

**NOTE:** This document is intended as a compact display of courses and other curricular requirements. The Degree Progress Report must be used to track students' progress in all degree requirements, throughout their Cal Poly career.

\* = Required in Major/Support; also satisfies GE.

Note: No Major or Support courses may be taken Credit/No Credit.

<b>MAJOR COURSES (69)</b>	Units
BIO 160 Diversity & Hist of Life	4
BIO 161 Cell & Molecular Bio (B2&B4)*	4
BIO 263 Ecology & Evolution	4
BIO 351 Principles of Genetics	5
BIO 426 Immunology	4
BIO 452 Cell Biology	4
MCRO 224 Gen Microbio I	5
MCRO 225 Gen Microbio II	5
MCRO 402 Gen Virology	4
MCRO 423 Medical Microbiology	5
MCRO 424 Microbial Physiology	5
BIO 461 or BIO 462	2
<sup>1</sup> Approved electives (see reverse) ..... Maximum of 4 units from any combination of BIO 400, 450, 462, and 463. At least 10 units must be upper-division (300-400 level).	18

**<sup>2</sup>SUPPORT COURSES (47)**

CHEM 127 General Chemistry I (B3)* .....	4
CHEM 128 General Chemistry II .....	4
CHEM 129 General Chemistry III.....	4
CHEM 316 Intro Organic Chemistry I .....	5
CHEM 317 Intro Organic Chemistry II.....	5
<sup>3</sup> CHEM 371 Biochemical Principles.....	5
MATH 161 Calc for Life Sci I (B1)* .....	4
PHYS 121 College Physics I .....	4
PHYS 122 College Physics II.....	4
PHYS 123 College Physics III.....	4
STAT 218 Appl Stats-Life Sci (B1)* .....	4

**OTHER DEGREE REQUIREMENTS:**

- Cal Poly, Higher Ed, and Major GPA must all be at least 2.00

All students must complete:

- United States Cultural Pluralism Requirement
- Graduation Writing Requirement
- 60 units Upper Division (any 300-400 level classes)
- Upper Division units in the Major: 27
- Residency Requirements: See Degree Progress Report for details

<b>GENERAL EDUCATION (GE)</b>	<b>56</b>
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72 units required, 16 of which are listed in Major/Support.  
→Minimum of 12 units required at the 300 level.

<b>Area A Communication</b>	<b>12</b>
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A1 ENGL 133/134 .....	4
A2 COMS 101/102 .....	4
A3 Reason, Argu, & Writ .....	4

<b>Area B Science &amp; Mathematics (no add'l units req'd)</b>	
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\*16 units are listed in Major/Support

<b>Area C Arts and Humanities</b>	<b>20</b>
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C1 Literature .....	4
C2 Philosophy: PHIL 230/231 .....	4
C3 Fine/Performing Arts .....	4
C4 Upper-division elective .....	4
C1-C4 elective.....	4

<b>Area D/E Society and the Individual</b>	<b>20</b>
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D1 Amer. Experience (40404) .....	4
D2 Political Economy .....	4
D3 Comparative Social Institutions .....	4
D4 Self Development (CSU Area E) .....	4
D5 Upper-division elective .....	4

<b>Area F Technology (upper div) .....</b>	<b>4</b>
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<b>Add'l GE Units (if needed) .....</b>	

<b>FREE ELECTIVES .....</b>	<b>8</b>
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- <sup>1</sup> Consultation with advisor is recommended prior to selecting approved electives; bear in mind your selections may impact pursuit of post-baccalaureate studies and/or goals.
- <sup>2</sup> Students planning to attend graduate or professional schools are strongly advised to meet with their advisors to ensure that they meet necessary prerequisites for entry into these programs. Additional courses in math and chemistry may be necessary.
- <sup>3</sup> CHEM 313 may be substituted, with advisor approval, for students not planning to pursue graduate school or a health professions career.

## **APPROVED ELECTIVES**

*A maximum of 4 units from any combination of BIO 400, 450, 462 and 463. At least 10 units must be upper division (300-400 level).*

### *Biotechnology*

ASCI 403;  
BIO/CHEM 375, 441, 476;  
BOT/HCS 450;  
BRAE 448;  
CHEM 331, 372, 373, 474, 478;  
MCRO 433;  
SCM 201

### *Food Microbiology*

DSCI 402, 434, 444;  
FSN 230, 275, 335, 341, 364, 368, 374, 474;  
MCRO 421

### *Medical and Public Health Microbiology*

ASCI 203, 312, 321, 438, 440;  
BIO 162, 432, 433;  
CHEM 331, 349, 377, 477;  
KINE 301;  
MCRO 320, 342;  
ZOO 425, 428

### *Microbial Ecology and Evolution*

BIO 325, 414, 443;  
CHEM 341;  
ENVE 434;  
MCRO 436;  
SS 422

### *Other Electives for Microbiology Majors*

BIO 361, 400, 434, 450, 462, 463;  
BOT 323;  
CHEM 318, 319, 419, 472;  
MATH 151, 162;  
PPSC 311, 441;  
SCM 451;  
STAT 313, 419, 421;  
ZOO 335, 336, 436