BOTANY

BOTANY (BOT)

205. Advanced General Botany. Credit 4 hours. Prerequisite: GBIO 153 and BIOL 154 or equivalent. The biology of non-flowering plants, emphasizing the morphology, taxonomy, and ecology of the algae, fungi, mosses, ferns, and conifers. Three hours of lecture and two hours of laboratory per week.

247. Vascular Plant Systematics. Credit 4 hours. Prerequisites: GBIO 153 and BIOL 154 or equivalent and Sophomore standing, or consent 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.

401/501. Plant Pathology. Credit 4 hours. Prerequisite: GBIO 153 and BIOL 154 or equivalent and Junior standing or consent 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.

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 or consent 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 two hours of laboratory per week.

427/527. Plant Stress Ecophysiology. Credit 4 hours. Prerequisite: Botany 426/526 or equivalent and Junior standing or consent of the Department Head. An advanced course in plant physiology with emphasis on the stress physiology of plants in costal 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 two hours of laboratory per week.

433/533. Phycology. Credit 4 hours. Prerequisite: GBIO 153 and BIOL 154 or equivalent and Junior standing or consent 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.

458/558. General Mycology. Credit 3 hours. Prerequisite: GBIO 153 and BIOL 154 or equivalent and Junior standing or consent 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.

481/581 [382]. Plant Ecology. Credit 3 hours. Prerequisites: GBIO 153 and BIOL 154 or equivalent, 12

additional hours of Biological Science and Junior standing or consent 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 plan community ecology, and with experience in the vegetation and habitats of Louisiana. Three hours of lecture per week.

482/582. Plant Anatomy. Credit 4 hours. Prerequisite: GBIO 153 and BIOL 154 or equivalent and Junior standing or consent 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.

621. Advanced Plant Pathology. Credit 4 hours. Prerequisite: Botany 401 or consent of the Department Head. An advanced course designed to teach principles of plant pathology. Two hours of lecture and one four-hour laboratory per week.

623. Experimental Botany for Teachers. Credit 4 hours. A course designed for secondary and/or elementary school science teachers. Emphasis will be placed on the design of laboratory experiments which are applicable to the elementary and secondary levels. Lecture topics will include experimental design, equipment and subject preparation, procurement and preservation of specimens. Three hours of lecture and two hours of laboratory per week. May not be used as credit toward a major in Biological Sciences.

671. Advanced Plant Taxonomy. Credit 3 hours. Prerequisites: Botany 412 or 447. A study of the classification of plants with attention to the phylogeny and evolutionary development of plant groups. One hour of lecture and four hours of laboratory per week.

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