BIOLOGY

CAREER INFORMATION

Biology is the study of life and covers all aspects of the structure, function, development, and behavior of microorganisms, plants, and animals. It includes the interrelationships of all living organisms to themselves and to the environment. Educational studies should include biology, chemistry, physics, mathematics, computer science, and languages. Most people working in the field of biology start with a Bachelor of Science degree, but masters or doctoral degrees are usually required for advanced positions, independent research jobs and teaching posts. Most students of biology specialize in a particular area such as aquatics, biochemistry, botany, physiology, zoology or ecology. Other employment opportunities available for biology majors are high school biology teacher, college and university faculty, engineering technician, science technician, and agricultural scientist.

GENERAL INFORMATION

Not all universities with this major are listed below. The lower division core preparation is listed for universities with which LBCC has established articulation agreements. The first course listed is the LBCC course; the course in parentheses immediately after is the university equivalent. It is generally recommended to take as many lower-division major courses as possible prior to transfer. Please check www.assist.org for the most current articulation information and information regarding minimum grade for each course, impacted major recommendations, application procedures, etc. Moreover, you must see a counselor to develop an accurate educational plan to ensure your competitiveness for admissions for your school(s) of choice. To thoroughly understand admissions and general education requirements please check the catalog of the transfer university. CSU/UC admissions and general education requirements are outlined on a separate curriculum guide.

*** Schools are listed in alphabetical order ***

CAL POLY POMONA

- **B.S. – Biology**
  Bio 1B (Bot 124 & 124L or Zoo 138 & 138L), Bio 2 (Mic 201 & 201L), Bio 11 (Bio 201); Chem 1A (Chm 121 & 121L & 122L), 1B (122 & 123 & 123L); Phys 2A & 2B (Phy 121 & 122 & 123 & 121L & 122L & 123L); Stat 1 or 1H (Sta 120)

- **B.S. – Biotechnology**
  Bio 1B (Bot 124 & 124L or Zoo 138 & 138L), Bio 2 (Mic 201 & 201L); Chem 1A (Chm 121 & 121L & 122L), 1B (122 & 123 & 123L); Phys 2A & 2B (Phy 121 & 122 & 123 & 121L & 122L & 123L), Stat 1 or 1H (Sta 120)

- **B.S. – Botany**
  Bio 1B (Bot 124 & 124L or Zoo 138 & 138L), Bio 2 (Mic 201 & 201L); Chem 1A (Chm 121 & 121L & 122L), 1B (122 & 123 & 123L); Phys 2A & 2B (Phy 121 & 122 & 123 & 121L & 122L & 123L)
Cal Poly Pomona (continued)

- **B.S. – Microbiology**
  Anat 1 or 1H (Zoo 234 & 234L), Bio 1B (Bot 124 & 124L or Zoo 138 & 138L), Bio 2 (Mic 201 & 201L); Physi 1 (Zoo 235 & 235L); Chem 1A (Chm 121 & 121L & 122L), 1B (122 & 123 & 123L); Phys 2A & 2B (Phy 121 & 122 & 123 & 121L & 122L & 123L)

- **B.S. – Zoology**
  Bio 1B (Bot 124 & 124L or Zoo 138 & 138L), Bio 2 (Mic 201 & 201L); Chem 1A (Chm 121 & 121L & 122L), 1B (122 & 123 & 123L); Phys 2A & 2B (Phy 121 & 122 & 123 & 121L & 122L & 123L), Stat 1 or 1H (Sta 120)

**CAL POLY SAN LUIS OBISPO**

- **B.S. - Biological Sciences**
  Concentrations: Anatomy & Physiology, Biology.
  Bio 1A & 1B (Bio 151 & 152 & 153), Bio 2 (Mcro 221 or 224), Bio 5 (Bio 152); Bio 30 (Bio 227 & 228); Chem 1A & 1B (Chem 124 & 125 or Chem 127 & 128 & 129); 12A (216), 2B (217); CBIS 6 (Csc 110); Math 50 (Math 120); Phys 2A & 2B (Phy 121 & 122 & 123); Stat 1 or 1H (Stat 211 or 217 or 218 or 221 or 251)

- **B.S. – Ecology & Systematic Biology**
  Bio 1A & 1B (Bio 151 & 152 & 153), Bio 2 (Mcro 221 or 224); Chem 1A & 1B (Chem 124 & 125 or Chem 127 & 128 & 129); CBIS 6 (Csc 110); Math 50 (Math 120); Stat 1 or 1H (Stat 211 or 217 or 218 or 221 or 251)
  (No LBCC equivalent to the following Cal Poly SLO course: Phys 2A)

