

Biological Sciences—Major Requirements for BS Degree
 Microbiology & Immunology 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		

Microbiology & Immunology Emphasis

Introduction to Molecular Biology (BIO 02)			4		
Introduction to Molecular Biology Lab (BIO 02L)			1		
Biochemistry I (BIO 101)* (pre-requisite CHEM 100)			4		
General Microbiology (BIO 120)+			4		

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Molecular Immunology (BIO 151) +			4		
+ One must be taken with corresponding Lab BIO 120 Lab or BIO 151 Lab			1		
General Virology (BIO 127)			4		
Upper Division Course from Elective List‡			4		
Upper Division Course from Elective List			4		

Free Electives to Meet 120 Units

Microbiology & Immunology Elective List:

† One must be taken with the corresponding Laboratory component 1 unit
 ‡ Recommended Elective Courses: at least one of the MBI Elective Courses must be from this group.

- BIO 102 – Advanced Molecular Biology and Biochemistry
- BIO 105 – Enzymology
- BIO 107- Physical Biochemistry
- BIO 111 – Cells, Tissues and Organs
- BIO 122 – Microbial Pathogenesis‡
- BIO 123 – Human Parasitology‡
- BIO 124 – Microbial Evolution
- BIO 125 – Emerging Public Health Threats‡
- BIO 140 – Genetics

- BIO 141 - Evolution
- BIO 142 – Genome Biology
- BIO 150 – Embryos, Genes and Development
- BIO 152 – Cancer Genetics and Tumor Biology‡
- BIO 154 – Developmental Immunology‡
- BIO 170 – Neurobiology
- BIO 180– Mathematical Modeling for Biology
- BIO 181 – Introduction to Biomolecular Simulation
- BIO 182 – Bioinformatics

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

Jesus Jimenez (jjimenez22@ucmerced.edu)
 Science & Engineering 370

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

Erica Robbins (erobbins2@ucmerced.edu)
 Science & Engineering 370

Notes: _____

Student Signature: _____ **Date:** _____

Advisor Signature: _____ **Date:** _____

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