BIOLOGICAL SCIENCES MAJOR (BA/BS, no concentration)

GENERAL STRATEGIES

- Start your chem sequence immediately and do not stop until completed
- Take pre-requisites first (⟹ indicates prereq)
- Take science and GE together or you will run out of GE and have all science courses

General Ed. Reqs.
See Academic Advising Center (Lassen Hall)

Area A (9)
Eng 1A or 2
Communication
Critical Thinking

Area B
satisfied by other
math and science reqs

Area C (12)
arts and humanities

Area D (15)
individual and society

Area E (3)
personal development

Required Biology Courses

Lower Division Core (10 units)

BIO 1: Biodiversity, Evolution and Ecology (5)
⇩
BIO 2: Cells, Molecules and Genes (5)

Upper Division Electives (UDE)

BA >10 or 11 UDE units***
with ≥ 1 plant course
and ≥ 1 animal course

BS = BA + 12 UDE units

Consult your advisor about
appropriate electives
Check catalog for prerequisites

***The greater number if BIO 184 was taken before F '09

If Micro taken at CC you need 4 more UDE

Upper Division Core (13-14)

BIO 160 (3)
Ecology

BIO 184 (3-4)**
Genetics

BIO 139 (4)
Microbiology

BIO 121 (3)
Cell Physiology

**3 units through S '09; 4 thereafter

Other Required Science and Math Courses

Chem 4 (3) if you are "rusty"
Chem Calculations
⇩
Chem 1A (5)
General Chem I
⇩
Chem 1B (5)
General Chem II
↙ ↘ **^Pre-health reqs**
Chem 20 (3) or *[*Chem 24 (3) and*
Organic *Org I*
⇩ ⇩
**Chem 124 (3) and *25 (3)*
Org II *Org Lab]*
↙ ↘
Chem 161 (3) *[or Chem 160A(3) and*
Biochem
⇩
*Chem 160B (3)]**

Phys 5A (4)
⇩
Phys 5B (4)

Stat 1 (3) F '02 on

Math 26A (3)
Calculus I
⇩
*[*Math 26B (3)*
*Calculus II]**

**Courses in brackets are not required for a biology degree, but may be required by graduate or professional programs*

^Chem 24, 124 & 25 required by med/dental programs

Units	UD Electives
0	Total elective units (auto summed in Excel version)

Graduation Requirements (satisfied by courses taken to meet the requirements above and other elective courses)

_____ 120 total units (includes lower div. courses [CSUS numbers 1-99 and any community college courses] + upper div. courses [CSUS numbers 100-199])
_____ 40 upper division units (from major requirements, general education, and electives)
_____ 9 upper division GE units
_____ Eng 20 or equivalent (see transfer sheet)
_____ US History and US + California Government
_____ Writing Proficiency Examination (to be taken before 70 total units are completed)
_____ Writing Intensive (Advanced Study) Course (taken after passing WPE)
_____ Race and Ethnicity Course
_____ Foreign Language Proficiency: passing a test, or a 2nd sem. college course of one language, or 3 yrs. of one language in high school