- **B.S. – Microbiology**
  Bio 1A & 1B (Bio 151 & 152 & 153); Bio 2 (Mcro 221 or 224); Chem 1A & 1B (Chem 124 & 125 or Chem 127 & 128 & 129); CBIS 6 (Csc 110); Math 50 (Math 120); Phys 2A & 2B (Phy 121 & 122 & 123); Stat 1 or 1H (Stat 211 or 217 or 218 or 221 or 251)

**CSU CHICO**

- **B.S. - Biological Sciences with an emphasis in General Biology:**
  Bio 1A (Biol 6A), 1B (6B), 2 (11) or 5 (9); Chem 1A (Chem 37), 1B (38), 12A (70); Phys 2A & 2B (Phys 2A & 2B)

**CSU DOMINGUEZ HILLS**

- **B.A. – Biology**
  Bio 1A (Bio 120), 1B (122); Chem 1A (Che 110), 1B (112); Stat 1 or 1H (Mat 131); Phys 2A (Phy 120), 2B (122)

- **B.S. – Biology**
  Bio 1A (Bio 120), 1B (122); Chem 1A (Che 110), 1B (112); Stat 1 or 1H (Mat 131); Math 47 (Mat 171) or 60 (191); Phys 2A (Phy 120) & 2B (122) or Phys 3A (Phy 130) & 3B (132)

SEE NEXT PAGE FOR ADDITIONAL REQUIREMENTS
CSU FRESNO

- B.S. – Biology
  Options: Ecology; General Biology; Molecular and Cellular Biology; Physiology

  Option Requirements:
  Ecology:
  Bio 1A (Biosc 1A), 1B (1B); Chem 3A (Chem 3A); Math 60 (Math 75); Phys 2A (Phys 2A)
  (No LBCC equivalents to the following CSU Fresno courses: Engr 54, Math 64)
  General Biology:
  Bio 1A (Biosc 1A), 1B (1B), Chem 3A (Chem 3A); Math 60 (Math 75); Phys 2A (Phys 2A)

  Molecular and Cellular Biology:
  Bio 1A (Biosc 1A), 1B (1B); Chem 1A & 1B (Chem 1A & 1B) or 3A (3A); Math 60 (Math 75); Phys 2A (Phys 2A), 2B (2B)

  Physiology:
  Bio 1A (Biosc 1A), 1B (1B); Chem 1A & 1B (Chem 1A & 1B) or 3A (3A); Math 60 (Math 75); Phys 2A (Phys 2A), 2B (2B)

CSU FULLERTON

- B.A. – Biological Sciences
  Bio 1A & 1B (Biol 131); Chem 1A (Chem 120A), 1B (120B); Chem 12A (Chem 301A & 302A), 12B (301B & 302B); Math 60 (Math 150A); Phys 2A (Phys 211 & 211L), 2B (212 & 212L)
  (No LBCC equivalents to the following CSUF courses: Biol 131W, 241, 261; Math 130)

CSU LONG BEACH

- B.S. – Biology
  Bio 1A (Biol 211A), 1B (211B); Chem 1A (Chem 111A), 1B (111B); Math 60 (Math 122), 70 (123);
  Phys 2A (Phys 100A), 2B (100B)

- B.S. – Biology: Biology Education Option
  Bio 1A (Biol 211A), 1B (211B), 2 (200 or 211); Chem 1A (Chem 111A), 1B (111B); Geol 1 or 1H or 2+2L (Geol 102 & 104); Math 60 (Math 122); Phys 2A (Phys 100A), 2B (100B)

- B.S. – Biology: Botany Option
  Bio 1A (Biol 211A), 1B (211B); Chem 1A (Chem 111A), 1B (111B); Math 60 (Math 122), 70 (123);
  Phys 2A (Phys 100A), 2B (100B)

- B.S. Biology – Ecology & Environmental Biology
  Bio 1A (Biol 211A), 1B (211B); Chem 1A (Chem 111A), 1B (111B); Geol 1 or 1H or 2+2L (Geol 102 & 104); Math 60 (Math 122), 70 (123); Phys 2A (Phys 100A), 2B (100B)

