2014
FISHERIES, WILDLIFE AND CONSERVATION BIOLOGY
AUGUST FIELD SESSION

University of Minnesota
College of Food, Agricultural and Natural Resource Sciences
Cloquet Forestry Center
175 University Road
Cloquet, MN 55720-9594

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http://www.forestry.umn.edu/Students/CloquetFieldSession/IntroductoryFieldSession/index.htm

Program Information:
James Forester, 612-626-6721, jdforest@umn.edu, 201 Green Hall
Ray Newman, 612-625-5704, mnewman@umn.edu, 120 Hodson Hall
Jason J. Husveth, jhusveth@ccesinc.com

Registration Information:
Tracene Marshall 612-625-0266 marsh318@umn.edu 10A Green Hall
THE FWCB AUGUST FIELD SESSION

The August Field Session is a unique opportunity for hands-on learning experiences. During the session students are immersed in the study of plants and animals in forests and lakes at the Cloquet Forestry Center and in the surrounding region. Students leave the Twin Cities and the confines of the classroom for the great outdoors. The Fisheries, Wildlife and Conservation Biology (FWCB) August Field Session is open only to FWCB majors. Students will participate in two courses during this session - FW3106, Vegetation Sampling for Habitat Assessments and FW3108, Field Methods in Research and Conservation of Vertebrate Populations. Students register for both courses in one program.

DATES: Student will arrive on Sunday, August 10; classes begin Monday, August 11; last day of class is Friday, August 29; students will attend class Saturday, August 16 and 23.

<table>
<thead>
<tr>
<th>Audience</th>
<th>This program is a requirement in the Fisheries and Wildlife curriculum. Only students majoring in Fisheries, Wildlife, and Conservation Biology may register for these courses.</th>
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<tbody>
<tr>
<td>Prerequisites</td>
<td>Sophomore standing in FWCB or instructor consent</td>
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<tr>
<td>Courses</td>
<td>FW 3106: Vegetation Sampling for Habitat Assessments (1cr)</td>
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<td>Primary Instructor: Jason J. Husveth, M.S.</td>
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<td>Course Description: Students are introduced to common vegetation sampling methods used for habitat assessments. Students learn to identify approximately 75 vascular plant species typical of Minnesota’s terrestrial and aquatic ecosystems using taxonomic keys and readily observable traits. The importance of these plants for providing food, cover, and nesting are also covered.</td>
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<tr>
<td></td>
<td>FW 3108: Field Methods in Research and Conservation of Vertebrate Populations (3 cr)</td>
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<td>Primary Instructor: Dr. James Forester</td>
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<td>Course Description: Planning and implementation of research and management projects, collecting and analyzing data in groups, group and individual oral and written reports; each student keeps a field journal.</td>
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REGISTRATION FOR THE AUGUST FIELD SESSION

Registration is on-line. If you do not fulfill course prerequisites you will need to get a permission number from Dr. Forester (jforest@umn.edu).

Registration for this session begins on **Tuesday, April 8**th for admitted students. All students should be sure to complete their fall registration (which begins on April 10th) prior to leaving for Cloquet. There are only three days between the end of the summer session and the beginning of the fall semester.

HEALTH CONSIDERATIONS

The August Summer Field Session involves sustained physical activity. A medical examination prior to the session is advised. Students who are required to complete the field session, but will not be able to do so due to medical reasons, should contact the FWCB Department Head, Dr. Susan Galatowitsch (612/624-3242).

Immunization clearance is not required for the session; however, students attending the session should have had a tetanus booster vaccination within the last five years.

The Center does not stock any medications. If you are susceptible to allergic reactions to pollen, insect bites, stings, etc., **bring your own medication to the session**.

Lyme disease, a tick-borne illness, is present in Northern Minnesota. Students should take precautions to avoid contracting the disease as well as understand symptoms of infection. Most Lyme infections come from nymphal and adult deer ticks. Nymphs are about the size of a poppy seed. Students should dress appropriately to limit tick access to skin, use insect repellent in the field, and conduct regular ‘tick checks’ when changing clothes or bathing. Early symptoms may involve fever, headaches and fatigue. In addition, a circular rash often (but not always) develops at the site of the tick bite. Lyme disease is easily treated with antibiotics but left untreated can cause serious, long-term and irreversible health problems (joints, heart, central nervous system). More information can be found via links in the online version of this document.
FEES INFORMATION (ESTIMATE)

Regular tuition rates are applied for these courses. You will be charged tuition for 4 credits for undergraduate students.

Session 1 = May, Session 2 = August

Anticipated fees with own health insurance
Session 1: $857
Session 2: $995

Anticipated fees w/o own health insurance
Session 1: $1389
Session 2: $1527

Students must purchase the Student Health Benefit Plan (SHBP) unless they already have their own insurance coverage. Proof of coverage when registering will exempt you from additional insurance charges. Students currently enrolled in the College of Food, Agricultural and Natural Resource Sciences during Spring semester and on the SHBP are also exempt from purchasing additional insurance. However, you must choose the ‘Purchase University Insurance’ when registering for summer courses. You will not be charged additional costs; this is a bookkeeping step. If you are not already insured, you will automatically be enrolled in the University-sponsored plan (SHBP) if you do not have your own insurance.

A billing statement for tuition and fees will be sent to your student account. These charges must be paid in full by the due date indicated on your billing statement. A late fee will be assessed if payment is not received by that time.

