

## **Geography 210**

### **Map and Air Photo Interpretation**

Course Outline, Winter 2004

Lecture: Monday, 2:30 – 4:50, F338

Lab: Section 1a - Wednesday, 9:30 – 11:50, F338

Section 1b - Wednesday, 2:30 – 4:50, F338

#### **Instructor**

David Bean

office: Ewing 300

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office hours: Tues. 9:30am – 11:30am, and Fri. 9:30 am – 11:30am

\*meetings can be scheduled outside these times by appointment

website: [www.camosun.bc.ca/schools/artsci/socsci/geo/david\\_bean.php](http://www.camosun.bc.ca/schools/artsci/socsci/geo/david_bean.php)

#### **Course Description**

This course is intended to acquaint students with some of the fundamental components and processes of reading, analyzing and interpreting map products and aerial photographs. Hands-on laboratory exercises will allow students to put the theory learned in lectures to practical use.

#### **Textbook**

John Campbell, 2001, Map Use and Analysis – 4<sup>th</sup> Edition. This text is available at the Camosun College bookstore. Some in-class handouts will be provided to supplement the textbook.

#### **Evaluation**

The final grade for the course will be based on two tests, nine laboratory assignments and a survey report. All tests and laboratory exercises must be written at the scheduled time unless a verifiable emergency existed to prevent attendance. Labs must be handed in on time unless a verifiable emergency existed to prevent submission. Exams and laboratory exercises not written on time will receive a mark of zero. Please consult the College Calendar, which outlines the College policies regarding exams and tests.

Lab Exercises 30%

Survey Report 20%

Mid-term Exam 25%

Final Exam 25%

100%

#### **Grading**

The standard grading scale of the School of Arts and Science will be used in this course.

|         |        |        |        |        |        |        |        |        |       |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| A+      | A      | A-     | B+     | B      | B-     | C+     | C      | D      | F     |
| 95-100% | 90-95% | 85-90% | 80-85% | 75-80% | 70-75% | 65-70% | 60-65% | 50-60% | 0-50% |

#### **Labs**

There are nine labs in the course plus a surveying report. Each lab contains exercises to reinforce the concepts that were introduced by the preceding lecture. Attendance during the lab period is required to obtain a mark for the specific assignment. Documented proof of illness or emergency must be provided or a mark of zero will be assigned for the lab. Lab assignments will

be due at the end of the lab period and the surveying report will be due two weeks after the field work is completed (March 17).

**Lecture, Readings, and Lab Schedule**

| <b>Date</b>                   |                                                       | <b>Date</b> |                                     |
|-------------------------------|-------------------------------------------------------|-------------|-------------------------------------|
| Jan 5                         | Introduction                                          | Jan 7       | Mapping the Environment (p. 1 - 18) |
| Jan 12                        | Map making and geographic data (p. 19 - 47)           | Jan 14      | Lab                                 |
| Jan 19                        | Map elements (p. 48 - 86)                             | Jan 21      | Lab                                 |
| Jan 26                        | Measurements from maps (p. 87 - 97, 162 - 195)        | Jan 28      | Lab                                 |
| Feb 2                         | Map reading and interpretation I (p. 98 - 129)        | Feb 4       | Lab                                 |
| Feb 9                         | Map reading and interpretation II (p. 130 - 161)      | Feb 11      | Lab                                 |
| Feb 16                        | Review Class                                          | Feb 18      | <b>MID-TERM EXAM</b>                |
| Feb 23                        | Surveying I                                           | Feb 25      | Lab: surveying I (outdoors)         |
| Mar 1                         | Surveying II                                          | Mar 3       | Lab: surveying II (outdoors)        |
| Mar 8                         | Remote sensing and spectral signatures (p. 253 - 268) | Mar 10      | Lab                                 |
| Mar 15                        | Airphoto technology and methods (269 - 278)           | Mar 17      | Lab                                 |
| Mar 22                        | Airphoto interpretation I                             | Mar 24      | Lab                                 |
| Mar 29                        | Airphoto interpretation II                            | Mar 31      | Lab                                 |
| Apr 5                         | Classifying and interpreting remotely sensed data     | Mar 7       | Review Class                        |
| <b>Exam Week – Final Exam</b> |                                                       |             |                                     |