

BIOLOGY



PRE-GRADUATE SCHOOL

The program is designed to provide the basic course requirements to prepare students to meet the entrance requirements for most graduate programs in biology. All graduate programs have slightly different entrance requirements; however, this program will provide students with a solid foundation of biological knowledge as well as a basic understanding of chemistry and physics.

Why go to Graduate School?

Obtaining a post-baccalaureate degree will often expand your job opportunities and earning potential beyond that available to individuals with only a Bachelor degree. Graduate programs are more specialized than undergraduate curriculums, so they expand your knowledge of a particular area rather than duplicate the education you have already received. Furthermore, most graduate programs involve pursuing independent research as well as course work which provides a higher level of “hands on” experience than can usually be gained during undergraduate study.

Obtaining Information

If you are interested in going to graduate school, it is best to obtain a broad undergraduate education until you have narrowed your area of interest to one or two areas. Then you can contact individual biology graduate programs to determine what graduate degrees and concentrations are offered.

Pre-Graduate School

This track provides the basic courses required for entrance into most graduate programs in biology. The following course list also satisfies the major requirements for a Bachelor of Science (B.S.) degree in Biology.

A. Core Requirements

- 49 units with a minimum GPA of 2.0
- BIOL 2010 Intro Biology- Cells*
- BIOL 2110 Intro Biology- Animals
- BIOL 2120 Intro Biology- Plants
- BIOL 3120 Research Design & Analysis
- BIOL 3010 General Genetics
- BIOL 3020 General Physiology
- BIOL 3110 General Ecology
- BIOL 4100 Evolution
- BIOL 4910 Senior Seminar

B. Cognates

- 17 units with a minimum GPA of 2.0
- CHEM 1000 Found. of Chemistry
- CHEM 1001 Found. of Chemistry Laboratory
- CHEM 1100 Found. of Analytical Chemistry
- CHEM 2300 Found. of Organic Chemistry
- MATH 1050 Precalculus or equiv.
- PHYS 2110 College Physics I

The above cognates are the minimum to graduate with a BS in Biology; however, most graduate programs will require additional courses such as:

- CHEM 2400 Found. of Biochemistry
- CHEM 3300 Organic Chemistry
- CHEM 3301 Organic Chemistry Laboratory
- MATH 2010 Calculus for the Biological & Chemical Sciences OR
- MATH 2510 Calculus I
- PHYS 2120 College Physics II

check the entrance requirements for the graduate schools you want to apply to)

C. Electives

At least 20 units of additional upper division coursework in Biology. At least three of these courses must be 4-unit courses with lab and at least one must be at the 4000 level.

Choice of upper division electives should be chosen based on area(s) of interest.



CSU Bakersfield
School of Natural Sciences,
Mathematics, and Engineering



PRE- GRADUATE SCHOOL

Contact

Phone 661-654-3089
Web www.csub.edu
Office SCI I- 114

- Cell & Molecular Biology
- Plant Science
- Animal Science
- Ecology
- Microbiology

D. Research Experience

BIOL 4880 Research or
BIOL 4860 Internship in Biology

*Note: A grade of C- or better in BIOL 2010 is required to advance into upper division biology courses.

