

## About this Minor . . .

The Physical and Environmental Sciences (PES) Department at Colorado Mesa University offers a minor in Geographic Information Science and Technology. The courses are open to all students interested in broadening their knowledge and enhancing job-related skills in a rapidly expanding market of computer-based technology. The multidisciplinary nature of the geographic information science and technology allows students from a wide variety of fields to participate in this exciting program.

Geographic Information Science and Technology includes Geographic Information Systems, Global Positioning Systems, and Remote Sensing. A geographic information system (GIS) is a computer-based tool for mapping and analyzing geospatial data. GIS technology is a subset of information systems where the databases consists of features, activities, or events that are definable in space as points, lines, or areas, GPS (Global Positioning System) is a satellite system that allows users to collect precise geographic data for use in mapping. Remote sensing refers to any technique whereby information about objects and the environment is obtained from a distance, such as from aircrafts or satellites. Remote sensing often permits us to greatly expand our spectral view of the earth and "see" the world much more clearly than we can with the unaided eye.

There is a strong demand for people who are trained in Geographic Information Science and Technology and this minor will assist students in securing jobs in this rapidly growing field. GIS/GPS can be used for cartography, business, biology, geology, environmental science, history, archeology, and criminal justice.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/gist/index.html

## **POLICIES:**

- 1. Please see the catalog for a complete list of graduation requirements.
- This program sheet must be submitted with your graduation planning sheet to your advisor during the semester prior to the semester of graduation, no later than October 1 for spring graduates, no later than March 1 for fall graduates. You must turn in your "Intent to Graduate" form to the Registrar's Office by September 15 if you plan to graduate the following May, and by February 15 if you plan to graduate the following December.
- Your advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the Department Head for signature. Finally, the 3. Department Head will submit the signed forms to the Registrar's Office. (Students cannot handle the forms once the advisor signs.)
- If your petition for graduation is denied, it will be your responsibility to reapply for graduation in a subsequent semester. Your "Intent to 4. Graduate" does not automatically move to a later graduation date.
- NOTE: During your senior year, you will be required to take a capstone exit assessment/project (e.g., Major Field Achievement Test) 5.

NAME: \_\_\_\_\_\_ STUDENT ID # \_\_\_\_\_

## LOCAL ADDRESS AND PHONE NUMBER:

\_, hereby certify that I have completed (or will complete) all the courses listed I. (Signature) on the Program Sheet. I further certify that the grade listed for those courses is the final course grade received except for the courses in which I am currently enrolled and the courses which I complete next semester. I have indicated the semester in which I will complete these courses.

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Signature of Geographic Information Systems Advisor	Date	
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Signature of Department Head	Date	
		_20_
Signature of Registrar	Date	

## Students should work closely with a faculty advisor when selecting and scheduling courses prior to registration.

Degree Requirements:

- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- A GPA of 2.00 or higher in the minor is required.
- The number of minors a student may receive at Colorado Mesa University shall not exceed two.
- A student must follow the graduation requirements either from 1) the program sheet for the major in effect at the time the student officially declares a major; or 2) a program sheet for the major approved for a year subsequent to the year during which the student officially declares the major and is approved for the student by the department head. Because a program may have requirements specific to the degree, the student should check with the faculty advisor for additional criteria. It is the student's responsibility to be aware of, and follow, all requirements for the degree being pursued. Any exceptions or substitutions must be approved by the student's faculty advisor and Department Head.
- When filling out the program sheet a course can be used only once.
- See the "Undergraduate Graduation Requirements" in the catalog for additional graduation information.

Sem.hrs	Grade	Term/Trns		(BIOL, ENVS)			
			Course No Title		Sem.hrs	Grade	Term/Trns
ours minimu	ım)						
1			GEOL 375	Global Positioning Systems			
				for GIS	2		
			GEOL 375L	Global Positioning Systems			
nsing 2				for GIS Lab	1		
nsing			GEOL 432	Advanced GIS	2		
1			GEOL 432L	Advanced GIS Lab	1		
2			GEOL 445	Geospatial Database & Desig	n 2		
			GEOL 445L	Geospatial Database & Desig	n		
1				Lab	1		
		ours minimum) 1 y 3 nsing 2	1 y 3 nsing 2	Durs minimum)  1  Course No T    1   GEOL 375    y  3     nsing 2     1     GEOL 375L  GEOL 375L    GEOL 432L  GEOL 432L    2   GEOL 445L	ours minimum)  1   Course No Title    1   GEOL 375  Global Positioning Systems for GIS    y  3   GEOL 375L  Global Positioning Systems for GIS    nsing   GEOL 432L  Advanced GIS    1   GEOL 432L  Advanced GIS Lab    2   GEOL 445L  Geospatial Database & Desig	Durs minimum)  1   Course No Title  Sem.hrs    1   GEOL 375  Global Positioning Systems for GIS  2    y  3   GEOL 375L  Global Positioning Systems for GIS Lab  1    nsing   GEOL 432  Advanced GIS  2    1   GEOL 432L  Advanced GIS Lab  1    2   GEOL 445L  Geospatial Database & Design	course minimum)  1   Course No Title  Sem.hrs  Grade    y  3   GEOL 375  Global Positioning Systems for GIS  2     nsing   GEOL 375L  Global Positioning Systems for GIS Lab  1     nsing   GEOL 432  Advanced GIS  2     1   GEOL 432L  Advanced GIS Lab  1     2   GEOL 445L  Geospatial Database & Design  2