

Introduction to GIS, GEO 2150

Instructor: Dr. Martin McClinton
Office: Palm Bay Campus Building 2 Room 156P
Phone: (321) 433 5216
Office Hours: Posted
Course Prerequisite: Any computer class (it is your responsibility to make sure that you have the prerequisite knowledge: if you are not sure see me).
Required Text: ESRI, "Getting to Know ArcGIS" by Tim Ormsby. Make sure that you get the book for ArcGIS 8.3 rather than ArcGIS 9.0
Required Software: ArcGIS 8. Note a trail version of the software comes with the purchase of a NEW copy of the textbook. It *only* runs on Windows NT, 2000 and XP (and XP can have some problems, but they are not insurmountable).
E-mail: mcclintonm@brevardcc.edu
Blackboard Page: <http://brevardcc.blackboard.com/>

Course Description: A detailed course in geographic information systems (GIS) and accompanying laboratory session. The course will cover all aspects of GIS including data collection, preprocessing, data management and data analysis as well as the applications of these systems.

Course Objectives: This course is designed to acquaint students with the history, operation and applications of geographic information systems.

Lecture: I will take attendance at each and every session and attendance will be a consideration in cases of marginal grades. Note: part of your grade involves completing lab exercises!

Exams and Grading:

Quizzes	10%
ESRI Course	15%
Discussion Board	15%
Article Report	10%
ArcView Exercises	30%
Final	20%

90% and above	A
80-89%	B
70-79%	C
60-69%	D
< 60%	F

On-Line Quizzes Weekly quizzes cover topics from both the PowerPoint and the book Getting to Know ArcGIS. Quizzes need to be completed by the due date. They will not be reactivated

Discussion Board: You must post the required number of messages on the appropriate Discussion Boards during the semester.

Articles Report: You will be asked to post a PowerPoint Presentation or typed essay on any application of GIS. Application of GIS are described in magazines such as GeoSpatial Solutions available on line (<http://www.geospatial-online.com/geospatialolutions/>) as well as in the Palm Bay library.

ArcView Exercises: These are based on the chapters that you complete in the course textbook, Getting to Know ArcGIS and the ESRI Virtual Campus's Course Exercises. It is important that you complete the assigned chapters and ESRI Course Modules before you attempt the exercises. Exercises handed in late will be assessed at a reduced rate.

Final: The final will cover topics from the discussion board, the PowerPoint presentation and ArcGIS software.

"I" Grades: An incomplete grade will be given only in extreme cases.

Attendance Policy: students **may** be withdrawn from this course if they are absent for more than 15% of the total time. This means if you miss two consecutive class/ do not post any work on-line for two consecutive weeks without notifying me you **may** be withdrawn *by the college*. Please note that I do not withdraw student: you must fill out the paperwork if you want to withdraw from the class.

Open Lab: ArcView is available on selected computers in the Palm Bay Open Computer Lab (PB-002 235).

Academic Dishonesty: Cheating will result in a grade of zero for a given paper/exam and may lead to removal from the class.

Service-Learning Option

What? As a student enrolled in GIS classes, you may earn extra credit by participating in BCC's Service-Learning program.

How? You must register through the Center for Service-Learning on one of BCC campuses (on the Palm Bay campus the office is located in Building 1, Room 156N; other offices are available on other campuses) no later than the 3rd week of class. You must complete a minimum of twenty service hours as volunteer for Oasis (a Not for profit organization located on the Palm bay campus of BCC) or St. John's Water Management District or Brevard County's Natural Resources department (ask me if you are planning to work with other departments/organizations including those outside of Brevard County).

- The contact for Oasis is Singin Smith, pager 690 0471
- The contact for St. John's volunteer work is Carole McCauley, Brevard County WAV coordinator, brevardwav@yahoo.com, BUT YOU NEED TO REGISTER WITH THE OFFICE FOR SERVICE LEARNING IN ADDITION TO TALKING TO CAROLE.

Requirements include keeping a short journal describing your experiences. There should be an entry in your journal for each service day. In addition, at the end of the term an essay describing how the service experience helped you grow both academically and personally must be submitted. The essay must be 1 - pages typed, grammatically correct and handed in no later than the last day of class.

Why? Successful participation in this program will add 5% on to your final score (e.g. if your score averages to 78%, then you will receive $78 + 5 = 83\%$).

Week	Topic	Getting To Know ArcGIS 8.3	Activity*	Due Date
1.	Intro to GIS	Chapter 3	Read Chapters 1 and 2	1/17 [†]
2.	Type of GIS 1	Chapter 4	Exercise 1	1/24
3.	Type of GIS 2	Chapter 5 and 6		1/31
4.	Capabilities 1	Chapter 7	Exercise 2	2/7
5.	Capabilities 2	Chapter 8	Exercise 3	2/14
6.	Database	Chapter 9	Exercise 4	2/21
7.	Maps 1 and 2	Chapter 10		2/28
8.	Maps 3	Chapter 11	Exercise 5	3/7
9.	Maps 4	Chapter 12	Exercise 6	3/14
10.	Maps 5	Chapter 13	Exercise 6	3/21
11.	Maps 6	Chapter 14 and 15	Exercise 7	4/4
	Spring Break			
12.	Making Maps	Chapter 16 and 17	Exercise 8	4/11
13.	Primary Data 1	Chapter 18 and 19	Exercise 9	4/18
14.	Primary Data 2		Exercise 10	4/25
15.	Secondary Data		Final Project	
16.	Review		Final Project	5/9
17.			Final	5/11

[†]Quiz 1 due Friday 14th January

* ArcView software required: available in BCC Palm Bay open lab, PB-002 235.

Note: Last day to drop with refund: January 14th

Last day to withdraw from classes with a grade "W": March 24th