

Biological Sciences—Major Requirements for BS Degree

Human 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 018)			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) (pre-requisite BIO 101)			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		

**Human Biology Emphasis**

Genetics (BIO 140)			4		
Biochemistry I (BIO 101) * (pre-requisite CHEM 100)			4		
Evolution (BIO 141)			4		
Human Physiology (BIO 161)			5		

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One Cognitive Science Course (pre-requisite Cogs 1 or Psy 01)			4		
Upper Division Elective Course from List			4		
Upper Division Elective Course from List			4		
Upper Division Elective Course from List			4		

**Free Electives to Meet 120 Units**


**Human Biology Elective List:**

- |                                            |                                                           |                                                                 |
|--------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------|
| BIO 104- Biophysics                        | BIO 164- Anatomy                                          | ANTH 169- Trends in Biological Anthropology                     |
| BIO 104L- Biophysics Laboratory            | BIO 170- Neurobiology                                     | ANTH 172- Ethnohistory                                          |
| BIO 105- Enzymology                        | BIO 170L- Neurobiology Laboratory                         | *COGS 101- Mind, Brain and Computation (requires PSY or COGS 1) |
| BIO 107- Physical Biochemistry             | BIO 175- Biostatistics                                    | *COGS 103- Intro to Neural Networks (requires PSY or COGS 1)    |
| BIO 111- Cells, Tissues and Organs         | BIO 180- Mathematical Modeling for Biology                | PSY 180- Physiological Psychology                               |
| BIO 122- Microbial Pathogenesis            | BIO 182- Bioinformatics                                   | PSY 121- Cognitive Psychology                                   |
| BIO 123- Human Parasitology                | ANTH 100- History of Anthropological Thought and Practice | PSY 123- Alcohol, Drugs and Behavior                            |
| BIO 125- Emerging Public Health Threats    | ANTH 114- Social Memory                                   | PSY 130- Developmental Psychology                               |
| BIO 127- Virology                          | ANTH 120- Intro to Medical Anthropology                   | PSY 140- Clinical Psychology                                    |
| BIO 142- Genome Biology                    | ANTH 121- Ethnomedicine                                   | PSY 145- Human Sexuality                                        |
| BIO 150- Embryos, Genes and Development    | ANTH 130- Archaeology of Colonialism                      | PSY 180- Physiology Psychology                                  |
| BIO 151- Molecular Immunology              | ANTH 155- Paleodemography                                 |                                                                 |
| BIO 151L- Molecular Immunology Laboratory  | ANTH 160- Human Origins                                   |                                                                 |
| BIO 152- Cancer Genetics and Tumor Biology | ANTH 162- Growth Development and Human Evolution          |                                                                 |

**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

<b>Notes:</b> _____	
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_____	
<b>Student Signature:</b> _____	<b>Date:</b> _____
<b>Advisor Signature:</b> _____	<b>Date:</b> _____

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