

COURSE IMPLEMENTATION DATE: [January 2001]
 COURSE REVISED IMPLEMENTATION DATE: []
 COURSE TO BE REVIEWED DATE: [January 2005]
 (Four years after implementation date)

OFFICIAL COURSE OUTLINE INFORMATION

Students are advised to keep course outlines in personal files for future use.

Shaded headings are subject to change at the discretion of the department and material will vary
 - see course syllabus available from instructor

FACULTY/DEPARTMENT: **GEOGRAPHY DEPARTMENT**

GEOG 253		4
COURSE NAME/NUMBER	FORMER COURSE NUMBER	UCFV CREDITS
INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS		
COURSE DESCRIPTIVE TITLE		

CALENDAR DESCRIPTION:

A geographic information system is defined to be a configuration of system hardware and software that captures, stores, analyzes and displays geographic information. The focus of this course is on the theory and practice of GIS as a tool in geographical analysis and data management. Students will develop competency in the operation of GIS software in a computer lab setting.

PREREQUISITES: Any first-year Geography course.

COREQUISITES: None

SYNONYMOUS COURSE(S)

(a) Replaces: _____ N/A
 _____ (Course #)
 (b) Cannot take _____ N/A for further credit
 _____ (Course #)

SERVICE COURSE TO:

 (Department / Program)

 (Department / Program)

TOTAL HOURS PER TERM: 60

STRUCTURE OF HOURS:

Lectures: 22.5 hrs
 Seminar: _____ hrs
 Laboratory: 37.5 hrs
 Field Experience: _____ hrs
 Student Directed Learning: _____ hrs
 Other (Specify): _____ hrs

TRAINING DAY-BASED INSTRUCTION

LENGTH OF COURSE: _____
 HOURS PER DAY: _____

MAXIMUM ENROLMENT: 25

EXPECTED FREQUENCY OF COURSE OFFERING: At least once every academic year

WILL TRANSFER CREDIT BE REQUESTED? YES X NO _____

TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE: YES _____ NO X

AUTHORIZATION SIGNATURES:

Course designer(s): _____	Chairperson: _____ (Curriculum Committee)
Department Head: _____ John Belec	Dean: _____ J. D. Tunstall
PAC Approval in Principle Date: _____	PAC Final Approval Date: <u>November 24, 1999</u>

GEOG 253

 COURSE NAME / NUMBER

LEARNING OBJECTIVES / GOALS / OUTCOMES/ LEARNING OUTCOMES:

1. Identify the role and usefulness of GIS as a tool in geographical analysis and data management.
2. Understand the theoretical base of GIS, i.e., the methodology of representing and managing map features.
3. Develop competency in the operation of GIS software in a computer lab setting.

METHODS:

Course material will be presented in lecture and computer lab.

PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

Credit can be awarded for this course through PLAR YES X NO

METHODS OF OBTAINING PLAR:

Transfer or portfolio evaluation.

TEXTBOOKS, REFERENCES, MATERIALS:

Environmental Systems Research Institute, (1998) Getting to now ArcView GIS
 Keith C. Clarke (1997) Getting Started with Geographical Information Systems (Prentice-Hall)

SUPPLIES / MATERIALS:**STUDENT EVALUATION:**

Lab assignments and projects	40-60%
Exams	40-60%

COURSE CONTENT:

1. The origins and definitions of GIS.
2. Uses (and abuses) of GIS in geographical problem-solving.
3. GIS and cartography: cartographic fundamentals.
4. Theory and methodology of GIS: an overview of concepts and terminology.
5. Characteristics of geographic data; sources of data for GIS.
6. Attribute data management.
7. Mapping socio-economic data.
8. Mapping environmental and natural resource data.
9. Spatial data models.
10. Geocoding.
11. Social implications of GIS: GIS and the future of Geography.