# Geography 85 - Applications of GeoSpatial Technologies
## Outline of Units

This document is very important. Please print this outline along with the schedule. Note all assignments are 10 points (except GIS Case Study that's worth 20 points) adding up to a total of 100 points.

- Five (5) assignments and two (2) quizzes are all worth 10 points each; Before you start a quiz, make sure that you have done *all* the reading because they are timed quizzes found on Canvas!
- For all assignments, you will generally have about 2 days to complete them because of the condensed 3 week schedule.
- Assignment #3 is optional, but have a look at it because Quiz 1 refers to base maps.

**Outline of Units:**

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| Unit 1 | Lecture 1 | Quick Orientation - Readings found on website http://geography.sierracollege.edu/booth/GIS/Geog85/Geog85_readings.htm |
| | Participation | Introduce yourself via the Discussions (post on Canvas) |
| Unit 2 | Lecture 2 | *Introducing GIS* (narrative to go along with PowerPoint) (all lectures found on website) |
| | Assn. #1 | *Finding GIS Terms* assignment (email directly to me) |
| | Assn. #2 | *Annotated Bibliography* assignment (post on Canvas) |
| Unit 3 | Lecture 3a | *A Watershed Analysis Overview* -- beginning a GIS case study about watersheds and how to get GIS layers |
| | Lecture 3b | *Introduction to Base Maps* -- understanding base maps and their common GIS layers |
| | Lecture 3c | *Watershed Analysis -- Base Map Layers,* a look at the Dry Creek Watershed base map layers |
| | Assn. #3 (optional - no pts.) | *Understanding Base Maps* assignment (Optional - but very useful to examine because Quiz 1 refers to base maps.) |
| | Quiz 1 | *Base Maps -- on-line assessment* (make sure you're caught up - found on Canvas) |

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| Unit 4 | Lecture 4a | *Putting Together a GIS for the Dry Creek Conservancy - Part I* |
| | Lecture 4b | *Primer on Dry Creek Watershed* - a look at major goals and challenges of Secret Ravine |
| | Lecture 4c | *Putting Together a GIS for the Dry Creek Conservancy - Part II* |
| | Lecture 4d | *Dry Creek Thematic Layers* - a partial survey of current thematic layers |
| | Assn. #4 | *GIS Case Study Presentation*<br>(post on Canvas in pdf format so all can read) |
| Unit 5 | Lecture 5 | *Intro. to Remote Sensing* - just the basics<br>Read Remote Sensing articles (see Web Links) |
| | Assn. #5 | *Remote Sensing Case Study Summary* assignment<br>(post on Canvas) |
| Unit 6 | Lecture 6a | *Intro. to Global Positioning System - Part I* - introduction and how it works |
| | Lecture 6b | Intro. to *Global Positioning System - Part II* - creating a data dictionary |
| | Assn. #6 | *Global Positioning System* case study assignment<br>(post on Canvas) |
| | Quiz 2 | *Remote Sensing and GPS -- final on-line assessment*<br>(make sure you're caught up - found on Canvas) |