

Biological Sciences—Major Requirements for BS Degree  
 Ecology and Evolutionary Biology Emphasis Track  
 Effective Fall 2010

University of California, Merced

Anticipated Graduation Date (ex: May 2010) \_\_\_\_\_

Full Name: \_\_\_\_\_ ID: \_\_\_\_\_ Email: \_\_\_\_\_

Phone: \_\_\_\_\_

**University Requirements**

Requirement/ Course Dept #	Course Title	Grade	Units Required	Term Completed	Substitute Approved
UC Entry Level Writing (WRI 001 or ELWR)			n/a		
American History/Institutions			n/a		
World at Home I (CORE 001)			1 course		
College Composition (WRI 010)			1 course		

**School Requirements**

World at Home II (CORE 100 or replacement)			4		
Calculus I (MATH 011)			4		
Probability & Statistics (MATH 18 or 32 or PSY 10 or ENVE 105)			4		
Introduction to Physics I (PHYS 08 or 18)			4		
Computer Science Course (CSE 020 or CSE 005 or MATH 15)			2		
General Chemistry I (CHEM 02)			4		
Lower Division Arts/Humanities Elective			4		
Lower Division Social Science Elective			4		
UD Science Writing Course (WRI 116 or course approved by NS)			4		
UD Social Science/Humanities Elective			4		

**Major/Core Requirements**

Contemporary Biology (BIO 01)			4		
Contemporary Biology Lab (BIO 01L)			1		
The Cell (BIO 110)			4		
General Chemistry II (CHEM 10)			4		
Organic Chemistry (CHEM 08)			4		
Calculus II for Bio (MATH 12)			4		
Introduction to Physics II for Bio Sciences (PHYS 019)			4		
Upper Division Non-Bio Science or Engr Course			4		

**Molecular & Cell Biology Emphasis**

Introduction to Molecular Biology (BIO 02)			4		
Introduction to Molecular Biology Lab (BIO 02L)			1		
Genetics (BIO 140)			4		
Evolution (BIO 141)			4		

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Ecology and Evolutionary Biology Emphasis Track

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Ecology (BIO 148)			4		
<b>Four Courses from Evolutionary Electives List</b>					
One Elective Course with Field Component			5		
One Course with Lab Component			5		
Two Additional Courses from List (8 units)					
			4		
			4		

**Free Electives to Meet 120 Units**


**Molecular & Cell Biology Elective List:**

- BIO 107- Physical Biochemistry
- BIO 111-Cells, Tissues, Organs
- BIO 124-Microbial Evolution
- BIO 134-Marine Sciences (F)
- BIO 142-Genome Biology (L)
- BIO 143-Biodiversity
- BIO 143F-Biodiversity and the Tree of Life Field
- BIO 144-Phylogenetics
- BIO 144L-Phylogenetics Laboratory
- BIO 146-Paleobiology
- BIO 147-Astrobiology
- BIO 149-Conservation Biology
- BIO 149F-Conservation Biology Laboratory (satisfies Field component requirement)

- BIO 153-Evolution & Development
- BIO 160-Comparative Physiology (L)
- BIO 162-Biomechanics
- BIO 163-Endocrinology
- BIO 163L-Endocrinology Laboratory
- BIO 170-Neurobiology
- BIO 170L- Neurobiology Laboratory
- BIO 180-Mathematical Modeling for Biology
- BIO 181-Introduction to Biomolecular Simulation
- BIO 182-Bioinformatics
- BIO 183-Population Genetics
- ESS 120- Introduction to Ecological and Environmental Microbiology
- ESS 124-Terrestrial Ecosystem Ecology
- ESS128-Theoretical Ecology

**Academic Advisor for Biology Students** (last name A-M):

Jesus Jimenez ([jjimenez22@ucmerced.edu](mailto:jjimenez22@ucmerced.edu))  
 Science & Engineering 370

**Academic Advisor for Biology** (last name N-Z) & **Pre-Health**

Erica Robbins ([erobbins2@ucmerced.edu](mailto:erobbins2@ucmerced.edu))  
 Science & Engineering 370

**Notes:** \_\_\_\_\_  
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**Student Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Advisor Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

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