

Healthcare-Science Emphasis

65 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) ___

Additional Required Courses

BIO 211 B Human Anatomy (NS)	(3) ___
OR	
BIO 308 S Comparative Anatomy (NS)	(5) ___
AND	
BIO 233 B Microbial Survey (NS)(BIO 105 w/C)	(1-4) ___
OR	
BIO 309 B Bacteriology (NS)(1 term gen bio)	(5) ___
AND	
BIO 319 B General Animal Physiology (BIO 323)	(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) ___

Electives (10 credits)

BIO 300 B Internship in Biology	(3) ___
BIO 301 B Internship in Microbiology	(3) ___
BIO 303 F Intro to Epidemiology (BIO 105)	(2) ___
BIO 306 S Neurobiology (BIO 105)	(3) ___
BIO 308 S Comparative Anatomy (NS)	(5) ___
BIO 309 B Bacteriology (NS)(BIO 105)	(5) ___
BIO 310 S Biology of Gender (BIO 105, 211 OR 230 OR 308)	(3) ___
BIO 312 S Medical Bacteriology Lecture (BIO 309, 341 C/312)	(2) ___
BIO 313 S Medical Bacteriology Lab (NS) (BIO 309, 341, C/312)	(2) ___
BIO 315 S Developmental Biology (BIO 323)	(3) ___
BIO 316 S Developmental Biology (BIO 323)	(3) ___
BIO 321 F Mycology (NS) (BIO 105)	(3) ___
BIO 338 S Environmental Toxicology (BIO 105)	(2) ___
BIO 341 F Immunology (BIO 233, 309)	(3) ___
BIO 344 F Intro to Hematology (BIO341)	(3) ___
BIO 354 S Parasitology (NS)**	(3) ___
BIO 372 S Advanced Molecular & Cell Bio (BIO 323, 343, CHEM 106)	(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) ___
BIO 446 B Independent Study	(5) ___
(A max of six credits from BIO 446/456 can be counted towards a Biology or Microbiology degree.)	

One extra-departmental course from the following May be counted as an elective

CHEM 304 Biochemistry Lab (NS) (C/CHEM 303)	(1) ___
CHEM 315 Advanced Biochemistry (CHEM 303 w/C)	(3) ___
KINESIOL 348 Biomechanics (KINESIOL 122, BIO 211, C/212)	(3) ___
KINESIOL 350 Physiology of Exercise (KINESIOL 122, BIO 211, 212)	(3) ___
PSYCH 367 Psychopharmacology (6 cr of PSY)	(3) ___
PSYCH 383 Biological Psychology (PSY 101, 104 OR 110 and 1 year of laboratory bio)	(3) ___
PSYCH 384 Biological Psychology Lab (PSYCH 101, 104 OR 110 & 1 yr lab bio)	(3) ___
PSYCH 456 Related Reading	(1-3) ___

Required courses that contribute to General Education (12-13 credits)

MATH 171 B Calculus I (MA)(MATH 108 OR 104, 106 w/C)	(4) ___
PSYCH 101 General Psychology (SS)	(3) ___

Plus one of the following

PSYCH 220 Health Psychology (SS) **	(3) ___
PSYCH 271 Cross-Cultural Psychology (ES)(SS) (PSYCH 101, 104 OR 110 w/C)	(3) ___
PSYCH 303 Psych of Abnormal Behavior(SS)	(3) ___
PSYCH 310 Comparative Psychology **	(3) ___
PSYCH 331 Infant and Child Development (SS) (PSYCH 101, 104 OR 110)	(3) ___
PSYCH 338 Adult Development and Aging (SS) (PSYCH 101, 104 OR 110)	(3) ___
PSYCH 355 Psychology of Adolescence (SS) **	(3) ___
PSYCH 390 Sport Psychology (SS) **	(3) ___

** (PSYCH 101, 104 OR 110)

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