

CENTER FOR INNOVATIVE TECHNOLOGIES
MASTER COURSE DOCUMENT

EVT 172 Environmental Mountain Ecology 2

Course Description: A continuation of EVT 171. Students participate in field experience that includes a trip to the mountainous regions of the western United States. Students pay for travel-related expenses.

Prerequisites(s): EVT 171

Corequisite(s): No corequisite

Lecture Hours: 1	Lab Hours: 6	Credit Hours: 3
Lab Fee: 0	Supplemental Fee: 0	Purpose:
<input type="checkbox"/> Transfer Assurance Guide Course (TAG)	<input type="checkbox"/> Transfer Module Course (TM)	
Course Format: Lec/Lab	Grading: A/B/C/D/F/I	
Delivery Method: <input type="checkbox"/> Web	<input type="checkbox"/> Hybrid	<input type="checkbox"/> Classroom
Semesters Offered: <input type="checkbox"/> Fall	<input type="checkbox"/> Spring	<input checked="" type="checkbox"/> Summer

Course Primary Text:

Title:	Edition:
Textbook: <u><i>From Grassland to Glacier</i></u>	
Author(s): Mutel and Emerick	
Publisher: Johnson Books	

Supplemental Materials:

Handouts

Course Outcomes:

1	1) To provide students firsthand experience in field sampling and testing techniques, data analysis and the interpretation of results
	2) To allow students to learn the value of team work and experiential learning in an unstructured atmosphere, as well as the importance of independent problem solving
	3) To raise awareness of the benefits as well as the environmental impacts of mining operations
	4) To present water management challenges faced in the western regions of the United States
	5) To raise awareness of environmental issues unique to mountain ecosystems and

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	propose solutions
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Course Topics:

Week 1	Study the Geology, River Ecology and Riparian Zone
Week 2	Ropes Course at Pingree Park studies – morning Half day hike; Begin vegetation studies- afternoon
Week 3	Continue with vegetation studies (aspen groves)
Week 4	Begin bird and mammal studies Continue vegetation studies (fire site)
Week 5	Air Studies, Wind Tunnel visit Visit Ft. Collins/Colorado State University
Week 6	Travel to Grand Lake via Mt Evans (view tundra; tundra hike) Travel to Grand Lake, CO Stay at Winding River Campground (in cabins)
Week 7	Tour Three Lakes Sanitation Districts WWTP - morning Attend presentation on water management issues in Colorado Visit/hike west side of Rocky Mountain National Park- afternoon Continue bird and mammal studies
Week 8	Follow Trail Ridge Road through Rocky Mountain National Park Perform Alpine and Subalpine studies Examine the Geology Hike to Bear Lake & Alberta Falls in Rocky Mountain National Park
Week 9	Perform Limnology and Soil Field Studies with HACH Company Representative in Rocky Mountain National Park near Sprague Lake in Estes Park then Bear Lake & Alberta Falls in RMNP Stay at Della Terra
Week 10	Continue with vegetation studies (north and south facing slopes)
Week 11	Tour Mining sites; visit climatology station at MRS
Week 12	Tour Mine Runoff Treatment Plant
Week 13	Mining History Museum
Week 14	Mining Site Tours

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Week 15	Presentations
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Methods of Evaluation/Assessment

X ☐ Formative: ☐ Summative

List assessment activities (e.g. quizzes, discussions, essays, research papers, debates, oral presentations, exams):

Paper
Presentation
Field exercises
discussions

Course Keeper: Dr. Ann Gunkel

Date Completed: 4/15/19