

SUPERVISED INTERNSHIP: NATIVE PLANT STEWARDSHIP & ETHNOBOTANY

ENST 396/ENST 595: Fall 2017

PFNAC Firepit or 102 – M 4:00-4:50pm (and as scheduled)

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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 that 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 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 and an individual project. Students will meet weekly with instructors, plus work 4 to 6 hours per week on campus.

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.

Types of Work:

PFNAC Gardens: 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. Develop interpretative system for the garden (but maybe not install it).

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 101 to join in the work since they all have to do 10 hours of community service.

Tabling: There are several activities in the Fall – from Welcome Fest, American Indian heritage week, Indigenous Peoples Day and others where we provide environmental education regarding the garden.

Expectations:

Students must attend the weekly discussion group.

Your 4 to 6 hours per week of work is FLEXIBLE in terms of when it is to be completed, but you cannot defer this work until later in the semester. You need to receive training on most tasks, so we will pick 1-2 afternoons per week that accommodate everyone during the first four weeks, and then people can work independently after that. Hopefully.

Keep in mind that Winter Is Coming. Do not delay. If Marilyn is calling you to find out where you are, you are doing it wrong.

There won't be very much to do in the gardens in late fall, and the main activity for Mount Sentinel will be SEED SCATTERING, which we will schedule for the group.

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, Draft).

Optional Readings:

Check out the fieldguide.mt.gov to help with identification. Or any Rocky Mountain plant identification book with color photographs, such as Linda Kershaw's *Plants of the Rocky Mountain*, Lone Pine, 1998.

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>.

Weekly Work Schedule

We will meet each Monday at 4:00-4:50 at the firepit or in NAC 102, plus schedule another 4 to 6 hours of supervised work. We will be working primarily at the Native Plant Gardens at the Payne Center for Native American Studies, Mount Sentinel and other places as assigned.

Introduction Aug. 31 – Introduction, Tour and Schedules

Week 1	Sept. 4 (Labor Day)
Week 2	Sept. 11
Week 3	Sept. 18
Week 4	Sept. 19
Week 5	Sept. 25
Week 6	Oct. 2
Week 7	Oct. 9
Week 8	Oct. 16
Week 9	Oct. 23
Week 10	Oct. 30

Assignments

Attendance & Participation is mandatory. (10 points per week @ 10 weeks, 100 points total). Students will post an ongoing “field notes” on Moodle each week of the internship.

Grading:

Final Grade based on a percentage of Total Points (100).

Environmental Studies requirements for the major:

ENST 396 Supervised Internship: Ethnobotany – with adviser approval – can be substituted for either ENST 398 Internship Variable or ENST 396 Supervised Internship PEAS as an approved community service or internship experience.