Class Hours: 2.0
Credit Hours: 1.0
Laboratory Hours: 0.0
Date Revised: Spring 01

Catalog Course Description:

The introduction of skills, strategy, and instruction on using a topographical map and compass to navigate in wilderness terrain.

Entry Level Standards:

None

Prerequisites:

None

Textbook(s) and Other Reference Materials Basic to the Course:

Textbook:

Personal Equipment:
An instructor approved orienteering compass.

I. Week/Unit/Topic Basis:

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>Introduction; Maps; Map Symbols; Map Symbol Quiz</td>
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<td>2</td>
<td>Easy Map Reading; Contour Quiz</td>
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<tr>
<td>3</td>
<td>Anatomy of the Compass; Distance from the Map; Distance Quiz</td>
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<tr>
<td>4</td>
<td>Grid Coordinates; UTM (universal transverse mercator) Quiz</td>
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<tr>
<td>5</td>
<td>Navigation Basics; Grid Bearing Quiz</td>
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<tr>
<td>6</td>
<td>Tricks of the Trade; Final Exam</td>
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<tr>
<td>7</td>
<td>Field Exercises</td>
</tr>
<tr>
<td>8</td>
<td>Field Practicum in Cades Cove</td>
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<tr>
<td>9</td>
<td>Field Practicum in Cades Cove</td>
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</table>
II. Course Objectives*:

A. Interpret maps and map symbols. IV.1, III.2

B. Interpret and construct topographical maps. IV.1, III.2

C. Master the use of an orienteering compass. IV.1, III.2

D. Interpret distance from a 7.5’ series map. IV.1, III.2

E. Locate and analyze universal transverse mercator coordinates. IV.1, III.2

F. Analyze a field situation and be able to use a map and a compass to navigate from one position to another position. IV.1, II.3, III.2

*Roman numerals after course objectives reference goals of the university parallel program.

III. Instructional Processes*:

Students will:

1. Competently read and interpret the basic information found on the 7.5’ series topographic map. Communication Outcome

2. Use an orienteering compass with a high degree of accuracy. Problem Solving and Decision Making Outcome, Active Learning Strategy

3. Demonstrate the ability to use a map and a compass together. Problem Solving and Decision Making Outcome, Personal Development Outcome

4. Comprehend improvising techniques to employ during adverse conditions. Problem Solving and Decision Making Outcome, Transitional Strategy

5. Demonstrate techniques to accurately arrive at a given destination. Problem Solving and Decision Making Outcome

6. Work together in groups to reach consensus on field bearings and to travel through various terrains to arrive at a given destination. Problem Solving and Decision Making Outcome, Active Learning Strategy, Transitional Strategy

*Strategies and outcomes listed after instructional processes reference Pellissippi State’s goals for strengthening general education knowledge and skills, connecting coursework to experiences beyond the classroom, and encouraging students to take active and responsible roles in the educational process.
IV. Expectations for Student Performance*:

Upon successful completion of this course, the student should be able to:

1. Calculate elevation from a 7.5’ series map. A
2. Use an orienteering compass to calculate degree bearing, considering declination, on a 7.5’ series map from one position to another position. A, B, C, F
3. Calculate distance from one position to another position. A, B, D
4. Locate an object when given UTM (universal transverse mercator) coordinates. E
5. Be given an object and find the UTM coordinates with a high degree of accuracy. E
6. Find a given object or area in Cades Cove with a high degree of accuracy. A, B, C, D, F

*Letters after performance expectations reference the course objectives listed above.

V. Evaluation:

A. Testing Procedures: 60 points

60 possible points based on:
5 in-class quizzes worth 8 points each
20 point final exam

B. Laboratory Expectations:

N/A

C. Field Work: 30 points

The last nine hours of the course will be on a designated Saturday in Cades Cove for the field practicum.
30 possible points based on finding 6 destinations in Cades Cove worth 5 points each

D. Other Evaluation Methods: 10 points

10 point participation grade (After 2 absences 4 points will be subtracted from the final grade. Students with 4 or more absences will not pass this course.)

E. Grading Scale:

A 93 -100 points
B+ 92 - 88 points
B 87 - 83 points
C+ 82 - 78 points
C 77 - 73 points
D+ 72 - 68 points
D 67 - 62 points
F 61 below points

VI. Policies:

A. Attendance Policy:
Pellissippi State Technical Community College expects students to attend all scheduled instructional activities. As a minimum, students in all courses must be present for at least 75 percent of their scheduled class and laboratory meeting in order to receive credit for the course. Individual department/programs/disciplines, with the approval to the vice president to Academic and Student Affairs, may have requirements that are more stringent.

B. Injury Policy:

Students injured during class must inform the instructor immediately. An accident/incident report must be filed. This applies to all injuries no matter how minor.