SEE REVERSE SIDE FOR ADDITIONAL REQUIREMENTS
CSU Long Beach (continued)

**B.S. - Biology**

**Options:** Biology Education; Botany; Ecology and Environmental Biology; Physiology; Zoology; Cell and Molecular Biology

**Option Requirements:**

**Biology Education**
Astr 1 (Astr 100); Bio 1A (Biol 211A), 1B (211B) 2 (200 or 211); Chem 1A (Chem 111A), 1B (111B); Geol 2 (Geol 102), 2L (104), (160); Math 60 (Math 122); Phys 2A (Phys 100A), 2B (100B)
(No LBCC equivalents to the following CSULB courses: Biol 260; Geol 160)

**Botany**
Bio 1A (Biol 211A), 1B (211B); Chem 1A (Chem 111A), 1B (111B); Math 60 (Math 122), 70 (123); Phys 2A (Phys 100A), 2B (100B)
(No LBCC equivalents to the following CSULB course: Biol 260)

**Ecology and Environmental Biology**
Bio 1A (Biol 211A), 1B (211B); Chem 1A (111A), 1B (111B); Geol 2 (Geol 102), 2L (104) or 2F (105)
(No LBCC equivalents to the following CSULB course: Biol 260)

**Physiology**
Bio 1A (Biol 211A), 1B (211B); Chem 1A (Biol 211A), 1B (111B); Math 60 (Math 122), 70 (123); Phys 2A (Phys 100A), 2B (100B)
(No LBCC equivalents to the following CSULB course: Biol 260)

**Zoology**
Bio 1A (Biol 211A), 1B (211B); Chem 1A, (Chem 111A) 1B (111B); Geol 1 or 1H or 2+2L (Geol 102 & 104) or Bio 2 (Micro 211); Math 60 (Math 122), 70 (123); Phys 2A (Phys 100A), 2B (100B)
(No LBCC equivalents to the following CSULB course: Biol 260)

**Cell and Molecular Biology**
Bio 1A (Biol 211A), 1B (211B), 2 (Mirc 211); Chem 1A (Chem 111A), 1B (111B); Math 60 (Math 122), 70 (123); Phys 2A (Phys 100A), 2B (100B)
(No LBCC equivalents to the following CSULB course: Biol 260)

- **B.S. - Marine Biology**
  Bio 1A (Biol 211A), 1B (211B), 20 or 20H (153); Chem 1A (Chem 111A), 1B (111B); Math 60 (Math 122) 70 (123); Phys 2A (Phys 100A), 2B (100B)
  (No LBCC equivalents to the following CSULB course: Biol 260)

- **B.S. – Microbiology**
  Bio 1A (Biol 211A), 1B (211B), 2 (Micro 211); Chem 1A (Chem 111A), 1B (111B); Math 60 (Math 122); Phys 2A (Phys 100A), 2B (100B)
  (No LBCC equivalents to the following CSULB courses: Biol 260, Chem 251)

**B.S. – Honors in Biology, Marine Biology, or Microbiology** (details in CSULB catalog)

SEE NEXT PAGE FOR ADDITIONAL REQUIREMENTS
CSU LOS ANGELES

- **B.S. – Biology**
  Bio 1A & 1B (Biol 101 & 102 & 103); Chem 1A & 1B (Chem 101 & 102 & 103); Math 60 (Math 206); Phys 2A & 2B (Phys 101 & 102 & 103)

- **B.S. – Microbiology**
  Bio 1A & 1B (Biol 101 & 102 & 103); Chem 1A & 1B (Chem 101 & 102 & 103); Math 40 & 50 (Math 102 & 103); Phys 2A & 2B (Phys 101 & 102 & 103)

CSU SACRAMENTO

- **B.A. – Biological Sciences**
  Bio 1A & 1B (Bio 10 & 11 & 12); Chem 1A (Chem 1A), 1B (1B); Math 50 (Math 29) or 60 (30); Phys 2A (Phys 5A), 2B (5B)
  (No LBCC equivalents to the following CSUS courses: Chem 20, 31; Math 26A; Bio 22, 131)

- **B.S. – Biological Sciences**
  Bio 1A & 1B (Bio 10 & 11 & 12); Chem 1A (Chem 1A), 1B (1B); Math 50 (Math 29) or 60 (30); Phys 2A (Phys 5A), 2B (5B)
  **Recommended:** Bio 2 (Bio 139); Stat 1 or 1H (Stat 1)

