

## **EEOB 1910: Introduction to Biological Studies-Local Plants**

### **Instructor**

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Lake Erie Islands Conservancy

### **Course Logistics**

One-week course held at Stone Laboratory, Put-in-Bay, Ohio, July 30-August 5, 2017.

Sunday check-in and orientation. Class meets Sunday evening; Monday-Friday, 8 am - 5 pm with breaks for lunch and dinner (further evening class activities may also be scheduled); and Saturday, 8 am – 12 pm.

### **Course Format**

2 semester credit hours consisting of lecture, field work and laboratory time

### **Course Description**

EEOB 1910 is primarily an introductory field course in plant identification useful in preparation for wetland and other botanical field work or natural history interpretive work. Learn plants of wetlands, shores, forest, prairies through field trips to preserves on the Lake Erie Islands and northwest Ohio, as well as in the classroom during lecture/lab sessions. Field trips will emphasize hands-on familiarization with local plants. Lecture/lab sessions will focus on the principles of classification, identification, and nomenclature, important characteristic of plants, conservation and plant habitats. A list of plant species, families and their habitats will be compiled for the week. Evening sessions will include plant pressing techniques and a wild edibles dinner.

Course objectives include being able to recognize, identify and name terrestrial and aquatic plants including trees, shrubs, vines, ferns and summer's herbaceous plants as well as gaining confidence in the use of identification keys. Emphasis will also be on learning common plant families and topics of plant conservation and ecology. Students will demonstrate their understanding of course materials via quizzes, an oral presentation, and an exam.

### **Course Materials**

Newcomb, Lawrence, Newcomb's Wildflower Guide, 1989, Little Brown and Company, New York, New York.

Watts, Mary Thielgard, Tree Finder: A Manual to Tree Identification by Their Leaves, 1998, Nature Study Guild, New York, New York.

Hallowell, Anne and Barbara G. Hallowell, Fern Finder: A Guide to Native Ferns of Central and Northeast U. S. and Eastern Canada, 2011, Nature Study Guild, Berkely, California.

Braun, E. Lucy, The Woody Plants of Ohio Trees, Shrubs, and Woody Climbers Native, Naturalized and Escaped, 1989, The Ohio State University Press, Columbus, Ohio.

Texts and supplies (hand lens) can be purchased through the Marion bookstore prior to arriving for the course. Other readings will be provided by the instructor

