



# NR 91 - Orienteering 50362

## Reedley College – Spring 2010

### Lecture 1:00-1:50 Thursday

### Room FEM 7

**Instructor:** Jason Pinkerton  
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Office Hours: W - 1:00-3:00 and TH - 12:00-1:00 other times by appointment  
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#### **Course Description:**

This course will introduce students to map and compass use, coordinate systems, map symbols, topographic maps, GPS use, and orienteering. Students will gain hands-on experience with GPS and map and compass mountain navigation.

#### **Course Outcomes:**

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

- A. Use a Global Positioning System to navigate and find a location on a map.
- B. Use a topographic map to plan travel routes.
- C. Determine unknown location in the field based on topographic features, triangulation and topographic maps.
- D. Navigate through rough terrain to arrive at a chosen point on the map.

#### **Course Objectives:**

In the process of completing this course, students will:

- A. Identify and define map symbols.
- B. Calculate distance and elevation gain on a topographic map.
- C. Use a GPS to locate a point on a map.
- D. Correctly use a compass to traverse land according to a map.
- E. Orient a map to magnetic north using declination.
- F. Triangulate using a compass and land features.
- G. Identify terrain structures using topographic lines.
- H. Use coordinates to identify a location on a map.
- I. Explain the difference between UTM's and Lat/Long systems.

#### **Textbook:**

1. Wells, D. 2005. Wilderness navigation, National outdoor leadership school (NOLS). Stackpole books, Mechanicsburg, PA. **(Recommended) (Available online or at REI)**

### ***Laboratory Activities:***

There will be a few laboratory excursions taken during the semester. These trips will generally occur during the scheduled class time. However, we may return to campus after 1:50 pm on occasion. If you are unable to attend a class period, you will still be responsible for the material covered and **may** be required to complete an alternative assignment. Failure to do so will result in a zero for the particular lab.

We will have one Saturday (REQUIRED) laboratory field trip scheduled for February 20<sup>th</sup>. This will be an all day 8:00am to 5:50pm class. The in-field instruction will take place at an offsite location to be determined, weather permitting. Additionally, we will have 6 hours of arranged time outside of the scheduled lecture. We will most likely meet at an off site location (e.g. REI) on a date to be determined.

Always come to lab prepared for outside activities. Prepared is defined as having sturdy hiking shoes or boot, long pants, water, food, and warm (appropriate) clothing.

### ***Essential Information:***

- It is your responsibility to stay informed on any changes to assignment due dates, readings, etc. Missing a class doesn't excuse you from this responsibility (i.e. if a due date for an assignment changes, new assignments are given, etc.). This means you should ask a trustworthy classmate for notes if you are absent. Being absent is not an excuse for late work, late assignments, or just not knowing what is happening.
- It is the student's responsibility to officially withdraw from this and/or any course. Failure to do so may result in a "F" grade being awarded. As an instructor, I have the option to drop students who miss more than two class periods.
- Cheating and/or plagiarism will not be tolerated. No credit will be given for an assignment if in the opinion of the instructor the individual has cheated.
- "If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact me as soon as possible."
- Please turn cellular phones and pagers off during class time. Sunflower seeds and all tobacco products are **NOT** permitted.

### ***Participation and Grading Policy:***

Grading for this course is based on the sum of one exam, a comprehensive final, lab assignments/reports, and unannounced quizzes. Both lecture and laboratory material will be covered on midterm exams and quizzes. No early or makeup exams or quizzes will be given, unless previously (one week) authorized by the instructor. All late assignments will be deducted 15% and must be turned in within one week of due date to receive credit. Individual participation will be considered when assigning your final grade. Final grades may be curved based on a percentile of the highest point total in the class. Grades will be assigned based on a straight percentage system according to the following scale:

<b>Course Grade</b>	<b>Cumulative Percent</b>	<b>Breakdown of Grades</b>	<b>Percentage</b>
A	90-100	Unannounced Quizzes	10%
B	80-89	Participation	40%
C	70-79	Exam	30%
D	60-69	Field Exam	30%
F	<59		
		<b>TOTAL</b>	<b>100%</b>

***LAST DAY TO DROP THE COURSE without a “W” January 29<sup>th</sup>***

**Tentative Schedule**

<b><i>Date</i></b>	<b><i>Lecture Topic</i></b>
1/14	Introduction, Equipment
1/21	Map Reading and Terrain Association
1/28	Using a Compass
2/4	Planning and Following a Route
2/11	Lost in the Wilderness
2/18	Coordinate Systems
2/20	<b>Saturday off-site laboratory site to be determined (Mandatory)</b>
2/25	Using GPS Receivers
3/4	Digital Mapping
3/11	Exam