

DEPARTMENT OF LANDSCAPE ARCHITECTURE AND ENVIRONMENTAL PLANNING AT UC BERKELEY
COURSES THAT FULFILL THE BIOLOGICAL SCIENCES
BREADTH REQUIREMENT

	<ul style="list-style-type: none"> ▪ General Biology -- Biology (BIOLOGY) 1B [4 units] Course Format: Three hours of lecture, three hours of laboratory, and one hour of discussion per week. Description: General introduction to plant development, form, and function; population genetics, ecology, and evolution. Intended for students majoring in the biological sciences, but open to all qualified students. Students must take both Biology 1A and 1B to complete the sequence, but Biology 1A is not a requirement for LA majors. Sponsored by Integrative Biology. (F,SP) Staff
MUST BE TAKEN CONCURRENTLY	<ul style="list-style-type: none"> ▪ Biology (BIOLOGY) 11 [3 units] Introduction to the Science of Living Organisms-- Course Format: Three hours of lecture and one hour of discussion per week. Prerequisites: For students not majoring in a biological science and for non-science majors. Credit option: Students will receive no credit for 11 after receiving credit for both Integrative Biology 15 and 30. Description: Principles of biological organization and function using examples from plant and animal kingdoms. Similar in scope to Biology 1 except that knowledge of physical sciences is neither required nor assumed. Sponsored by Plant and Microbial Biology. (SP) Jones, Quail
	<ul style="list-style-type: none"> ▪ Biology (BIOLOGY) 11L [2 units] Laboratory for Biology 11 -- Course Format: Three hours of laboratory and one hour of discussion per week. Prerequisites: Must be taken concurrently with Biology 11. Description: Laboratory designed to accompany Biology 11, Introduction to the Science of Living Organisms. Weekly laboratory exercises and one field trip to the UC Berkeley Botanical Garden. (SP) Jones, Quail
	<ul style="list-style-type: none"> ▪ Biology (PLANTBI) 40 [3 units] The (Secret) Life of Plants – Plant And Microbial Course Format: Two hours of lecture and one hour of discussion per week. Description: Covers contemporary topics in plant biology. Examines how plants grow, reproduce and respond to the environment (e.g./ to light) in ways distinct from animals. Presents basic principles of genetics, cell, and molecular biology. Basics of genetic engineering and biotechnology reveal how they are used to modify plants, and these socially relevant issues are assessed. Includes visit to modern plant biology research laboratory, and aspects of plant disease and diversity. Knowledge of the physical sciences neither required nor assumed. (SP) Zambryski
	<ul style="list-style-type: none"> ▪ The Biosphere -- Environmental Science, Policy And Management (ESPM) 2 [3 units] Course Format: Three hours of lecture and one hour of discussion per week. Description: An introduction to the unifying principles and fundamental concepts underlying our scientific understanding of the biosphere. Topics covered include the physical life support system on earth; nutrient cycles and factors regulating the chemical composition of water, air, and soil; the architecture and physiology of life; population biology and community ecology; human dependence on the biosphere; and the magnitude and consequences of human interventions in the biosphere. (F) Goldstein, Allen-Diaz
Prereq 1 course in intro college biology preferred	<ul style="list-style-type: none"> ▪ Environmental Biology -- Environmental Science, Policy And Management (ESPM) 6 [3 units] Course Format: Two hours of lecture and one hour of discussion per week. Prerequisites: One course in introductory college biology is recommended. Intended for non-science majors. Description: Basic biological and ecological principles discussed in relation to environmental disruptions. Human interactions with the environment; their meaning for animals and plants. Discussion of basic ecological processes as a basis for understanding environmental problems and formulating strategies for their solution. (F) Chapela
Prereq 8 units of Biol. Science or consent of instru.	<ul style="list-style-type: none"> ▪ ESPM 101A ---Sierra Nevada Ecology (4) Course Format:Forty-five hours of lecture/field exercises per week for three weeks, including Saturdays. Prerequisites: eight units of biological science or consent of instructor. Description: Ecology of forests, mountain meadows, mountain chaparral, and riparian zones of the Northern Sierra Nevada. Major emphasis on ecology as a basis for resource management and the maintenance of biological diversity. Field identification of flora, fauna, and soils is emphasized. Instruction in oral communication. Oral presentation required. Summer Session Only. The Staff