

GEOGRAPHY 210
MAP AND AIR PHOTO INTERPRETATION
Course Outline, Fall 2010

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COURSE DESCRIPTION:

This course is designed to introduce students to the practical skills of map use and aerial photography interpretation. The theory of map construction and the conventions of map design will be discussed in class; the principles of map symbol interpretation will be introduced and practiced in a laboratory setting. Overhead and oblique aerial photographs will be viewed, stereoscopically where appropriate, and students will learn basic feature identification using these visual images. The mechanics and constraints of this data collection technique will be briefly explored and the conventions of presentation will also be discussed.

LEARNING OPPORTUNITIES:

Lectures: There will be two-and-a-half hours of lecture a week, normally on Tuesdays. The blackboard will be heavily utilized and overheads and images will augment the traditional lecture style.

Labs: There are thirteen labs in the course. Each lab contains exercises to familiarize students with the tools and techniques of map and air photo interpretation. A variety of different map types will be used and a full range of natural and social features will be profiled in the laboratory assignments. Attendance during lab periods is mandatory. In the case of illness, the instructor must be contacted prior to the class time and an alternate arrangement must be made; otherwise, a mark of zero will be assigned. Assignment due dates will be determined in class and late labs will not be accepted.

Exams: There will be three exams during the term. The first will be on **Tuesday, February 8th**, the second will be on **Tuesday, March 22nd**, and the third will be on **Thursday, April 14th**. All three exams will offer a selection of short-answer, multiple-choice, and skill-based questions.

EVALUATION:

Test #1	20%
Test #2	20%
Test #3	20%
Lab Exercises	<u>40%</u>
	100%

TEXTBOOK:

Map Use and Analysis by John Campbell, McGraw Hill Publishing - 4th Edition, 2001.

*The purchase of this textbook is **OPTIONAL** for this course and requires you to submit and order request with the bookstore.*

GRADING:

The standard grading scale of the Division of Arts and Science will be used for this course.

A+	>90%	B-	70-72%
A	85-89%	C+	65-69%
A-	80-84%	C	60-64%
B+	77-79%	D	50-59%
B	73-76%	F	<50%

COURSE SCHEDULE

schedule is subject to change

<u>Week of:</u>	<u>Tuesday Topic</u>	<u>Thursday Topic</u>
Jan 10	Course Introduction	Lab 1 – Mental maps
Jan 17	Map Types and Elements	Lab 2 – Map Types
Jan 24	Mapping Conventions	Lab 3 – Topographic Maps
Jan 31	Mapping Conventions	Lab 4 – UTM
Feb 7	Test #1	Lab 5 – Compass & Pace
Feb 14	GPS	Lab 6 – GPS
Feb 21	Map Projection Lab 7 – Geocaching	<i>Reading Break</i>
Feb 28	Ground Surveying	Lab 8 – Traverse - Horizontal
Mar 7	Vertical Surveying	Lab 9 – Traverse - Vertical
Mar 14	Mapping	Lab 10 – Traverse - Mapping
Mar 21	Test #2	Lab 11 – Air Photo #1
Mar 28	Air Photo History	Lab 12 – Air Photo #2
Apr 4	Photogrammetry	Lab 13 – Air Photo #3
Apr 11	Review Class	Test #3