CSU SAN BERNARDINO

- **B.A. - Biology**
  Bio 1A & 1B (Biol 200 & 201 & 202); Chem 1A (Chem 215), 1B (216), 12A & 12B (221A & 222A & 223A); Math 60 (Math 211); Phys 3A (Phys 221), 3B (222)
  (No LBCC equivalents to the following CSUSB courses: Math 192; Phys 121, 122, 123, 223)

- **B.S - Biology**
  Bio 1A & 1B (Biol 200 & 201 & 202); Chem 1A (Chem 215), 1B (216), 12A & 12B (221A & 221B & 222A & 222B & 223A & 223B); Math 60 (Math 211); Phys 3A (Phys 221), 3B (222)
  (No LBCC equivalents to the following CSUSB courses: Chem 245; Math 192; Phys 121, 122, 123, 223)

HUMBOLDT STATE

- **B.S. – Biology**
  **Options:** Environmental; Microbiology; Natural History; General/Special; Marine Biology; Biodiversity; Cellular/Molecular

SEE REVERSE SIDE FOR ADDITIONAL REQUIREMENTS

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Humboldt State (continued)

Option Requirements:
Environmental:
Bio 1A & 1B (Biol 105); Chem 1A (Chem 109), 1B (110); Math 60 (Math 105); Phys 2A (Phyx 106)
(No LBCC equivalents to the following Humboldt State courses: Biom 109; Phyx 118)

Microbiology:
Bio 1A & 1B (Biol 105); Chem 1A (Chem 109), 1B (110); Math 60 (Math 105); Phys 2A (Phyx 106)
(No LBCC equivalents to the following Humboldt State courses: Biom 109; Phyx 118)

Natural History:
Bio 1A & 1B (Biol 105); Chem 1A (Chem 109); Math 60 (Math 105); Phys 2A (Phyx 106)
(No LBCC equivalents to the following Humboldt State courses: Biom 109; Phyx 118)

General/Special:
Bio 1A & 1B (Biol 105); Chem 1A (Chem 109); Math 60 (Math 105); Phys 2A (Phyx 106)
(No LBCC equivalents to the following Humboldt State courses: Biom 109; Phyx 118)

Marine Biology:
Bio 1A & 1B (Biol 105); Chem 1A (Chem 109); Math 60 (Math 105); Phys 2A (Phyx 106)
(No LBCC equivalents to the following Humboldt State courses: Biom 109; OCN 109; Phyx 118)

Biodiversity:
Bio 1A & 1B (Biol 105); Chem 1A (Chem 109); Geol 1 or 1H or 2 + 2L (Geol 109); Math 60 (Math 105); Phys 2A (Phyx 106)
(No LBCC equivalents to the following Humboldt State courses: Biom 109; Phyx 118)

Cellular/Molecular Option:
Bio 1A & 1B (Biol 105); Chem 1A (Chem 109), 1B (110); Math 60 (Math 105); Phys 2A (Phyx 106), 2B (107)
(No LBCC equivalent to the following Humboldt State course: Biom 109)

SAN DIEGO STATE

- **B.S. – Liberal Arts & Sciences: Biology Major**
  Bio 1A & 1B (Biol 201 & 202); Chem 1A (Chem 200), 1B (201); 12A (130); Phys 2A (Phys 180A & 182A), 2B (180B & 182B)
  One level 3 foreign language course (eg., Chin 3, Fren 3, Ger 3, etc.)
  (No LBCC equivalent to the following SDSU course: Math 60)

- **B.S. – Liberal Arts & Sciences: Biology Major**
  **Emphases:** Cellular & Molecular Biology; Ecology; Evolution & Systematics; Marine Biology; Zoology
Emphases Requirements:

**Cellular & Molecular Biology**
Bi 1A & 1B (Biol 201 & 202); Chem 1A (Chem 200), 1B (201), 12A (130); Phys 2A (Phys 180A & 182A), 2B (180B & 182B)
(No LBCC equivalent to the following SDSU course: Math 60)

**Ecology**
Bi 1A & 1B (Biol 201 & 202); Chem 1A (Chem 200), 1B (201), 12A (130); CBIS 9 (CS 107); Phys 2A (Phys 180A & 182A), 2B (180B & 182B)
(No LBCC equivalent to the following SDSU course: Math 60)

