

APPLIED GEOGRAPHY

Cartography and Geographic Information Systems Certificate: 184

Total Credits: 21

Catalog Edition: 2017-2018

Program Description

This certificate curriculum provides training in cartography and geographic information systems. Enabling the student to develop, construct, and use maps and other imagery to solve problems relating to the earth, its resources, and its development. These skills are used by professionals employed in federal mapping and related agencies in the Washington metropolitan region.

Program Outcomes

Upon completion of this program a student will be able to:

- Use various mapping software packages.
- Apply their enhanced cartographic skills.
- Use maps as tools.
- Conduct research and be familiar with the various research resources available, i.e., county, city, and federal government; the private sector; and online data.
- Have gained an appreciation of the various job opportunities available through attending trips to various cartographic facilities.
- Integrate other software as appropriate into their mapping projects, e.g., Adobe Illustrator, Photoshop, and other graphics packages.
- Use various techniques that improve their cartographic, GIS, and spatial analytic skills.
- Create portfolios and PowerPoint presentations and give presentations that strengthen their communication, interpersonal, and articulation skills.
- Present and explain their work at map design competitions and at poster presentations at conferences.

Program Advising

Rockville

- **Prof. Allison**
240-567-7614
Tanya.allison@montgomerycollege.edu

Germantown

- **Prof. Allison**
240-567-7614
Tanya.allison@montgomerycollege.edu

Takoma Park/Silver Spring

- **Prof. Allison**
240-567-7614
Tanya.allison@montgomerycollege.edu

For more information please visit:

<http://www.montgomerycollege.edu/appliedgeography>

2017-2018 Program Advising Guide

An Academic Reference Tool for Students

APPLIED GEOGRAPHY
Cartography and Geographic Information Systems Certificate: 184

Program requirements:

- [GEOG 101 - Introduction to Geography](#) 3 semester hours
- [GEOG 240 - Introduction to Cartography](#) 3 semester hours (mandatory)
- [GEOG 250 - Interpretation of Geographic Imagery: Use and Analysis](#) 3 semester hours #
- [GEOG 251 - Principles of Map Design](#) 3 semester hours
- [GEOG 255 - Introduction to Computer Mapping](#) 3 semester hours
- [GEOG 260 - Introduction to Geographic Information Systems](#) 3 semester hours
- [GEOG 270 - Advanced Geographic Information Systems](#) 3 semester hours

Total Credit Hours: 21

Advising Notes

- EACH NEW STUDENT **MUST** SCHEDULE AN ADVISING APPOINTMENT WITH PROFESSOR TANYA ALLISON, THE PROGRAM COORDINATOR AND ADVISOR.

Please email Tanya.allison@montgomerycollege.edu to schedule an appointment or call 240-567-7614.

- Link to program in catalog -

http://catalog.montgomerycollege.edu/preview_program.php?catoid=2&poid=219&returnto=112

Applied Geography

A.A.S. Degree (R)

First Semester

ENGL 101	Introduction to College Writing	3
GEOG 101	Introduction to Geography	3
GEOG 240	Introduction to Cartography	3
	Mathematics foundation	3
	General education elective	4

Second Semester

GEOG 113	Economic Geography	3
GEOG 130	Global Geography	3
	English foundation	3
	Natural Sciences distribution with lab	4
	Elective	3

Third Semester

GEOG 105	Cultural Geography	3
GEOG 124	Physical Geography	4
GEOG 250	Interpretation of Geographic Imagery	3
	Arts or humanities distribution	3
	Geography elective	3

Fourth Semester

GEOG 235	Preserving Our Natural Heritage	3
	OR	
GEOG 222	Geography of the United States	3
	Behavioral and social sciences distribution	3
	Geography elective	3
	Geography elective	3

Cartography and Geographic Information Systems certificate

GEOG 101	Introduction to Geography	3
GEOG 240	Introduction to Cartography	3
GEOG 250	Interpretation of Geographic Imagery	3
GEOG 251	Principles of Map Design	3
GEOG 255	Introduction to Computer Mapping	3
GEOG 260	Intro to Geographic Information Systems	3
GEOG 270	Advanced Geographic Information Systems	3

Geographic Education certificate

GEOG 101	Introduction to Geography	3
GEOG 105	Cultural Geography	3
GEOG 124	Physical Geography	4
GEOG 130	Global Geography	3
GEOG 235	Preserving our Natural Heritage	3
	Geography elective	3

NAME: _____

I.D. #: _____

W: _____

H: _____

C: _____

Degree: _____

Major: _____

University: _____

Geography Electives

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- GEOG 211 Political Geography
- GEOG 251 Principles of Map Design
- GEOG 255 Introduction to Computer Mapping
- GEOG 260 Introduction to GIS
- GEOG 270 Advanced GIS

183

- GEOG 113 Economic Geography
- GEOG 211 Political Geography
- GEOG 222 Geography of the United States
- GEOG 265 Research Topics in Applied Geography

Graduation Date

Fall:

Spring:

Summer:

*ENGL 101 if needed for ENGL 102/103 or general elective

Transfer Opportunities

Montgomery College has partnerships with multiple four-year institutions and the tools to help you transfer. To learn more please visit: <http://cms.montgomerycollege.edu/Transfer/> or <http://artsys.usmd.edu/>

Get Involved at MC!

Employers and Transfer Institutions are looking for experience outside the classroom. Internships, scholarships, seasonal work, and, on occasion, volunteer opportunities are available.

MC Student Clubs and Organizations

Gamma Theta Upsilon and the Geography Club

Related Careers

Bachelor's degree in Geography
Cartographer
Geospatial Analyst
GIS Specialist
GIS Technician
Census data

Career Services

<http://www.montgomerycollege.edu/career>

Career Coach

A valuable online search tool that will give you the opportunity to explore hundreds of potential careers or job possibilities in Maryland and the Washington D.C. metropolitan area.

Get started today on your road to a new future and give it a try. Visit the website listed below:

<https://montgomerycollege.emsicareercoach.com>

Notes:

Please schedule an appointment with Professor Tanya Allison, Program Coordinator and Advisor, to discuss program requirements and plan your class schedule!

240-567-7614

Tanya.allison@montgomerycollege.edu

GEOG240, GEOG251, and GEOG260 only offered in Fall semesters.

GEOG250, GEOG255, and GEOG270 only offered in Spring semesters.