

2015-2016 PETITION/PROGRAM SHEET

Award: Professional Certificate

Program of Study: Geographic Information Science and Technology

About this Certificate . . .

The Physical and Environmental Sciences (PES) Department at Colorado Mesa University offers a certificate 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 special case of information systems where the database 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 aircrafts or satellites. The 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 certificate 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/career/whatmajor.html.

NAME:	STUDENT ID #							
LOCAL ADDRESS AND PHONE NUMBER:								
	()							
I, (Signature), here on the Program Sheet. I have read and understand the policies listed on the la those courses is the final course grade received except for the courses in which seemester. I have indicated the semester in which I will complete these courses.	st page of this program sheet. I further cert th I am currently enrolled and the courses v	ify that the grade listed for						
Signature of Geographic Information Systems Advisor	Date	20						
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 certificate must be in courses numbered 300 or above.
- A GPA of 2.00 or higher in the certificate is required.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- A student must follow the CMU 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.

REQUIRED COURSES (16 Semester ho	urs)							
Course No Title	Sem.hrs	Grade	Term/Trns	Course No T	Title	Sem.hrs	Grade	Term/Trns
GEOL 305 Cartography for GIS OR	1			GEOL 375	Global Positioning Systems for GIS	2		
GEOG 131 Introduction to Cartography				GEOL 375L	0 3			
GEOL 321 Introduction to Remote Sens	sing 2				for GIS Lab	1		
GEOL 321L Introduction to Remote Sens	sing			GEOL 432	Advanced GIS	2		
Lab	1			GEOL 432L	Advanced GIS Lab	1		
GEOL 332 Introduction to GIS	2			GEOL 445	Geospatial Database & Designation	gn 2		
(BIOL, ENVS)				GEOL 445L	Geospatial Database & Designation	gn		
GEOL 332L Introduction to GIS Lab	1				Lab	1		
(BIOL, ENVS)								

POLICIES:

- 1. Please see the catalog for a complete list of graduation requirements.
- 2. 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.
- 3. Your advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the Department Head for signature. Finally, the Department Head will submit the signed forms to the Registrar's Office. (Students cannot handle the forms once the advisor signs.)
- 4. If your petition for graduation is denied, it will be your responsibility to reapply for graduation in a subsequent semester. Your "Intent to Graduate" does not automatically move to a later graduation date.
- 5. NOTE: During your final year, you will be required to take a capstone exit assessment/project (e.g., Major Field Achievement Test).