

# Healthcare-Business Emphasis

## 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 491 B Senior Survey ***	(0) ___

\*\*\* Senior Students, during their last semester, will take a general biology/microbiology assessment exam and fill out a survey to express their opinion of the biology/microbiology program. Tests/surveys will be taken in the Testing Center at the student's convenience, (but during normal Testing Center hours). Completion of the test/survey is a requirement for graduation.

### Additional Required Courses (8-10 credits)

CHEM 101 B General, Organic & Biochem I*	(4) ___
CHEM 102 B General, Organic & Biochem II*	(4) ___
OR	
CHEM 105 B General Chemistry I *	(5) ___
CHEM 106 B General Chemistry II *	(5) ___
AND	
MATH 204 Finite Math for Business (MATH 103 OR 104 OR 108)	(4) ___
PLUS	
MATH 206 Applied Calculus for Business (MATH 104 OR 108 OR 204 w/C)	(4) ___
OR	
MATH 171 Calculus I (MA) (MATH 108 OR 104, 106 w/C)	(4) ___

### Additional Required Courses (14-18 credits)

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) (BIO 105)	(5) ___
AND	
BIO 212 B Human Physiology (NS)(BIO 211 w/C)	(4) ___
OR	
BIO 319 B General Animal Physiology (BIO 323)	(5) ___
BIO 349 Ecology and Evolution (1 term gen bio)	(3) ___

### Biology Electives (10 credits)

BIO 300 B Internship in Biology	(1-6) ___
BIO 301 B Internship in Microbiology	(1-6) ___
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)(1 term gen bio)	(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 Virology (BIO 323)	(3) ___
BIO 316 S Developmental Biology (BIO 323)	(3) ___
BIO 321 F Mycology (NS) (1 term gen bio)	(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 (A max of six credits from BIO 446/456 can be counted towards a Biology or Microbiology degree.)	(5) ___
BIO 456 B Related Readings	(1-3) ___

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

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 455 Sensation & Perception(PSYCH 275)	(3) ___

### ADDITIONAL required course that contribute towards General Education (6 credits)

PSYCH 101 B General Psychology	(3) ___
Plus one of the following:	
PSYCH 220 B Health Psychology	(3) ___
PSYCH 271 B Cross-Cultural Psychology (ES) (SS)	(3) ___
PSYCH 305 B Social Psychology	(3) ___
PSYCH 363 B Industrial and Organizational Psychology	(3) ___

# Healthcare-Business Emphasis continued....

## ADDITIONAL required courses

### Business Courses (17-18 credits)

BUS 198 Intro to Business **	(3) ___
BUS 204 Ess of Financial & Manag Accounting** (MATH 103 OR PBIS 187, 188 OR 189 C/BUS 198)	(4) ___
BUS 311 Essentials of Information Systems ** (44 credits W/GPA 2.4 or better)	(2) ___
BUS 351 Ess of Organizational Behavior** (44 credits W/GPA 2.4 or better, BUS 198, ECON 106, 204 OR 206)	(2) ___
BUS 361 Ess of Human Resource Manag** (44 credits W/GPA 2.4 or better, BUS 198, ECON 106, 204 OR 206)	(2) ___

### Plus any 2 of the following courses

BUS 320 Essentials of Law for Business**	(2) ___
BUS 331 Essentials of Finance ** (BUS 204, 201, 202 OR 206, 207 OR 201, 207)	(2) ___
BUS 341 Essentials of Operations Manag**	(2) ___
BUS 371 Essentials of Marketing **	(2) ___
ECON 204 Principles of Macroeconomics (SS) (MATH 104, 106, 108 OR 204)	(3) ___

**\*NOTE:** CHEM 101-102 is a terminal sequence and never substitutes for CHEM 105-106 should additional chemistry be desired.

**\*\*NOTE:** a maximum of 6 BUS cr per semester are allowed, so plan carefully to spread out these credits.

**\*\*\***(1 term gen bio)

Approved: November 2011

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