

SUPERVISED INTERNSHIP: NATIVE PLANT STEWARDSHIP & ETHNOBOTANY
ENST 396/ENST 590: Fall 2018

PFNAC 102 – T/TH 1:00pm-3:50pm (or as scheduled)
T 4:00-4:50pm (class-time)

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Internship:

Natural Areas of the University of Montana include over 650 acres of undeveloped land on Mt Sentinel and Fort Missoula. These lands are managed for specific natural area values including biodiversity of plants, preservation of wildlife habitat, availability for research and education areas, and recreational pursuits. Natural Areas of the University of Montana also include landscaped areas on campus such as the Ethnobotany Garden surrounding the Payne Family Native American Center.

Student interns will work on campus and on UM's Natural Areas. Students will learn about ecology and conservation of native plants and invasive species, landscaping with native plants, restoring natural areas, stewardship and management of natural areas and the ethnobotany of Native peoples.

This is a hands-on internship working outdoors with native plants and in UM's Natural Areas, combined with academic work. Students will meet weekly with instructors. Students will work for 6 hours per week (3 hours per credit), which will include class time, work time, public education and/or project time.

INTERNSHIP LEARNING OUTCOMES

By the end of the internship the student will be able to;

- 1) Identifying native and invasive plants of Montana and the region.
- 2) Improve intellectual skills of critically and efficiently reading, summarizing and analyzing scholarly and scientific works.
- 3) Improve communication skills, listening to others, and speaking publicly.

Communication

Communication is necessary and expected for this internship. Please check your UM email regularly for internship updates. We will also set up a group text-messages or group chat to schedule and discuss weekly/daily work activities.

Expectations & Types of Work

Students will work 6 hours per week, which will include class time, work time, public education and project time.

Class Time:

We will meet once per week to discuss schedule, plus hear about the botany of Native plants and/or ethnobotanical uses by Native peoples. We are schedule to meet Tuesdays at 4:00 to 4:50pm, or as scheduled.

Work Time:

We will be working primarily at the Ethnobotany Gardens at the Payne Center for Native American Studies, Mount Sentinel, Fort Missoula and other natural areas as assigned.

Ethnobotany Garden at PFNAC: Weeding, mulching, pruning. Helping to select appropriate new species to add to the garden (there is theory behind every good garden) and then procuring, transplanting and watering them. Maybe supervise other volunteers participating in these activities.

Mt Sentinel: Remove invasive species (knapweed and hound's tongue), spread native grass seeds. Maybe supervise other volunteers participating in these activities. Probably just 2-4 outings on Mt Sentinel. Possibly on one or two Saturdays if this is desirable for the group; we can invite other students from ENST 105 to join in the work since they all have to do 10 hours of community service.

Scheduling: The 6 hours per week of work is FLEXIBLE in terms of when it is to be completed and must be arranged and approved by the instructors. Interns will need to receive training on most tasks. We will pick 1-2 afternoons per week that accommodate everyone during the first four weeks for this training. Interns can work independently after that. Hopefully. Keep in mind that Winter Is Coming. Do not delay. Interns should not defer work hours until later in the semester.

Public Education:

We provide environmental education regarding about the Ethnobotany Garden to the campus and wider community, including at: Welcome Feast, American Indian Heritage Day, Indigenous Peoples Day and others. Interns will work with the instructors to set up an information table with native plants samples, Ethnobotany garden maps, discuss the importance of Native plants and provide tours. The Ethnobotany Garden has a website, which has been 100% created, written and maintain (with assistance from Spectral Fusion) by interns. We also have a Facebook page "UM's Ethnobotany Garden," please join and post photos or information for the public.

Project Time:

Some students work on separate projects with permission of the instructors.

Equipment

Students will work outside. Students should be prepared for the weather and wear appropriate clothing, wear close-toed shoes, bring gloves and be prepared to get dirty.

Required Readings

Marilyn Marler, "University of Montana Natural Area's Management Plan," (Spring 2015).

Recommended Readings

Any field guide , such as: Linda Kershaw. *Plants of the Rocky Mountains* (Lone Pine Field Guide), Lone Pine, 1998, or an on-line field guide, such as: fieldguide.mt.gov.

Attendance

Attendance is mandatory. "Students are expected to attend all class meetings and complete all assignments for courses in which they are enrolled. Instructors may excuse brief and occasional absences for reasons of illness, injury, family emergency, religious observance or participation in a University sponsored activity.... Instructors shall excuse absences for reasons of military service or mandatory public service." <http://www.umt.edu/catalog/acad/acadpolicy>.

Student Conduct Code

"Being a student at UM presupposes a commitment to the principles and policies embodied in the Code." http://life.umt.edu/vpsa/student_conduct.php.

Disability Student Services

Appropriate accommodations will be made by the University pursuant to the policies of the Disability Student Services. <http://life.umt.edu/dss>.

Cultural or Ceremonial Leave

"Cultural or ceremonial leave allows excused absences for cultural, religious, and ceremonial purposes to meet the student's customs and traditions or to participate in related activities. To receive an authorized absence for a cultural, religious or ceremonial event the student or their advisor (proxy) must submit a formal written request to the instructor."

<http://catalog.umt.edu/academics/policies-procedures/>

Grading:

Final Grade based on Attendance and Participation, 10 weeks @ 10 points, 100 points total.

Weekly Work Schedule (but be flexible as activities will change based on weather, etc.)

TUESDAY	THURSDAY
Week 1: Aug. 28/30/31 Introductions, Tour of Ethnobotany Garden, Scheduling Soil prep, Oval side of the fescue stand	Each week we will be in the Ethnobotany Garden, Mt. Sentinel or Ft. Missoula Plan for WelcomeFeast (Aug 31 11:30-1:30)
Week 2: Sept. 4/6 - Transplanting Roz Ethnobotany lecture #1 Transplanting Idaho fescue, collecting seeds	Each week we will be in the Ethnobotany Garden, Mt. Sentinel or Ft. Missoula
Week 3: Sept. 11/13 Roz Ethnobotany lecture #2 (Marilyn with visitors all week)	Each week we will be in the Ethnobotany Garden, Mt. Sentinel or Ft. Missoula
Week 4: Sept. 18/20 Invasive Plants - Madison Street Bridge & Ft Missoula Tour of Fort Missoula	Each week we will be in the Ethnobotany Garden, Mt. Sentinel or Ft. Missoula
Week 5: Sept. 25/ 27 Plan American Indian Heritage Day, Sept. 28.	Each week we will be in the Ethnobotany Garden, Mt. Sentinel or Ft. Missoula American Indian Heritage Day, Sept. 28.
Week 6: Oct. 2/4 Roz Ethnobotany lecture #3	Each week we will be in the Ethnobotany Garden, Mt. Sentinel or Ft. Missoula
Week 7: Oct. 9/Oct 11 Indigenous Peoples Day Roz Ethnobotany lecture #4,	Each week we will be in the Ethnobotany Garden, Mt. Sentinel or Ft. Missoula
Week 8: Oct. 16/18 Roz Ethnobotany lecture #5	Each week we will be in the Ethnobotany Garden, Mt. Sentinel or Ft. Missoula
Week 9: Oct. 23/25 Roz Ethnobotany lecture #6	Each week we will be in the Ethnobotany Garden, Mt. Sentinel or Ft. Missoula
Week 10: Oct. 30/Nov. 1 Work at M Trailhead	Work at M Trailhead
WRAP UP: Nov. 6/8	