**Evolution & Systematics**
Bi 1A & 1B (Biol 201 & 202); Chem 1A (Chem 200), 1B (201), 12A (130); Phys 2A (Phys 180A & 182A), 2B (180B & 182B)
(No LBCC equivalent to the following SDSU course: Math 60)

**Marine Biology**
Bi 1A & 1B (Biol 201 & 202); Chem 1A (Chem 200), 1B (201), 12A (130); Phys 2A (Phys 180A & 182A), 2B (180B & 182B)
(No LBCC equivalent to the following SDSU course: Math 60)

**Zoology**
Bi 1A & 1B (Biol 201 & 202); Chem 1A (Chem 200), 1B (201), 12A (130); Phys 2A (Phys 180A & 182A), 2B (180B & 182B)
(No LBCC equivalent to the following SDSU course: Math 60)

• **B.A. – Liberal Arts & Sciences: Microbiology Major**
Bi 1A & 1B (Biol 201 & 202); Chem 1A (Chem 200), 1B (201), 12A (130); Phys 2A (Phys 180A & 182A), 2B (180B & 182B)
One level 3 foreign language course (eg., Chin 3, Fren 3, Ger 3, etc.)
(No LBCC equivalent to the following SDSU course: Math 60)

• **B.S. – Applied Arts & Sciences: Microbiology Major**
Bi 1A & 1B (Biol 201 & 202); Chem 1A (Chem 200), 1B (201), 12A (130); Phys 2A (Phys 180A & 182A), 2B (180B & 182B)
(No LBCC equivalent to the following SDSU course: Math 60)

• **B.S. - Applied Arts & Sciences: Microbiology with Emphasis in Medical Technology and Public Health Microbiology**
Bi 1A & 1B (Biol 201 & 202); Chem 1A (Chem 200), 1B (201), 12A (130); Phys 2A (Phys 180A & 182A), 2B (180B & 182B)
(No LBCC equivalent to the following SDSU course: Math 60)

**SAN JOSE STATE**

• **B.A. Degree - Biological Science**
Bi 1A, (Biol 1) 1B (2 or 3); Chem 1A (Chem 1A), 1B (1B); Phys 2A (Phys 2A), 2B (2B)
(No LBCC equivalent to the following SJSU course: Biol 6)

SEE REVERSE SIDE FOR ADDITIONAL REQUIREMENTS

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San Jose State (continued)

- **B.S. Degree - Biological Science**
  
  **Concentrations:** Conservation and Organismal Biology; Entomology; Marine Biology; Microbiology; Molecular Biology; Systems Physiology

  **Concentration Requirements:**
  
  **Conservation and Organismal Biology:**
  Bio 1A (Biol 1), 1B (2 or 3); Chem 1A (Chem 1A), 1B (1B); Phys 2A (Phys 2A), 2B (2B)
  (No LBCC equivalents to the following SJSU courses: Biol 5, 6; Chem 8, 9)

  **Entomology:**
  Bio 1A (Biol 1), 1B (2 or 3); Chem 1A (Chem 1A), 1B (1B); Phys 2A (Phys 2A), 2B (2B)
  (No LBCC equivalents to the following SJSU courses: Biol 5, 6)

  **Marine Biology:**
  Bio 1A (Biol 1), 1B (2 or 3); Chem 1A (Chem 1A), 1B (1B); Phys 2A (Phys 2A), 2B (2B)
  (No LBCC equivalents to the following SJSU courses: Biol 5, 6; Chem 55)

  **Microbiology:**
  Bio 1A (Biol 1), 1B (2 or 3); Chem 1A (Chem 1A), 1B (1B); Math 60 (Math 30); Phys 2A (Phys 2A), 2B (2B)
  (No LBCC equivalents to the following SJSU courses: Biol 5, 6; Chem 55)

  **Molecular Biology:**
  Bio 1A (Biol 1), 1B (2 or 3); Chem 1A (Chem 1A), 1B (1B); Math 60 (Math 30); Phys 2A (Phys 2A), 2B (2B)
  (No LBCC equivalents to the following SJSU courses: Biol 5, 6; Chem 55)

  **Systems Physiology:**
  Bio 1A (Biol 1), 1B (2 or 3); Chem 1A (Chem 1A), 1B (1B); Math 60 (Math 30); Phys 2A (Phys 2A), 2B (2B)
  (No LBCC equivalents to the following SJSU courses: Biol 5, 6; Chem 55)

