Bachelor of Science in Biology and Doctor of Osteopathic Medicine Articulation

Requirements (116-121 units)

Total units required for graduation: 186

An articulation program that guarantees admission to the Doctor of Osteopathic Medicine Program at Western University of Health Sciences is available on a competitive basis to a limited number of students. Biology majors may apply for admission to the program after completing BIOL 200, BIOL 201 and BIOL 202 at CSUSB. Applicants will be screened by a joint committee from CSUSB and Western University of Health Sciences, and up to four students will be admitted annually. Candidates of the program who maintain a minimum grade point average of 3.3 in the required courses for the major, take the Medical College Admission Test (MCAT), and complete the specified course work will:

1. satisfy the requirements for the B.S. in Biology and
2. have a position reserved for them in the Doctor of Osteopathic Medicine program at Western University of Health Sciences for the year following completion of the B.S. degree. Additional information regarding application and admission to the program is available in the Biology Department Office.

Students majoring in Biology may repeat an upper-division Biology course no more than once. Failing any two upper-division Biology courses disqualifies the student from continuation as a Biology major.

Requirements for the B.S. in Biology and Doctor of Osteopathic Medicine Articulation Program (Program Code: BPMD)

Lower-division courses (56-61)

BIOL 200  Biology of the Cell  5
BIOL 201  Biology of Organisms  5
BIOL 202  Biology of Populations  5
CHEM 215  General Chemistry I: Atomic Structure and Chemical Bonding  6

CHEM 216  General Chemistry II: Principles of Chemical Reactions  6

Organic Chemistry

A minimum of twelve units, chosen from Group A or B below:  12-15

Group A:

CHEM 221A  Organic Chemistry I Lecture
CHEM 221B  Organic Chemistry I Lab
CHEM 222A  Organic Chemistry II Lecture
CHEM 222B  Organic Chemistry II Lab
CHEM 223A  Organic Chemistry III Lecture
CHEM 223B  Organic Chemistry III Lab

Group B:

CHEM 321  Principles of Organic Chemistry I
CHEM 322  Principles of Organic Chemistry II
CHEM 323  Principles of Organic Chemistry III
MATH 192  Methods of Calculus  4
or MATH 211  Basic Concepts of Calculus

A minimum of thirteen units, chosen from Group A or B below:  13-15

Group A:

PHYS 121  Basic Concepts of Physics I
PHYS 122  Basic Concepts of Physics II
PHYS 123  Basic Concepts of Physics III

Group B:

PHYS 221  General Physics I
PHYS 222  General Physics II
PHYS 223  General Physics III

Upper-division requirements (60)

BIOl 300  Cell Physiology  5
BIOl 320  Microorganisms  6
or BIOL 420  Medical Microbiology
BIOl 323  Human Anatomy for Biology Majors  6
BIOl 324  Human Physiology for Biology Majors  6
BIOl 354  Biology of Higher Plants  6
BIOl 400  Molecular Biology  5
BIOl 423  Genetics  5
BIOl 424  Comparative Animal Physiology  6
BIOl 450  Ecology  5
or BIOL 455  Marine Biology and Ecology
CHEM 436A  Biochemistry I  4
CHEM 437A  Biochemistry II  3
CHEM 438A  Biochemistry III  3

Other courses which may be used for preparation for the program include:

BIOl 342  Biology of Chordates
BIOl 371  Parasitology
BIOl 380  Medical and Economic Botany
BIOl 572  Virology
BIOl 573  Immunology
BIOl 576  Endocrinology
BIOl 580  Neurobiology

Total Units  116-121