GEOGRAPHY

Faculty

G. Nelson, Sun

Students may obtain either the one-year certificate in Geographic Information Systems (GIS), or the Associate of Science in GIS. Additionally, students in many fields may obtain a minor concentration (equivalent to the certificate curriculum) in the course of obtaining their associate's degree.

The certificate program is designed for persons wishing to obtain GIS training in order to enhance their academic degree or current career choice.

Students seeking either the certificate or the associate of science degree must complete a minimum of 32 credits in the major requirements listed. These 32 credits are split between the categories of basic skills, core requirements, and area of expertise. Consideration toward satisfying some of the requirements will be given to students entering the program who have had documented work experience, equivalent course work at another institution, or completion of workshops from recognized providers such as ESRI. Students should consult with their advisor early in the application process to determine eligibility of previous work. Students wanting credit for work experience or workshop participation will be asked to supply a portfolio of work which will be evaluated by program faculty.

Associate of Science Degree Geographic Information Systems (Recommended Curriculum)

General Education (Minimum 32 credits)	Credits
General education coursework can be completed from within or outside of the major field of study.	
1. Exploration and Participation	
Laboratory science	4
Mathematics	3-4
2. Communication	
ENGL 1010 English I: Composition	3
ENGL 1020 English II: Composition	3
3. Relationship with the World	
Human behavior	3
U.S. and Wyoming constitutions	1-3
Cultural environment	3
4. General Education Electives	
Must be chosen from areas 1, 2, or 3 above.	
5. Physical Education	1

Major Requirements (minimum 32 credits)

Basic Skills: Students taking the GIS curriculum are expected to be proficient in basic computer skills. Proficiency can be demonstrated by documented work experience, transcripts from another institution, or by taking four credits from following:

CMAP 1505 Introduction to Computers	1
CMAP 1510 Computer Literacy	3
CMAP 1610 Windows I	2

Core Requirements: must be taken by all GIS majors

GEOG 1080 Introduction to GPS and Maps	3
GEOG 1100 Introduction to GIS	4
GEOG 1110 Management and Implementation of GIS	4

GEOG 2100 Advanced GIS	4
GEOG 2150 Map Use and Analysis	3
Electives (minimum)	14

Students should select a minimum of 14 credits from the following list of courses to satisfy their area of expertise.

Electives to be selected in consultation with advisor
AGRI 1020, CMAP 1815, COSC 1010, 1030, 2030, 2405, 2406, ES 1060, ENTK 1010, 1510, 2500, 2505, 2550, 1500, 2520, 2550, 2560, 2570, GEOG 1000, 1050, 2480, 2490, GEOL 1100, 2150, RETK 2500. Other courses in the departments listed above, BIOL and FIRE may be taken with advisor approval.

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

Certificate in Geographic Information Systems

Certificate Requirements (minimum 32 credits)

Basic Skills: Students taking the GIS curriculum are expected to be proficient in basic computer skills. Proficiency can be demonstrated by documented work experience, transcripts from another institution, or by taking four credits from following:

CMAP 1505 Introduction to Computers	1
CMAP 1510 Computer Literacy	3
CMAP 1610 Windows I	2

Core Requirements: must be taken by all GIS majors

GEOG 1080 Introduction to GPS and Maps	3
GEOG 1100 Introduction to GIS (spring only)	4
GEOG 1110 Management and Implementation of GIS	4
GEOG 2100 Advanced GIS	4
GEOG 2150 Map Use and Analysis	3
Electives (minimum)	14

Students should select a minimum of 14 credits from the following list of courses to satisfy their area of expertise.

Electives to be selected in consultation with advisor
AGRI 1020, CMAP 1815, COSC 1010, 1030, 2030, 2405, 2406, ES 1060, ENTK 1010, 1510, 2500, 2505, 2550, 1500, 2520, 2550, 2560, 2570, GEOG 1000, 1050, 2480, 2490, GEOL 1100, 2150, RETK 2500. Other courses in the departments listed above, BIOL and FIRE may be taken with advisor approval.

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

ONLY COURSES NUMBERED 1000 OR ABOVE CAN BE USED TOWARD THE ASSOCIATE OF ARTS, ASSOCIATE OF SCIENCE, ASSOCIATE OF BUSINESS, ASSOCIATE OF FINE ARTS AND ASSOCIATE OF APPLIED SCIENCE DEGREES.