REQUIRED COURSE SUPPLIES

Personal items

- Pillow cases, bed linen and blankets must be furnished by students; pillows and mattresses are provided at the station
- Field clothes adequate for protection against cold and rain.
  - waterproof hat, jacket, pants, and waterproofed boots are an absolute necessity because field work is carried out regardless of the weather.
- Any other clothing deemed necessary for a 3.5-week field course
- Toiletries
- Any medications including kits for insect stings, bee stings etc.
The following supplies are not available at the Cloquet Forestry Center. Purchase them before you leave the Twin Cities. Most are available at the Books Underground Bookstore on the St. Paul Campus. For the most part, the expensive items will also be used in other courses and/or in your professional careers.

*FW 3106 – Vegetation Sampling for Habitat Assessments*

- Hand Lens – Doublet 10x (see page 7 for image)
- Pocket knife or similar sharp tool
- 3 x 5 inch ruled file cards, one or two packages of 100 each
- Boots, water proofed to the ankle for bog and wet area walks. Many students prefer rubber knee boots.
- These books are helpful but not required.  
  *Forest Plants of Central Ontario*, Lone Pine Press  
  *Field Guide to Wildflowers*, North Central/NE US, Peterson Guide or similar book  
  *Wetland Plants and Plant Communities*, *U.S. Army Corps of Engineers*  
  *Wildflowers of Minnesota*, Stan Tekiela, or similar book

*FW 3108 – Field Methods in Research and Conservation of Vertebrate Populations*

- Rain suit  
- Chest waders (must be non-breathable)  
- Two orange Elan E64-8 x 4 inch field notebooks or similar Rite-in-Rain books  
- One Silva or Suunto mirror-sighting compass  
- Binoculars (highly recommended)  
- Digital camera (optional)  
- Fish, mammal, and bird field guides (optional)  
- GPS (optional)

**HOUSING**

During the session, students and faculty are housed at the Cloquet Forestry Center. There are several room options including two- to three-person hotel style rooms, four-person rooms with shared bathroom, and an eight-person dorm with shared bathroom. Camping facilities are not available. Students are required to stay on campus because it greatly simplifies schedules and group assignments, and provides a better learning experience.

Shared occupancy is required. Pillowcases, bed linen, and blankets must be furnished by students; pillows and mattresses are provided at the station. Students are responsible for room clean-up prior to departure at the end of the course.
ARRIVAL AND DEPARTURE

Check-in

All students must arrive on Sunday, August 10, between 2:00 p.m. and 5:00 p.m. Dinner will be served at 5:45 PM with orientation to the session at 7:00 p.m. that same evening in the Auditorium (Building #49). Upon arrival at the station, students should check-in with University staff. Students will be housed on a first come first serve basis. If you want a particular room arrangement plan to arrive earlier rather than later! Park your car in the large visitor parking area behind the administration building.

Class Schedule

Classes begin on Monday, August 11. We will be traveling to the University of Minnesota Biological Station at Itasca State Park on Sunday, August 24, and will remain at the biological station until the last day of class on Friday, August 29. Checkout will occur on the morning of Saturday, August 30. In fairness to all students attending the session, requests for early releases to accommodate personal plans will not be approved.

Classes are scheduled from 8:00 a.m. to 12:00 p.m. and 1:15-5:15 p.m., Monday through Saturday. There will be no classes on Sundays.

Meals

Students are expected to eat their meals in the Dining Hall. The meal schedule is indicated below. The lodging and meals fee covers all meals served; there is no refund for meals missed.

<table>
<thead>
<tr>
<th></th>
<th>Monday through Saturday</th>
<th>Tuesday through Saturday</th>
<th>Sunday</th>
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<tbody>
<tr>
<td>Time</td>
<td>7:00 a.m.</td>
<td>12:15 p.m.</td>
<td>10:00 a.m.</td>
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<td></td>
<td>5:45 p.m.</td>
<td>5:00 p.m.</td>
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</table>

You are encouraged to bring a reusable travel mug for coffee and beverages to go.

MISCELLANEOUS

Telephone

The Cloquet Forestry Center office number is 218/726-6400. In addition, several courtesy telephones are located throughout the center. In the hallway across from the classroom of the Administration Building, 218/726-6488; in the porch outside of the dining hall, (218/726-6489; and in the kitchen units of cabin #45, 218/726-6492 and cabin #46, 218/726-6493).
Computer

A 24-station computer lab is available to students for class assignments, e-mail, and internet access via a T1 line. The computer hard drives are write-protected, so bring a flash drive to save personal files (e.g. reports, assignments, etc.). The session usually includes 60-70 students. Students with laptops may choose to bring them to the session. There is wireless internet access in parts of the station.

Mail

Mail arrives between 2:00 and 4:00 p.m. daily, and can be sent to the Cloquet Forestry Center using the following address:

Cloquet Forestry Center  
175 University Road  
Cloquet, MN 55720-9594

Outgoing mail can be placed in a box on the table located outside the office on the upper level of the Administration Building. It must be placed in the box by 4:00 p.m. each day.

Laundry

There are two washing machines and dryers at the station for student use. Two laundromats are located in the City of Cloquet.

Alcoholic Beverages

Absolutely no alcohol is permitted at the Center. Violators will be removed from University housing.

Pets

Pets are not permitted—do not bring them! This policy is rigidly enforced.

Firearms

The Cloquet Forestry Center is a game refuge. The discharge of firearms is prohibited by state law.
LOCATION

The August Summer Field Session is held at the University of Minnesota Cloquet Forestry Center in Northern Minnesota. [http://cfc.cfans.umn.edu/](http://cfc.cfans.umn.edu/)