

# BOTANY

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

More Info (<https://one.ufl.edu/soc/>)

*Unless otherwise indicated in the course description, all courses at the University of Florida are taught in English, with the exception of specific foreign language courses.*

## Department Information

The Department of Biology studies life at all levels from molecules to the biosphere to understand the evolution, structure, maintenance and dynamics of biological systems. The department's teaching and research provide the integrative and conceptual foundations of the life sciences.

**Website** (<https://biology.ufl.edu/>)

### CONTACT

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Map (<http://campusmap.ufl.edu/#/index/0747>)

### Curriculum

- Biology UF Online
- Biology | CALS
- Biology | CLAS
- Botany Minor
- Botany | CALS
- Botany | CLAS
- Combination Degrees
- Zoology
- Zoology Minor

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## Courses

Please note that a complete list of all courses offered by the Department of Biology can be found here ([http://catalog.ufl.edu/UGRD/courses/biological\\_sciences/](http://catalog.ufl.edu/UGRD/courses/biological_sciences/)).

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

**Grading Scheme:** Letter Grade

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

**Prerequisite:** CHM 2046 or CHM 2047.

### BOT 2010C Introductory Botany 3 Credits

**Grading Scheme:** Letter Grade

Intro Botany, for science majors. Introductory-entry level course primarily for beginning students or new college students. First course in botany. Structures functions of cells, tissues, and organs of flowering plants. This course affords students the ability to critically examine and evaluate the principles of the scientific method, model construction, and use the scientific method to explain natural experiences and phenomena.

**Attributes:** General Education - Biological Science

### BOT 2011C Plant Diversity 4 Credits

**Grading Scheme:** Letter Grade

Survey of major plant groups with regard to structure, life histories and uses accompanied by laboratory showing diversity of plants in the world. This course affords students the ability to critically examine and evaluate the principles of the scientific method, model construction, and use the scientific method to explain natural experiences and phenomena.

**Prerequisite:** introductory college biology/botany course or the equivalent.

**Attributes:** General Education - Biological Science

**BOT 2710C Practical Plant Taxonomy 3 Credits****Grading Scheme:** Letter Grade

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.

**BOT 2800C Plants in Human Affairs 3 Credits****Grading Scheme:** Letter Grade

Role of plants in development of civilization and influence of plants on world history, politics, economics and culture. Survey of useful and harmful plants and plant products. This course affords students the ability to critically examine and evaluate the principles of the scientific method, model construction, and use the scientific method to explain natural experiences and phenomena.

**Attributes:** General Education - Biological Science**BOT 3151C Local Flora of North Florida 3 Credits****Grading Scheme:** Letter Grade

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. Includes field trips.

**Prerequisite:** BSC 2005 or BSC 2010.**BOT 3503 Physiology and Molecular Biology of Plants 3 Credits****Grading Scheme:** Letter Grade

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

**Prerequisite:** (BOT 2010C or BSC 2005 or BSC 2010) and CHM 2046 and CHM 2046L.**Corequisite:** BOT 3503L; laboratory may be taken in subsequent term.**BOT 3503L Physiology and Molecular Biology of Plants Laboratory 2 Credits****Grading Scheme:** Letter Grade

Laboratory experiments to accompany BOT 3503.

**Corequisite:** BOT 3503.**BOT 4053 Practical Experience in Teaching Botany 2 Credits****Grading Scheme:** Letter Grade

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

**Prerequisite:** generally, senior standing with recommendations from two faculty members, including the course instructor.**BOT 4650 Plant Symbiosis 3 Credits****Grading Scheme:** Letter Grade

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.

**Prerequisite:** BSC 2010 and BSC 2010L and BSC 2011 and BSC 2011L with minimum grades of C.**BOT 4905 Individual Studies in Botany 2-4 Credits****Grading Scheme:** Letter Grade

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

**Prerequisite:** 8 credits of botany.**BOT 4911 Undergraduate Research in Botany 0-3 Credits****Grading Scheme:** Letter Grade

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****Grading Scheme:** Letter Grade

Special topics in botany.

**Prerequisite:** BSC 2010 and BSC 2011.**BOT 4956 Overseas Studies 1-15 Credits****Grading Scheme:** Letter Grade

Overseas Studies

**PCB 3023 Essential Cell Biology 3 Credits****Grading Scheme:** Letter Grade

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.

**Prerequisite:** BSC 2011 and BSC 2011L, or equivalent.

**PCB 3601C Plant Ecology 3 Credits**

**Grading Scheme:** Letter Grade

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

**Prerequisite:** introductory college biology or botany.

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