

Cell/Molecular Professional Emphasis 64-70 credit min

Effective for Spring 2013

Course pre-requisites are in parentheses

C/ means concurrent enrollment allowed

(F= Fall term only, S= Spring term only, B= Both Fall and Spring terms)

Biology Core Courses (11-12 credits)

BIO 105 B Biological Concepts	(4) ___
OR	
BIO 108 F Honors: Concepts in Bio	(5) ___
BIO 323 B Intro Molecular and Cell Bio (BIO 105, CHEM 105 and/or c/enrollment in CHEM 106,OR CHEM 101, 102 w/B)	(3) ___
BIO 343 B Genetics (BIO 323)	(4) ___
BIO 349 B Ecology and Evolution (1 term gen bio)	(3) ___
BIO 491 B Senior Survey ***	(0) ___

Required Courses (21 credits)

CHEM 105 B General Chemistry I	(5) ___
CHEM 106 B General Chemistry II	(5) ___
CHEM 234 B Organic Chemistry I Lab (NS) (CHEM 106 w/C)	(1) ___
CHEM 235 B Organic Chemistry I (NS) (CHEM 106 w/C)	(4) ___
CHEM 334 B Organic Chemistry II Lab (NS)(CHEM 235 w/C)	(1) ___
CHEM 335 B Organic Chemistry II (NS) (CHEM 235 w/C)	(1-4) ___
CHEM 303 B Biochemistry: Clinical Emphases (CHEM 335)	(3) ___

MATH: As specified by COLS requirements.

Additional Required Courses (20-27 credits)

BIO 230 B Biology of Animals (NS) (BIO 105)	(4) ___
AND	
BIO 231 B Bio of Plants and Microbes (NS) (BIO 105)	(4) ___
OR	
BIO 106 B Biological Concepts-Diversity (NS)	(4) ___
AND	
BIO 349 B Ecology and Evolution (1 term gen bio)	(3) ___
AND	
BIO 372 S Advanced Molecular & Cell Bio (BIO 323, 343, CHEM 106)	(3) ___
AND (Two of the following Advanced Lab Course Combinations)	
BIO 374 F Cell/Immunology Lab (NS) (C/BIO 341 or 372)	(3) ___
OR	
BIO 389 S Principles of Biotechnology (BIO 323, 343)	(3) ___
BIO 390 S* Biotechnology Lab (NS) (BIO 309)	(2) ___
OR	
BIO 375 F Microbial Genetics (BIO 309, C/375)	(2) ___
BIO 377 F Microbial Genetics Lab (NS)	(2) ___
OR	
BIO 350 F Electron Microscopy (NS)	(4) ___

Electives (8-9 credits)

BIO 306 S Neurobiology (BIO 105)	(3) ___
BIO 315 S Developmental Biology (BIO 323)	(3) ___
BIO 321 F Mycology (NS) (1 term gen bio)	(3) ___
BIO 337 S* Plant Anatomy (NS)	(3) ___
BIO 309 B Bacteriology (NS)(1 term gen bio)	(5) ___
BIO 316 S Developmental Biology (BIO 323)	(3) ___
BIO 341 F Immunology (BIO 233, 309)	(3) ___
BIO 350 F Electron Microscopy (NS)	(4) ___
BIO 354 S Parasitology (NS)**	(3) ___
BIO 374 F Cell/Immunology Lab (NS) (C/BIO 341 or 372)	(3) ___
BIO 389 S Principles of Biotechnology (BIO 323, 343)	(3) ___
BIO 390 S* Biotechnology Lab (NS) (BIO 309)	(2) ___

*S = Spring of even years.

Approved: November 2011

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**Must also meet General Education
and Degree Requirements to earn
BS Degree.**