**UC BERKELEY**

- **A.B.- Integrative Biology**
  
  This major is offered by the College of Letters and Science (L&S). You must complete either: (1) the L&S Essential Skills Requirements (Reading & Comp, Foreign Language, and Quantitative Reasoning) or (2) IGETC **by the end of the spring term that precedes fall enrollment at Berkeley.**

  **Requirements:** Chem 1A (Chem 1A), 1B (1B); Math 60 (Math 1A), 70 (1B); Phys 3A (Physics 7A), 3B (7B), 3C (7C)
  (No LBCC equivalents to the following UC Berkeley courses: Chem 112A, 112B)

SEE NEXT PAGE FOR ADDITIONAL REQUIREMENTS
UC DAVIS

- **A.B. – Biological Sciences**
  Bio 1A (Biolsci 1A), 1B (1B); Chem 1A & 1B (Chem 2A & 2B), 12A & 12B (118A & 118B & 118C);
  Phys 2A & 2B (Physics 7A & 7B & 7C); Stat 1 or 1H (Statist 13)
  
  **Recommended courses:** Math 60 (Math 16A), 70 (16B)
  (No LBCC equivalents to the following UC Davis courses: Chem 8A, 8B; Physics 1A, 1B; Statist 32)

- **B.S. – Biological Sciences**
  Bio 1A (Biolsci 1A), 1B (1B); Chem 1A & 1B (Chem 2A & 2B & 2C), 12A & 12B (118A & 118B & 118C); Math 60 (Math 16A), 70 (16B); Phys 2A & 2B (Physics 7A & 7B & 7C); Stat 1 or 1H (Statist 13)

UC IRVINE

- **B.S. – Biological Sciences**
  Bio 1A & 1B (Bio Sci 94 & 100L or Bio Sci 96); Chem 1A & 1B (Chem 1A & 1B & 1LB & 1C & 1LC), 12A + 12B (51A & 51LA & 51B & 51LB & 51C); Math 60 & 70 (Math 2A & 2B); Stat 1 or 1H (Math 7); Phys 3A & 3B & 3C (Physics 3A & 3B & 3LB & 3C & 3LC)

UC LOS ANGELES

- **B.S. - Biology**
  Bio 1A & 1B (Lifesci 1); Chem 1A & 1B (Chem 20A & 20B & 20L & 30AL), 12A & 12B (30A & 30B & 30LB); Math 60 & 70 (Math 31A & 31B & 32A) Phys 3A & 3B & 3C (Physics 1A & 1B & 1C & 4AL & 4BL); Stat 1 or 1H (Obee M22)
  (No LBCC equivalents to the following UCLA courses: Lifesci 3, 4; Math 3A, 3B, 3C; Physics 6A, 6B, 6C)

UC RIVERSIDE (IGETC Not Acceptable!)

- **B.A. - Biology**
  Bio 1A (Biol 5A & 5AL), 1B (5B); Chem 1A & 1B (Chem 1A & 1B & 1C), 12A & 12B (one year of Organic Chemistry); Math 60 & 70 (Math 9A & 9B); Phys 3A & 3B (Phys 40A & 40B & 40C); 16 UC-transferable units in one foreign language

- **B.S. - Biology**
  Bio 1A (Biol 5A & 5AL), 1B (5B); Chem 1A & 1B (Chem 1A & 1B & 1C), 12A & 12B (one year of Organic Chemistry); Math 60 & 70 (Math 9A & 9B); Phys 3A & 3B (Phys 40A & 40B & 40C)

- **B.S. - Biological Sciences**
  Tracks: Biology; Cell/Molecular & Developmental Biology; Conservation Biology; Entomology; Environmental Toxicology; Evolution & Ecology; Ecology, Microbiology & Plant Biology

SEE REVERSE SIDE FOR ADDITIONAL REQUIREMENTS

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Track Requirements:

Biology
Bio 1A (Biol 5A & 5AL), 1B (5B); Chem 1A & 1B (Chem 1A & 1B & 1C), 12A & 12B (one year of Organic Chemistry); Math 60 & 70 (Math 9A & 9B); Phys 3A & 3B (Phys 40A & 40B & 40C)
Two (2) courses from the following: CBIS 11 (CS 10), 12 (12 or 14), or 37 (61)

Cell/Molecular & Developmental Biology
Bio 1A (Biol 5A & 5AL), 1B (5B); Chem 1A & 1B (Chem 1A & 1B & 1C), 12A & 12B (one year of Organic Chemistry); Math 60 & 70 (Math 9A & 9B); Phys 3A & 3B (Phys 40A & 40B & 40C)

