B.S. - Biology
Health Professions Concentration
(Effective Fall 2009)

MAJOR REQUIREMENTS

I. Biology Requirements* (38 credits)

Core Courses (15 cr.):
- BIO 115 - Principles of Biology I (4) ____
- BIO 116 - Principles of Biology II (4) ____
- BIO 220 - Microbiology (3) ____
- BIO 260 - Genetics (3) ____
- BIO 300-302 - Seminar (1) ____

Physiology elective (3-4 cr.) - choose:
- BIO 351 - Animal Physiology (3) ____
  or
- BIO 350 - Human Physiology (4) ____

Anatomy elective (3-4 cr.) - choose:
- BIO 370 - Comparative Anatomy (3) ____
  or
- BIO 371 - Human Anatomy (4) ____
  or
- Bio 375 - Histology (3) ____

Molecular/Cellular elective (3 cr.) - choose:
- BIO 385 - Cell Biology (3) ____
  or
- BIO 418 - Molecular Biology (3) ____

Additional Biology Electives (12-14 cr.)

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(only 2 seminars can be used for bio credit)

***** Students must earn at least a 2.0 average in Bio. 115 & 116 before upper-level Biology electives may be taken. See catalog for remediation procedure.
An overall **GPA** of at least **2.8** is required to remain in the Health Professions Concentration

Human Anatomy & Human Physiology are required of all pre-Physical Therapy, pre-Physician Assistant and pre-Occupational Therapy students.
PSY 101 is required for all pre-Chiropractic and pre-Optometry students.

II. Math Requirement (4 credits)
- MAT 211 - Calculus I (4) ____

III. Chemistry Requirements (16-19 credits)**
- CHM 121 - Chemical Bonding with lab IB (CHM 125) (4 cr total) ____
- CHM 122 - Chemical Dynamics with lab IIB (CHM 126) (4 cr total) ____
- CHM 221 - Organic Chemistry I with lab IIIB (CHM 225) (4 cr total) ____

CHM 227 - Introduction to Biochemistry (4) ____

OR (based on educational goals**)
- CHM 222 - Organic Chemistry II with lab IVB (CHM 226) (4 credits) ____ ***and***
- CHM 301 - Biochemistry (3) ____

** Organic II w/lab and biochemistry are required for pre-med, pre-dental, pre-vet, and pre-pharmacy students. Check professional program chemistry pre-requisites for other health disciplines.

IV. Physics Requirements (8 credits)
- PHY 121 - Introductory Physics I (3) with
- PHY 123 - Physics I lab (1) ____
- PHY 122 - Introductory Physics II (3) with
- PHY 125 - Physics II lab (1) ____

GENERAL EDUCATION PROGRAM

I. Required Skills and Competencies
- Fluency in Writing (3 credits) ____
- Fluency in Speech (3 credits) ____

Mathematical Competency - (satisfied with Calculus I)

Historical Perspective (6 credits)
- HIS 105 - World History I (3) ____
- HIS 106 - World History II (3) ____

II. Categories of Knowledge* (33 credits)

A. Logic and Numbers for Rational Thinking (3)
- MAT 117 - Applied Statistics (4) ____

B. Linguistics, Literary, Artistic, Cultural Traditions (9)

_____ (lit.)
_____ (humanity)
_____ (humanity)

C. Biological and Physical Sciences (9)
- satisfied by major requirements

D. Political, Economic, Geographic Sciences(6)

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E. Social and Behavioral Sciences (6)

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Free Electives (14-17 credits)**

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** number of elective credits must allow a total of at least 120 credits to meet graduation requirements

Strongly recommended electives to consider:
PSY 101 - General Psychology
PSY 320 - Behavioral Neuroscience
PSY 435 - Psychopharmacology
SOC 101 - Intro. to Sociology
SOC 369 - Medical Sociology
ANT 350 - Medical Anthropology (requires ANT 111)
ISM 142 - Intro. to Business Computer Systems

* Refer to the Undergraduate Catalog to determine the courses that can be counted under each section.

UPDATED 2/09