

# CLAS Academic Advising Center – Grand Valley State University

Academic advising for students pursuing majors and/or minors offered by the College of Liberal Arts and Sciences  
Call Us: (616) 331-8585 • Visit us On-line: [www.gvsu.edu/clasadvising](http://www.gvsu.edu/clasadvising)

## Geographic Techniques Minor

Completion of this minor will provide a student with an important skill set that will serve them well in the job market or in graduate school. Literacy in geospatial techniques will be a strong adjunct to students who, for example, major in public administration, natural resource management, geology, sociology, anthropology, computer science, engineering, business and economics, public health, criminal justice and many more fields of study. Geographic techniques allow for the visualization of complex spatial (geographic) relationships that are essential to understanding underlying processes (for example, social, political, environmental) that help the geographer/analyst understand change over space and time. Literacy in geospatial techniques is also an important enhancement for future employment. Many agencies and employers use geospatial techniques as part of their core business.

*Students are required to complete a minimum of 25 credit hours.*

Complete all of the following:

- \_\_\_\_\_ CIS 160 – Programming with Visual Basic (3 cr.) (Prereq: MTH 110)
- \_\_\_\_\_ CIS 230 – Hardware and Software (3 cr.) (Prereq: CIS 150)
- \_\_\_\_\_ GPY 200 – Computer Cartography (3 cr.)
- \_\_\_\_\_ GPY 307 – Introduction to Computer Mapping/Geographic Information Systems (3 cr.) (Prereq: sophomore standing or permission of instructor)

Choose 13 credits of electives from the following:

- \_\_\_\_\_ CIS 162 – Computer Science I (4 cr.) (Prereq: MTH 110)
- \_\_\_\_\_ CIS 260 – Application Development in Visual Basic (4 cr.) (Prereq: CIS 162)
- \_\_\_\_\_ GPY 370 – Introduction to Remote Sensing (3 cr.)
- \_\_\_\_\_ GPY 407 – Advanced GIS (4 cr.) (Prereq: GPY 307)
- \_\_\_\_\_ GPY 470 – Digital Image Processing (3 cr.) (Prereq: GPY 307 or NRM 350)
- \_\_\_\_\_ NRM 250 – Resource Measurement and Maps (3 cr.)
- \_\_\_\_\_ NRM 395 – GIS Applications in Resource Management (3 cr.) (Prereq: GPY 307 or NRM 250)

It is imperative to meet with your faculty advisor or an advisor in the CLAS Academic Advising Center early in your career.

Your academic advisor in the CLAS Academic Advising Center is Betty Schaner ([schanerb@gvsu.edu](mailto:schanerb@gvsu.edu))

The CLAS Academic Advising Center is located in C-1-140 MAK, 616-331-8585.

Online at: <http://www.gvsu.edu/clasadvising>

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