

**GEOGRAPHY 210**  
**MAP AND AIRPHOTO INTERPRETATION**  
Course Outline, Winter, 2005

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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, in the lab 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. The blackboard will be heavily utilized and overheads and slides will augment the traditional lecture style.

Labs: There are ten 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.

Midterm Exam: One midterm exam will be given during the term. It will be held on Monday, February 21 and will be a selection of short-answer, multiple-choice, and skill-based questions.

Final Exam: There will be a three-hour final exam during Exam Week. This exam will be comprehensive, requiring students to demonstrate knowledge of the important concepts and essential skills presented and acquired during the semester.

**EVALUATION:**

Midterm Exam	20%
Lab Exercises	50%
Final Exam	<u>30%</u>
	100%

TEXTBOOK:

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

As this is the fifth term that Geography 210 has been offered, there should be lots of second-hand copies of this textbook available. I have also requested that a copy be placed on reserve in the library for your use if you are unable to afford the cost of this text.

GRADING:

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

A+	>95%	B-	70-74%
A	90-94%	C+	65-69%
A-	85-89%	C	60-64%
B+	80-84%	D	50-59%
B	75-79%	F	<50%

COURSE SCHEDULE  
 \*schedule is subject to change\*

<u>Week of:</u>	<u>Monday Lecture Topic</u>	<u>Wednesday Lab Topic</u>
Jan 10	Introduction	Mental Maps
Jan 17	Map Types and Elements	Real Maps
Jan 24	Mapping Processes	Real Maps
Jan 31	Map Scales & Projections	Coordinate Systems
Feb 7	Route Selection & Navigation	Geodetic Controls
Feb 14	Review Class	<i>No Lab</i>
Feb 21	<b>MIDTERM</b>	Traversing -Vertical Control
Feb 28	Traverse Mapping & Correction	Traversing - Horizontal Control
Mar 7	Air Photo History	Traversing - Mapping
Mar 14	Photogrammetry	Air Photo Interpretation #1
Mar 21	Spectral Signatures & Interpretation	Air Photo Interpretation #2
Mar 28	<i>Easter</i>	<i>No Lab</i>
Apr 4	Remote Sensing	Satellite Imagery
Apr 11	Review Class	
Exam Week	FINAL EXAM	