

Biological Sciences—Major Requirements for BS Degree

Developmental 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		

**Developmental 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		

This guide is an unofficial document intended to be used for advising/course planning only. This document cannot be used to supersede or waive requirements listed in the UCM Catalog unless approved by your advisor. **Please note that all courses required for the major must be completed with a C- or better; including pre-requisites to major requirements.**

Biological Sciences—Major Requirements for BS Degree

Developmental Biology Emphasis Track

Effective Fall 2010

University of California, Merced

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

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

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

Embryos, Genes and Development (BIO 150)			4		
Quantitative Biology Elective: Chose One ( Bio 104, 105, 142,175,180,181,182 or 183)			4		
One Course from elective list below with Lab			5		
One Course from elective list below (w/o lab)			4		
One Course from elective list below (w/o lab)			4		

**Free Electives to Meet 120 Units**


**Developmental Biology Elective List:**

- BIO 101 – Biochemistry I
- BIO 102 – Advanced Biochemistry and Molecular Biology
- BIO 104 – Biophysics
- BIO 104L – Biophysics Laboratory
- BIO 107-Physical Biochemistry
- BIO 111 – Cells, Tissues and Organs‡
- BIO 120 – General Microbiology
- BIO 120L – General Microbiology Laboratory
- BIO 124 – Microbial Evolution
- BIO 130 – Plant Biology
- BIO 142 – Genome Biology
- BIO 151 – Molecular Immunology
- BIO 151L – Molecular Immunology Laboratory

- BIO 152 – Cancer Genetics and Tumor Biology
- BIO 153 – Evolution and Development‡
- BIO 160 – Comparative Physiology
- BIO 160L – Comparative Physiology Laboratory
- BIO 161 – Human Physiology
- BIO 163 – Endocrinology
- BIO 164 – Human Anatomy
- BIO 170 – Neurobiology
- BIO 170L – Neurobiology Lab
- BIO 180– Mathematical Modeling for Biology
- BIO 181 – Introduction to Biomolecular Simulation
- BIO 182 – Bioinformatics
- BIOE 114 – Tissue Engineering Design

**Academic Advisor for Biology Students:**

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

**Academic Advisor for Biology/Pre-Health Students**

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

**Helpful Websites:**

- NS Advising: <http://ns-advising.ucmerced.edu>
- Tutoring Assistance: <http://learning.ucmerced.edu>
- Career Services: <http://careerservices.ucmerced.edu>

**Notes:** \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Student Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

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

**Date:** \_\_\_\_\_

This guide is an unofficial document intended to be used for advising/course planning only. This document cannot be used to supersede or waive requirements listed in the UCM Catalog unless approved by your advisor. **Please note that all courses required for the major must be completed with a C- or better; including pre-requisites to major requirements.**