

# BOTANY

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## Course Search

Not all courses are offered every semester. Refer to the schedule of courses for each term's specific offerings.

[More Info](#)

*Courses at the University of Florida, with the exception of specific foreign language courses and courses in the online Master of Arts in Mass Communication program, are taught in English.*

## Courses

### **BCH 3023 Elementary Organic and Biological Chemistry** 3 Credits

Elementary organic chemistry and biochemistry for students in the agricultural technical curricula. This is a terminal course and is not part of any sequence.

**Prereq:** CHM 2046 or CHM 2047

### **BOT 2010C Introductory Botany** 3 Credits

Structures and functions of cells, tissues and organs of flowering plants. Students with credit in APB 2150, BSC 2005 or BSC 2010 cannot register for this course; they should take BOT 2011C. (B)

General Education - Biological Science

### **BOT 2011C Plant Diversity** 4 Credits

Survey of major plant groups with regard to structure, life histories and uses accompanied by a laboratory showing the diversity of plants in the world. (B)

**Prereq:** introductory college biology/botany course or the equivalent  
General Education - Biological Science

### **BOT 2710C Practical Plant Taxonomy** 3 Credits

Introduces plant taxonomy including principles of systematic botany, nomenclature and classification, but emphasizing identification. Student will be able to identify the common ferns, fern allies, gymnosperms and flowering plants of field and garden.

General Education - Biological Science

### **BOT 2800C Plants in Human Affairs** 3 Credits

The role of plants in the development of civilization and the influence of plants on world history, politics, economics and culture. A survey of useful and harmful plants and plant products. (B)

General Education - Biological Science

### **BOT 3151C Local Flora of North Florida** 3 Credits

Laboratory observation of the gross features of vascular plants and practice in the use of keys to identify plants. Elementary ecology of principal types of plant communities in northern Florida. Field trips.

General Education - Biological Science

### **BOT 3503 Physiology and Molecular Biology of Plants** 3 Credits

The chemical organization, cellular organization, metabolism, nutrition, growth and molecular biology of the higher plants.

**Prereq:** BOT 2010C or BSC 2005 or BSC 2010

**Coreq:** BOT 3503L (laboratory may be taken in subsequent term)

### **BOT 3503L Physiology and Molecular Biology of Plants Laboratory** 2 Credits

Laboratory experiments to accompany BOT 3503.

**Coreq:** BOT 3503

### **BOT 4053 Practical Experience in Teaching Botany** 2 Credits

Participation in teaching one 3000-level botany course with practical experience in instructional procedures, testing and grading, course and laboratory preparation and laboratory assistance.

**Prereq:** generally, senior standing with recommendations from two faculty members, including the course instructor

### **BOT 4621 Plant Geography** 2 Credits

Patterns in the distribution of plants around the earth and factors that influence plant geography. Topics include similarities of plant communities in different parts of the world, common distribution patterns among individual taxa, and methods for inferring biogeographic history and predicting future changes in plant distribution.

**Prereq:** BSC 2010/2010L and BSC 2011/2011L with minimum grades of C, or instructor permission

### **BOT 4650 Plant Symbiosis** 3 Credits

Examines the crucial role of symbioses in shaping the diversity of life. Topics include generalities among symbioses, origins and establishment of symbioses, and coevolution and cospeciation, as well as specifics of well-studied exemplars of bacterial, fungal, animal, and plant symbioses with plants.

**Prereq:** BSC 2010/2010L and BSC 2011/2011L with minimum grades of C

### **BOT 4905 Individual Studies in Botany** 2-4 Credits

Qualified students and an instructor choose a particular problem for study.

**Prereq:** 8 credits of botany

### **BOT 4911 Undergraduate Research in Botany** 3 Credits

Provides firsthand, supervised research in Botany. Projects may involve inquiry, design, investigation, scholarship, discovery or application in Botany.

### **BOT 4935 Special Topics** 1-4 Credits

Special topics in botany.

### **BOT 4956 Overseas Studies** 1-15 Credits

Overseas Studies.

### **PCB 3023 Essential Cell Biology** 3 Credits

Introduces the basic concepts of molecular cell biology in prokaryotic and eukaryotic systems including experimental strategies and methodology. This course is intended for those interested in plants.

**Prereq:** BSC 2011 and BSC 2011L, or equivalent

### **PCB 3034C Introduction to Ecology** 4 Credits

Basic principles of ecology as they apply to environmental problems including major terrestrial and aquatic ecosystems of Florida.

**Prereq:** introductory college biology  
General Education - Biological Science

### **PCB 3601C Plant Ecology** 3 Credits

Principles of ecology at scales ranging from individual plants to landscapes. Emphasis is on species, ecosystems and environmental programs in Florida.

**Prereq:** introductory college biology or botany

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