B.S. - Biology
B.S. – Medical Technology

(Effective Fall 2009)

MAJOR REQUIREMENTS

I. Biology Requirements* (38 credits)

Core Courses (33 cr.):

BIO 115 - Principles of Biology I (4) ____
BIO 116 - Principles of Biology II (4) ____
BIO 220 - Microbiology (3) ____
BIO 260 - Genetics (3) ____
BIO 317 – Parasitology (3) ____
BIO 324 – Pathogenic Microbiology (3) ____
BIO 350 – Human Physiology (4) ____
BIO 374 – Hematology (2) ____
BIO 385 – Cell Biology (3) ____
BIO 409 – Immunology (3) ____
BIO 300-302 - Seminar (1) ____
(only 2 seminars can be used for bio credit)

Additional Biology Electives (5 cr.)

_____
_____
(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.

NOTES:
An overall **GPA** of at least **2.5** is required to remain in the Medical Technology program.

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)
_____
_____

E. Social and Behavioral Sciences (6)
_____
_____

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 for the BS in Biology (first) degree

Strongly recommended electives to consider:
PSY 101 - General Psychology
SOC 101 - Intro. to Sociology
IMS 142 – Intro. to Business Computer Systems
or
CSC 103 – Overview of Computer Science

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

UPDATED 2/09