

Contact Us

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Most professional schools require a bachelor's degree for admission. Competition for admission is severe, and students are advised to plan a program of study leading to a baccalaureate degree should admission be denied. Most students obtain a science degree, but other majors are also accepted provided required courses have been taken. Typically, mathematics and computers (one year), Physics (one year), chemistry (two years), and biology (two years) are required.

Small class size and individual attention are additional benefits Pre-Medical/Pre-Allied Health students enjoy while attending CSUB.

Interested students are encouraged to contact the Department of Biology for further information or to make an appointment with a faculty advisor.

This program is designed to provide the basic courses to meet entrance requirements for post-baccalaureate study in medicine, dentistry, veterinary medicine, pharmacy, chiropractic, and physical therapy while completing the B.S. degree in Biology.



Medicine, dentistry, veterinary medicine, pharmacy, physical therapy, and optometry are among the many fields students can prepare for at CSUB. The University offers course work to meet the requirements of

medical and other professional schools while providing a liberal arts education.

Recommended Courses

1. Biology Courses

a. The following courses:

Lower Division Core:

BIOL 2010 Intro Biology-Cell BIOL 2110 Intro Biology-Animals BIOL 2120 Intro Biology-Plants

Upper Division Core:

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. Upper Division Electives

At least 20 units of additional upper division elective coursework in Biology. At least three courses must be four units with lab and at least one must be a laboratory course at the 4000-level. Four units selected from the following may be substituted for an elective: CHEM 3400 & 3401 or 4400 & 4401 (only one combination may be substituted), or other by advisor's approval.

Suggested Courses:

BIOL 3410 General Microbiology

BIOL 4440 Molecular Genetics

BIOL 4510 Comparative Vertebrate
Anatomy

BIOL 3220 Human Pathophysiology

BIOL 3550 Human Physiology

BIOL 4200 Medical Microbiology

BIOL 4460 Evolutionary Genetics

BIOL 4440 Molecular Genetics

2. Cognates

Chemistry Courses

CHEM 1000 Foundations of Chemistry
CHEM 1001 Foundations of Chemistry Lab
CHEM 1100 Foundations of Analytical Chemistry
CHEM 2300 Foundations of Organic Chemistry

Physics Courses:

PHYS 2110 College Physics I

Mathematics Courses:

MATH 1050 Pre-calculus or Equivalent

Additional Requirements for some schools or professions*

CHEM 1600

CHEM 3300/3301

CHEM 3310/3311

CHEM 2400

MATH 2510 or 2010

MATH 2520 or 2020

PHYS 2120

*Contact your school of interest or look them up on the internet to determine if you need these additional courses