

BOTANY (BOT & BOTL)

205. Introduction to Botany. [LCCN: C BIO 2314, Botany I Lec + Lab]. Credit 4 hours. Prerequisite: GBIO 153 and BIOL 154 or equivalent. The biology of plants, emphasizing the ecology, evolution, morphology, and systematics of flowering plants. Two hours of lecture and four hours of laboratory per week. A Laboratory fee is required for this course. (As needed)

347. Vascular Plant Systematics. Credit 4 hours. Prerequisites: GBIO 153 and BIOL 154 or equivalent and Sophomore standing, or permission of the Department Head. An introduction to the identification, naming, classification and evolution of vascular plants. Two hours of lecture and 4 hours of laboratory per week. (As Needed)

401/501. Plant Pathology. Credit 4 hours. Prerequisite: GBIO 153 and BIOL 154 or equivalent and Junior standing or permission of the Department Head. A study of the nature and causes of disease in plants, emphasizing the principal diseases in Louisiana crops. Two hours of lecture and four hours of laboratory per week. A Laboratory fee is required for this course. (As Needed)

426/526. Plant Physiology. Credit 4 hours. Prerequisite: GBIO 153 and BIOL 154 or equivalent, Chemistry 101/121-102/122 or equivalent and Junior standing permission of the Department Head. A study of the life processes of plants emphasizing plant water relations, photosynthesis, transport process, and interactions with the environment. Three hours of lecture and three hours of laboratory per week. (Spring)

427/527. Plant Stress Ecophysiology. Credit 4 hours. Prerequisite: Botany 426/526 or equivalent and Junior standing or permission of the Department Head. An advanced course in plant physiology with emphasis on the stress physiology of plants in coastal and changing environments. Topics include non-destructive indicators of plant growth, nutrient stress, drought stress, salt stress, flooding stress, and plant responses to global change, such as increased carbon dioxide concentrations and temperature stress. Three hours of lecture and three hours of laboratory per week. (As Needed)

429/529. Native Plants of Louisiana. Credit 4 hours. Prerequisites: GBIO 153 or BIOL 154 or equivalent. An introduction to flowering plant diversity, with a focus on local Louisiana flora. The course will include lectures, laboratories, and field trips. Topics covered will include important plant families, flowering plant systematics, structure of plants with an emphasis on flowers, how to key out plants, use of herbarium specimens for identification, and identification and examination of representative specimens of plant families in the wild. Two hours of lecture and four hours of laboratory per week. (Summer)

433/533. Phycology. Credit 4 hours. Prerequisite: GBIO 153 and BIOL 154 or equivalent and Junior standing or permission of the Department Head. A study of the freshwater algae of southeastern Louisiana, emphasizing the ecology, taxonomy, and morphology of natural collections. Two hours of lecture and four hours of laboratory per week. A Laboratory fee is required for this course. (As Needed)

458/558. General Mycology. Credit 3 hours. Prerequisite: GBIO 153 and BIOL 154 and Junior standing or permission of the Department Head. A study of the morphology, taxonomy, and physiology of fungi. Two hours of lecture and two hours of laboratory per week. (As needed)

481/581 [382]. Plant Ecology. Credit 4 hours. Prerequisites: GBIO 153 and BIOL 154 and Junior standing or permission of the Department Head. A study of plants in relationship to their environments, with examples from recent publications in autecology, physiological ecology, population biology and plant community ecology, and with experience in the vegetation and habitats of Louisiana. Two hours of lecture and four hours of laboratory per week. (As needed)

482/582. Plant Anatomy. Credit 4 hours. Prerequisite: GBIO 153 and BIOL 154 or equivalent and Junior standing or permission of the Department Head. A study of the anatomy and morphology of seed plants. Two hours of lecture and four hours of laboratory per week. A Laboratory fee is required for this course. (Fall)

671. Advanced Plant Taxonomy. Credit 4 hours. A study of plant systematics with attention to the evolutionary development of plant groups. Two hour of lecture and four hours of laboratory per week. (Fall)