**BOTANY (BOT)**

**BOT Courses**

**BOT 121. General Botany. 4 units**

2020-21 or later catalog: GE Area B2
2020-21 or later catalog: GE Area B3
2019-20 or earlier catalog: GE Area B2
2019-20 or earlier catalog: GE Area B4

The anatomy, physiology, reproduction, and importance of plants. 3 lectures, 1 laboratory. Fulfills GE Areas B2 and B3 (GE Areas B2 and B4 for students on the 2019-20 or earlier catalogs).

**BOT 311. Plants, People and Civilization. 4 units**

2020-21 or later: Upper-Div GE Area B
2019-20 or earlier catalog: GE Area B5

Prerequisite: Completion of GE Area B2.

Human uses of plants for food, beverage, medicine, fiber, recreation, and rituals. Uses of plants by different cultures throughout the world and the social, economical, and environmental importance of plants in our lives. 3 lectures, 1 laboratory. Fulfills GE Upper-Division B (GE Area B5 for students on the 2019-20 or earlier catalogs).

**BOT 313. Taxonomy of Vascular Plants. 4 units**

Prerequisite: BIO 114 or BIO 162 or BOT 121.

Introduction to classification and identification of vascular plants, emphasizing major plant families; field and herbarium techniques. 2 lectures, 2 laboratories.

**BOT 323. Plant Pathology. 4 units**

Prerequisite: BIO 162 or BOT 121.

Comprehensive study of the causes and effects of diseases of plants. Designed to lead to an understanding of plant pathology, and modern methods to control plant disease. 2 lectures, 2 activities. Crosslisted as AEPS/BOT 323.

**BOT 326. Plant Ecology. 4 units**

Prerequisite: BIO 114, BIO 162, BIO 211, or BOT 121. Recommended: BIO 263 and STAT 217 or STAT 218.

Plant communities, population dynamics, and effects of the following environmental factors on plant growth and development: soil, water, temperature, light, atmosphere, topography, organisms, and fire. 3 lectures, 1 laboratory.

**BOT 329. Plants, Food, and Biotechnology. 4 units**

2020-21 or later: Upper-Div GE Area B
2019-20 catalog: GE Area B7
2017-19 or earlier catalog: GE Area F

Prerequisite: Junior standing; completion of GE Area A with grades of C- or better; and one course in GE Area B4 with a grade of C- or better (GE Area B1 for students on the 2019-20 or earlier catalogs); and one of the following courses: AEPS 120, BIO 111, BIO 114, BIO 161, or BOT 121.

Agriculture as applied biology and its impact on civilization. Application of technology to increase the efficiency of food production. Genetics and biotechnology; culminating in an assessment of genetically engineered foods, the myths, the controversy, the science. Not open to Agricultural and Environmental Plant Sciences majors. 3 lectures, 1 laboratory. Crosslisted as AEPS/BOT 329. Fulfills GE Upper-Division B (GE Area B7 for students on the 2019-20 catalog; GE Area F for students on earlier catalogs).

**BOT 433. Field Botany: California Plant Diversity. 5 units**

Prerequisite: BOT 313, or graduate standing in Biological Sciences.

Field studies of California's diverse vegetation. Identification of plants and plant communities in the field. Factors affecting distribution and ecological relationships. California geography, geology, and evolution of California flora. Several one day field trips and three weekend trips to California's deserts and mountains. Field trips required. 3 lectures, 2 laboratories.