## B.S. - Biology Biotechnology Concentration/ Pre-Forensic Science

(Effective Fall 2009)

## MATOD DECITDEMENTS

MAJOR REQUIREMENTS
I. Biology Requirements* (38 credits):
Core Courses (30 cr.):
BIO 115 - Principles of Biology I (4)
BIO 116 - Principles of Biology II (4)
BIO 201 - Intro. to Biotechnology (1) BIO 220 - Microbiology (3)
BIO 220 - Microbiology (3)
BIO 260 - Genetics (3)
BIO 385 - Cell Biology (3)
BIO 409 - Immunology (3)
BIO 418 - Molecular Biology (3)
BIO 461 - Techniques in Biotechnology (3)
BIO 397 - Intro. to Research (3) or
BIO 391 - Internship (3)
(Research/Internship must be forensic based)
Physical and a decision (2 A and ) about
Physiology elective (3-4 cr.) - choose:
BIO 351 - Animal Physiology (3)
or
BIO 350 - Human Physiology (4)
or BIO 352 - Plant Physiology (3)
bio 332 Fianc Engalology (3)
Additional Biology Electives (4-5 cr.)
(only BIO 201 and one other seminar can be
used for bio credit)
Strongly recommended Biology electives:
BIO 324 - Pathogenic Microbiology
BIO 371 - Human Anatomy
BIO 374 - Hematology
BIO 408 - Virology
BIO 485 - Biological Microscopy & Imaging
BIO 513 - Cytogenetics
* 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.
<pre>II. Math Requirement (4 credits):</pre>
MAT 211 - Calculus I (4)
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<pre>III. Chemistry Requirements (22-23 credits):</pre>
CHM 121 - Chemical Bonding with lab IB
(CHM 125) (4 credits)
CHM 122 - Chemical Dynamics with lab IIB
(CHM 126) (4 credits)
CHM 221 - Organic Chemistry I with lab IIIB
(CHM 225) (4 credits)
CHM 222 - Organic Chemistry II with lab IVB
(CHM 226) (4 credits)
CHM 301 - Biochemistry I (3)
CHM 420 - Biochemistry II (3)
or
CHM 371 - Analytical Chemistry (4)
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)
<pre>II. Categories of Knowledge* (33 credits) A. Logic and Numbers for Rational Thinking (3) MAT 117 - Applied Statistics (4)</pre>
B. Linguistics, Literary, Artistic, Cultural Traditions (9)
(lit.)
(humanity)
(humanity)
<ul><li>C. Biological and Physical Sciences (9)</li><li>- satisfied by major requirements</li></ul>
D. Political, Economic, Geographic Sciences(6)
The Control and Debasional Cotton (C)
E. Social and Behavioral Sciences (6) PSY 101 - Intro. to Psychology (3)
Criminal Justice Requirements (15 credits) CRJ 100 - Intro. to Criminal Justice (3)
CRJ 211 - Criminal Law & Procedure (3)
CRJ 309 - Theories of Crime &
Crime Control (3) CRJ 336 - Intro. to Forensic Science (3)
CRJ 456 - Forensic Science:
Evidence Analysis (3)
Strongly recommended electives:
SOC 101 - Intro. to Sociology
CHM 421 - Biochemistry Laboratory
CHM 371 - Analytical Chemistry
ANT 350 - Medical Anthropology (requires ANT 111 or BIO 371-Human Anatomy)
* Refer to the Undergraduate Catalog to determine the courses that can be counted under each section.

UPDATED 2/09