Conservation Biology
Bio 1A (Biol 5A & 5AL), 1B (5B); Chem 1A & 1B (Chem 1A & 1B & 1C), 12A & 12B (one year of Organic Chemistry); Math 60 & 70 (Math 9A & 9B); Phys 3A & 3B (Phys 40A & 40B & 40C)
(No LBCC equivalents to the following UCR courses: Geo 6; Ensc 6)

Entomology
Bio 1A (Biol 5A & 5AL), 1B (5B); Chem 1A & 1B (Chem 1A & 1B & 1C), 12A & 12B (one year of Organic Chemistry); Math 60 & 70 (Math 9A & 9B); Phys 3A & 3B (Phys 40A & 40B & 40C)

Environmental Toxicology
Bio 1A (Biol 5A & 5AL), 1B (5B); Chem 1A & 1B (Chem 1A & 1B & 1C), 12A & 12B (one year of Organic Chemistry); Math 60 & 70 (Math 9A & 9B); Phys 3A & 3B (Phys 40A & 40B & 40C)

Evolution & Ecology
Bio 1A (Biol 5A & 5AL), 1B (5B); Chem 1A & 1B (Chem 1A & 1B & 1C), 12A & 12B (one year of Organic Chemistry); Math 60 & 70 (Math 9A & 9B); Phys 3A & 3B (Phys 40A & 40B & 40C)

Ecology, Microbiology, and Plant Biology
Bio 1A (Biol 5A & 5AL), 1B (5B); Chem 1A & 1B (Chem 1A & 1B & 1C), 12A & 12B (one year of Organic Chemistry); Math 60 & 70 (Math 9A & 9B); Phys 3A & 3B (Phys 40A & 40B & 40C)

UC SANTA CRUZ

- **B.A. - Biology**
  Bio 1A & 1B (Biol 20B or 20C); Chem 1A (Chem 1B & 1M), 1B (1C & 1N), 12A & 12B (108A & 108L & 108B & 108M); Math 60 & 70 (Math 11A & 11B or 19A & 19B); Phys 2A & 2B (Phys 7A & 7L & 7B & 7M) or 3A & 3B & 3C (6A & 6L & 6B & 6M & 6C & 6N)
  (No LBCC equivalents to the following UCSC courses: Biol 20L; Chem 7 & 7L, 112A, 112L, 112B, 112M)

- **B.A. – Biology (Environmental Biology Concentration)**
  Bio 1A & 1B (Biol 20B or 20C); Chem 1A (Chem 1B & 1M), 1B (1C & 1N), 12A & 12B (108A & 108L & 108B & 108M); Geol 1 or 1H (Eart 10 & 10L); Math 60 & 70 (Math 11A & 11B or 19A & 19B); Phys 2A & 2B (Phys 7A & 7L & 7B & 7M) or 3A & 3B & 3C (6A & 6L & 6B & 6M & 6C & 6N); Stat 1 or 1H (Math 5)
  (No LBCC equivalents to the following UCSC courses: Chem 4A, 4L, 4B, 4M; Cmps 60G, 60N; Eart 20, 20L; Envs 25)
UC Santa Cruz (continued)

**B.S. - Biology**
Bio 1A & 1B (Biol 20B or 20C); Chem 1A (Chem 1B & 1M), 1B (1C & 1N), 12A & 12B (108A & 108L & 108B & 108M); Math 60 & 70 (Math 19A & 19B), 80 (22); Phys 3A & 3B & 3C (5A & 5L & 5B & 5M & 5C & 5N or 6A & 6L & 6B & 6M & 6C & 6N)
(No LBCC equivalents to the following UCSC courses: Biol 20L; Chem 7 & 7L, 112A, 112L, 112B, 112M)

**B.S. – Biochemistry and Molecular Biology**
Bio 1A & 1B (Biol 20B); Chem 1A (Chem 1B & 1M), 1B (1C & 1N), 12A & 12B (108A & 108L & 108B & 108M); Math 60 & 70 (Math 11A & 11B or 19A & 19B), 80 (22); Phys 3A & 3B & 3C (6A & 6L & 6B & 6M & 6C & 6N)
(No LBCC equivalents to the following UCSC courses: Biol 20L; Chem 4A, 4L, 4B, 4M)