## Course Outline (Subject to change)

| Day         | Time  | Description  | Readings   |
|-------------|---|--|--|
| <b>Sun</b>  | 4:00-5:00p<br>5:00-6:00p<br>6:30-7:30p  | Orientation: Introduction to Stone Laboratory<br>Dinner<br>Introduction to Local Plants, Overview of Week  |  |
| <b>Mon</b>  | 7:00-7:45a<br>8:00-10:30a<br><br>10:30-12:00a<br>12:00-12:45a<br>1:00-4:00pm<br><br><br>5:00-6:00p<br>6:30-7:30p          | Breakfast<br>Learning the Language, Floral Parts, Terms-<br>Microscopes, Fruit Keys/Terms, Seed Dispersal<br>Practice Flower, Tree Keys on Gibraltar Island<br>Lunch<br>Field Trip to South Bass Island-DeRivera<br>Woods, Ladd Carr Wildlife Woods, Forests, Plant<br>Collecting<br>Dinner<br>Plant Pressing Workshop, Open Plant Lab for<br>Review | Newcomb's x- xviii, xxi, Braun, 9-18                               |
| <b>Tues</b> | 7:00-7:45a<br>8:00-8:15a<br>8:30-10:30a<br><br>10:30-12:00<br>12:00-12:45p<br>1:00-4:00pm<br><br>5:00-6:00p<br>6:30-7:30p | Breakfast<br>Quiz 1-Plant Terms and Tree ID<br>Lecture-Plant Habitats and Why, Wetlands,<br>Grasses-Sedges-Rushes, Succession<br>Submerged Aquatics by Row Boat-PIB Harbor<br>Lunch<br>Field Trip-Middle Bass Island State Park,<br>Kuehnle State Wildlife Area<br>Dinner<br>Open Plant Lab for Review   | Braun 19-32,<br>Wetlands, Grasses, Submerged<br>Aquatics Materials |
| <b>Wed</b>  | 7:00-7:45a<br>8:00-8:15a<br>8:30-9:30a<br>9:30a-4:00p<br><br><br>5:30-7:00p<br>8:00-9:00p                                 | Breakfast<br>Quiz 2, Plant ID<br>Lecture-Alvars, Ferns, Invasives<br>Field Trip to Kelleys Island, North Shore Alvar,<br>East Quarry, Scheele Preserve, North Pond,<br>Beach, Sack Lunch<br>Edible Plant Dinner at Brohl's<br>Open Plant Lab for Review  | Hallowell 1-7<br>Alvar, Invasives, Plant Conservation<br>Materials |
| <b>Thur</b> | 7:00-7:30a<br>7:30a-4:30p<br><br><br>5:00-6:00p<br>7:00-7:45p<br>8:00-900p  | Breakfast<br>Quiz 3, Field Trip: Mainland Resthaven Tallgrass<br>Praire, Fen, Erie Sand Barrens, Edison Woods-<br>Ferns, Sack Lunch<br>Dinner<br>Research Lecture<br>Guest Lecture   | Praire ,Fen, Fern Materials  |
| <b>Fri</b>  | 7:00-7:45a<br>8:00-9:00a<br>9:30a-4:30p<br><br><br>5:00-6:00p<br>6:30-7:30p<br>7:30                                       | Breakfast<br>Class Presentations<br>Field Trip-Pelee Island (Fish Point, Stone Road<br>Alvar) or Mainland (Oak Openings, Kitty Todd),In<br>field review, Sack Lunch<br>Dinner<br>Herbarium Mounting Session<br>Plant Lab Open for Review   |  |
| <b>Sat</b>  | 7:00-7:45a<br>8:00-10:00a   | Breakfast<br>Written Final, Identification Practical and Keying<br>Final   |  |

## **Majors Assignments**

**Quizzes:** A short quiz consisting of five plant identification questions plus a few short answer questions based on the material covered in the previous day's lecture. Quizzes will be Monday, Tuesday, and Wednesday morning. Specific topics will be reviewed the night before.

**Plant Collection:** Collect, dry and prepare for mounting five plant specimens including one woody plant and one herbaceous plant. Mount best specimen on herbarium paper.

**Plant or Habitat Report:** Students will research and write an ecological life history of a chosen plant/tree or a description of a plant habitat type for a 10 minute oral presentation to the class on Friday morning.

**Final Exam:** The final exam will include a written portion with short answer, labeling, and matching. The practical portion will include identifying plants and trees from the class list learned during the week. There will also be five new plant/tree samples for keying as part of the final.

## **Grading Information**

|                                    |            |
|------------------------------------|------------|
| Three Quizzes                      | 25%        |
| Plant Collection                   | 25%        |
| Plant Report                       | 25%        |
| Final Exam (Written and Practical) | <u>25%</u> |
| Total                              | 100%       |

## **Grading Scale**

|          |    |
|----------|----|
| 93-100%  | A  |
| 90-92.9% | A- |
| 87-89.9% | B+ |
| 83-86.9% | B  |
| 80-82.9% | B- |
| 77-79.9% | C+ |
| 73-76.9% | C  |
| 70-72.9% | C- |
| 67-69.9% | D+ |
| 60-66.9% | D  |
| <60%     | E  |

## **Attendance Policy**

Students are expected to actively participate in all class sessions, including lectures, fieldwork and laboratory time.

## **Academic Misconduct**

It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term "academic misconduct" includes all forms of student academic misconduct wherever committed: illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). For additional information, see the Code of Student Conduct <http://studentlife.osu.edu/csc/>.

**Disability Services**

Students with disabilities that have been certified by the Office for Disability Services will be appropriately accommodated and should inform the instructor as soon as possible of their needs. The Office for Disability Services is located in 150 Pomerene Hall, 1760 Neil Avenue; telephone 614-292-3307, TDD 614-292-0901; <http://www.wds.ohio-state.edu/>.