UNIVERSITY OF THE FRASER VALLEY

OFFICIAL UNDERGRADUATE COURSE OUTLINE (page 1)

COURSE IMPLEMENTATION DATE: September 2009
COURSE REVISED IMPLEMENTATION DATE:
COURSE TO BE REVIEWED: November 2013
(four years after UPAC approval) *(month, year)*

OFFICIAL UNDERGRADUATE 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 – see course syllabus available from instructor

GEOG 250	Geography	4
COURSE NAME/NUMBER	FACULTY/DEPARTMENT	UCFV CREDITS

Introduction to Geographic Techniques
COURSE DESCRIPTIVE TITLE

CALENDAR DESCRIPTION:

This course provides an introduction to various techniques that are integral to understanding and analyzing geographic information. Students will be introduced to issues of map projections, scale and interpretation, surveying, aerial photograph interpretation, thematic mapping, data analysis, and digital cartography. Field trips outside of class time may be required.

Note: Students may not take GEOG 250 for further credit if they have previously taken GEOG 251.

PREREQUISITES: **None**
COREQUISITES:
PRE or COREQUISITES:

SYNONYMOUS COURSE(S):
(a) Replaces:
(b) Cross-listed with:
(c) Cannot take: **GEOG 251** for further credit.

SERVICE COURSE TO: *(department/program)*

TOTAL HOURS PER TERM: 75

STRUCTURE OF HOURS:

Lectures:	40	Hrs
Seminar:		Hrs
Laboratory:	30	Hrs
Field experience:	5	Hrs
Student directed learning:		Hrs
Other (specify):		Hrs

TRAINING DAY-BASED INSTRUCTION:
Length of course:
Hours per day:

OTHER:
Maximum enrolment: **25**
Expected frequency of course offerings: Once per year
(every semester, annually, every other year, etc.)

WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only)	☒ Yes	☐ No
WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department)	☐ Yes	☐ No
TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE:	☐ Yes	☒ No

Course designer(s):	**Claire Beaney**		
Department Head:	**Ken Brealey**	Date approved:	**Feb. 15, 2008**
Supporting area consultation (UPACA1)		Date of meeting:	**Feb. 22, 2008**
Curriculum Committee chair:	**Moira Gutteridge-Kloster**	Date approved:	**Mar. 14, 2008**
Dean/Associate VP:	**Eric Davis**	Date approved:	**Mar. 18, 2008**
Undergraduate Program Advisory Committee (UPAC) approval		Date of meeting:	**November 21, 2008**

LEARNING OUTCOMES:

Upon successful completion of this course, students will be able to:

1. Use geographic coordinate systems to locate places around the world;
2. Construct maps using map projection techniques and be able to describe the various types of maps used in geography;
3. Interpret and visualize a variety of geographic information (maps, aerial photographs, geographic data) using standard practices;
4. Collect, process, and map geographic information;
5. Produce visual geographic media and general graphics using commercial and widely available graphics software (e.g., Adobe Illustrator).

METHODS: *(Guest lecturers, presentations, online instruction, field trips, etc.)*

Course material will be presented in lectures and labs with data collection in the field.

METHODS OF OBTAINING PRIOR LEARNING ASSESSMENT RECOGNITION (PLAR):

☒ Examination(s) ☒ Portfolio assessment ☐ Interview(s)

☐ Other (specify):

☐ PLAR cannot be awarded for this course for the following reason(s):

TEXTBOOKS, REFERENCES, MATERIALS:

[Textbook selection varies by instructor. An example of texts for this course might be:]

Instructional manual provided by the instructor.

SUPPLIES / MATERIALS:

Students will require basic lab supplies including graph paper, tracing paper, calculator, and mapping pens (all available in the UCFV Bookstore).

STUDENT EVALUATION:

[An example of student evaluation for this course might be:]

Practical lab exercises	50%
Mid-term exam	25%
Final exam	25%

COURSE CONTENT:

[Course content varies by instructor. An example of course content might be:]

Lecture topics (to be covered in 13 weeks):
Geography and maps – map types, projections, scale
Finding places in space – coordinate systems (e.g., latitude/longitude, UTM, Google Earth)
Aerial photograph interpretation
Surveying geographical areas – compass surveys, GPS surveys, leveling
Data analysis using Microsoft Excel
Thematic mapping
Digital cartographic principles and techniques

Lab topics:
Map interpretation (2 labs)
Aerial photograph interpretation (1 lab)
Surveying (1 lab)
Data analysis (1 lab)
Digital cartography (3 labs including thematic mapping)