

Common Course Number: BOT-2153-C

Course Title: Native Plant Community Installation and Management

Catalog Course Description:

The fundamental plant structure of south Florida plant communities as well as their installation and maintenance will be presented. A special focus will be upon the appropriate selection of species and their proper placement by hydroperiod and substrate. This course will assist those students preparing for careers in ecological restoration and park management. This is a combination lecture and lab course. (2 hr lecture and 2 hrs lab).

Credit Hours: 3

Prerequisites: BOT 2150C

Corequisite: None

Course competencies:

Competency 1: The water, light, and substrate needs of native plants

Upon successful completion of this course, the student will be able to explain the water, light and substrate needs of native plants by:

- A. Correctly locating species within selected habitats by hydroperiod substrate, and light needs.
- B. Identifying reasons for failures in attempted native plantings

Competency 2: The native plants appropriate to South Florida habitats

Upon successful completion of this course, the student will be able to demonstrate knowledge of the native plants appropriate to South Florida by:

- A. Identifying, listing the native plant species appropriate to each major plant community in south Florida.
- B. Developing a list of appropriate native plants for an urban lakeshore landscape installation when given site details.
- C. Discussing the appropriate native plants for an upland landscape installation when given site details.

Competency 3: Proper positioning and installation of native plants.

Upon successful completion of this course, the student will be able to demonstrate knowledge of the proper planting techniques for native plants by:

- A. Installing plants in their appropriate native communities.
- B. Installing native plants according to their ecological needs.

Competency 4: The student will demonstrate an understanding of exotic plant management by

Upon successful completion of this course, the student will be able to demonstrate knowledge of the proper management/control of integrated pest and exotic plant species by:

- A. Selecting and applying the appropriate integrated pest management (IPM) techniques for managing exotic plants in native areas.
- B. Identifying native weedy and exotic species.

Competency 5: Proper installation and management of native plants.

Upon successful completion of this course, the student will be able to provide appropriate long-term management of native plant communities by:

- A. Creating a five-year management plan for a native plant installation.
- B. Practicing appropriate site preparation, installation, and general native plant maintenance procedures.
- C. Distinguishing between ecological restoration and reclamation.
- D. Creating an appropriate restoration plan when given a native habitat example.