

Wilderness Navigation

Course Outline and Requirements

Class Schedule:

Friday January 5, 6:00pm – 9:15pm
Saturday January 6, 8:00am – 5:40pm
Sunday January 7, 8:00am – 5:40pm
(Class does not meet the weekend in between)
Friday January 19, 6:00pm – 10:15pm*
Saturday January 20, 9:00am* – 5:40pm
Sunday January 21, 8:00am – 5:40pm

* Note these two times are an hour different than previously published.
This is to all time for some night navigation problems.

Required Text:

1. Wilderness Navigation; Finding Your Way Using Map, Compass, Altimeter & GPS; 2nd edition.
Burns & Burns. The Mountaineers. 2004. ISBN 0-89886-953-6

Prerequisite Knowledge:

1. Knowledge of basic math and geometry.

Course Objectives: At the successful completion of this course you will be able to:

1. Use topographic maps in wilderness navigation situations
2. Plan wilderness travel routes using various types of maps.
3. Use various tools and techniques to determine position in a wilderness setting.
4. Understand and employ techniques for wilderness navigation with and without electronic devices.

Major Topics to be Covered:

1. The human navigation process
2. Types of maps
3. Map projections
4. Global Positioning System
5. Map Coordinate Systems
6. USGS topographic maps
7. Map scale
8. Topography

9. Using a compass
10. Measuring distance in the field
11. Route planning / route finding
12. Using an altimeter

Homework

There will be out-of class reading and problem solving assignments.

Attendance Requirements

You are expected to attend all classes and are required to participate in all field exercises. There are points awarded for attendance and participation.

Determination of the Final Grade

The top score in the class will be the benchmark at 100%. Grades will be determined as follows:

- A \geq 90% of the highest number points scored by an individual
- B \geq 80% but $<$ 90%
- C \geq 70% but $<$ 80%
- D \geq 60% but $<$ 70%
- F $<$ 60%

Thus if the top score in the class is 940 points and you receive 725 points your grade would be $725/940 = 77\% = C$. Conventional rounding of whole numbers will be used.

Quizzes may not be made up. Homework assignments are due at the beginning of class on or before due date.

Point Breakdown for course:

Classroom attendance and participation Δ	100 points
Quizzes	200 points
Homework assignments	100 points
Total score possible	400 points

Δ = Student must participate in entire class to receive credit

Instructor Information

Office Location: AAS-37 Classroom before and after class
 Phone Number: 650/529-9410 650/867-0170 Mobile
 E-mail: john@maptools.com
 Website: <http://maptools.com/pkmgmt024>
 Office Hours: 30 minutes before and after class

Recycling

All materials and handouts used in this class can be recycled. If there are materials you do not wish to retain you may return the materials and I will recycling or reuse them. There is a box for recycling drinking containers outside the building near the south wall of the classroom.

Special Accommodations

If you need special accommodation for a learning disability, please talk to me at your earliest convenience so that we can work together in accommodating your needs. If you are uncertain as to whether you need such accommodations, I recommend that you chat with me or visit the Disability and Educational Support Program for a consultation (no charge to students). All these conversations are confidential. West Valley College makes reasonable accommodations for persons with documented disabilities. College materials will be available in alternate formats (Braille, audio, electronic format, or large print) upon request. Please contact the Disability and Educational Support Program at (408) 741-2010 (voice) or (408) 741-2658 (TTY) for assistance.

Emergency Procedures

West Valley College is one of the safest campuses in California. However, earthquakes and other incidents could occur. The college has developed an emergency procedures plan. This document includes how to respond to emergencies that might occur on campus and in the classroom. A copy of the Plan is available to review from the Division Office or me. A condensed version in the form of a yellow colored flip chart is posted along with other emergency information on the bulletin board at the southeast corner of the classroom near the fire extinguisher and first aid kit.

I strongly urge each of you to have basic emergency supplies in your car and have a flashlight with you when you are on campus, especially at night.

EVACUATION: In the event of an evacuation, the emergency assembly area for this classroom is near the bus stop in Lot #3. Take all of your belongings with you. While we will try to evacuate together as a group, if you get separated we will regroup at our assembly area in lot #3. Do not leave campus or the assembly area unless instructed to do so by me or another responsible official (police, fire, etc.)

Important phone numbers and location of emergency supplies:

life threatening emergency - regular phones	911
life threatening emergency - campus phones	9-911
life threatening emergency - cellular phones	408/299-2311
student health services on campus	X4000 (741-4000)
safety escort	x2092 (741-2092)
accessible campus phone (my office)	x 2403 (741-2403)
public phone (located just outside the exit door next to the AAS division office)	408/741-9939
fire alarm	outside north <u>and</u> south door of AAS-37
fire extinguisher	inside south door of AAS-37
first aid kit	🍏 SE corner of AAS-37 near fire extinguisher 🍏 Division Office 🍏 Career Programs Office

Student and Instructor Responsibilities

Information is available in the College Catalogue.

Classroom Decorum

As a courtesy to your fellow students and me please switch your pagers and cell phones off or put them on non-audible (vibrate) mode. I don't allow hats or sunglasses to be worn inside the classroom. In the field, hats and sunglasses that protect your head, face, ears and eyes are okay and encouraged. If you smoke tobacco products only do so in safe locations and always downwind from me and other students. And collect your butts. Please do not smoke near the buildings as the ventilation system sucks in the smoke. Thanks.