

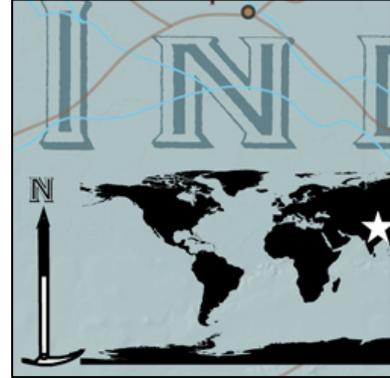
## ***GEOG 205 – INTRODUCTION TO GIS***

Antelope Valley College | Fall 2014 | 3 Units | Location: HS 253 | Time: Weds., 7:00-10:05pm

<http://avconline.avc.edu/mpesses/geog205.html>

### ***Instructor:***

Mike Pesses  
(661) 722.6300 x6914  
mpesses@avc.edu  
HS 252  
Office hours: Mon.-Thurs. 8-9:00am & Tues. 11:00am-12:00pm.



### ***Prerequisites:***

None (*Advisory: Completion of or concurrent enrollment in GEOG 201 or FTEC 201 and completion of or concurrent enrollment in MATH 102, completion of CA 103 and MATH 080, and eligibility for College Level Reading and ENGL 101.*)

### ***Required Text and Materials***

- Online reader to be discussed in class
- Flash Memory Drive, at least 4GB recommended
- *Recommended:* 1 year home use license of *ArcGIS Advanced* (<http://www.esri.com/software/arcgis/arcgis-for-home>)

### ***Course Description***

This course will introduce students to the fundamentals of Geographic Information Systems (GIS). Students will explore the methods, technology and software used to capture, manage, analyze and present geographic data. Students will use their knowledge to complete a GIS project in a field of interest. This course is intended for Geography/GIS majors and persons interested using GIS in professional settings.

### ***Students will be able to***

1. Use a variety of geographic methods to identify and describe specific locations
2. Compare various methods used by computers to store spatial data
3. Explain the differences between raster & vector data, compare and contrast appropriate applications
4. Analyze projection applications and choose appropriate projections
5. Compare and contrast various data capture processes
6. Analyze methods used to create data bases
7. Identify causes of problems occurring in data capture and resolve problems
8. Compare analytical methods, tools and symbology used in ArcGIS
9. Analyze appropriate applications for statistical processes
10. Create metadata using national standards
11. Design a database for use in a GIS Project
12. Analyze issues in cartographic design and map presentation
13. Design, develop, prepare present and evaluate GIS projects using ArcGIS software

***Grading Breakdown***

- Participation and completion of exercises: 100 pts
- Quizzes: 40 pts
- Resume Assignment: 10 pts
- Midterm 1: 50 pts
- Midterm 2: 50 pts
- Final project: 150 pts

(A = 90-100%; B = 80-89%; C = 70-79%; D = 60-69%; F = 0-59%)

***Policies***

1. Appropriate college behavior is expected. If you disrupt those around you with personal conversations during lectures you will be asked to leave. Please respect others in the class.
2. Attendance is expected for every class session. Come to class on time prepared to participate. Class ends at 10:05pm.
3. Assigned readings must be completed prior to each class. Students should plan on spending at least one to three hours outside of class for every hour of lecture reading & reviewing assigned materials.
4. The prerequisites and advisories are important! I will expect college level reading, writing, and thinking throughout the class. You will also need a working knowledge of computers.
5. The in class portions of exams can only be taken on the scheduled day. No make-ups will be given.
6. Late work will be docked 20% and can only be turned in within one week of the due date. The practical portions of the midterm cannot be made up under any circumstances.
7. Students are expected to adhere to all standards of academic integrity. In particular, failure to submit independent work (i.e. plagiarism or cheating on tests) can be grounds for severe sanction including expulsion from the college. See the AVC College Catalog or Student Handbook for more information on the definition and consequences of plagiarism.
8. You must drop the class if you indeed intend to drop it. With the exception of missing the first week, I will not drop for you. You will receive an "F" if you simply stop showing up and fail to successfully complete any assignments or exams.
9. If you have a legally protected disability under the Americans with Disabilities Act (ADA) or California discrimination law, and you believe you need reasonable accommodation to participate fully in this class, please make an appointment to see me during my private office hours to discuss your need.

***SLOs***

The Student Learning Outcomes (SLOs) defined for Geography courses can be found on the AVC website at:

<http://www.avc.edu/administration/organizations/slo/msslos.html#geography>