

**BS Biology/Pre Professional**  
**126 Credits Required**

It is the responsibility of the student to meet all of their major and liberal arts course requirements of the University.

**CORE REQUIREMENTS (40)**

|                                  |   |                              |
|----------------------------------|---|------------------------------|
| *UNIV 100 Living Resp. (1) (F)   | Religious Studies 112 (3)               | Philosophy 113 (3)           |
| ENGL 160 Writing Skills (3) (C>) | *Religious Studies 100 or above (3)     | *Philosophy 100 or above (3) |
| English 180 (3) World Lit        | *Social Science _____ (3)               | History (global) _____ (3)   |
| English 300 or above (3)         | Foreign Language _____ (3)              | History _____ (3)            |
| Fine Arts _____ (3)              | *Foreign Language _____ (3) or Elective |                              |

\*Transfer students are exempt from UNIV 100

\* Social Sciences e.g. Psychology 211, Economics, Sociology, Political Science, Anthropology, Criminology or any other social science course.

\*If a student has completed 4 years of the same foreign language in high school, **that student can choose to take just one, three-credit course** to satisfy the foreign language requirement. That course however, **must be above the 212 level**.

**MAJOR REQUIREMENTS**

**Required for all Biology Majors (44)**

|              |   |
|--------------|---|
| BIOL 150 + L | General Biology I (4) (F) (SI)            |
| BIOL 151 + L | General Biology II (4) (S) (SII)          |
| BIOL 410     | Science Literacy Capstone (2) (F)         |
| CHEM 131 + L | General Chemistry I (4) (F) (SII)         |
| CHEM 132 + L | General Chemistry II (4) (S)              |
| CHEM 221 + L | Organic Chemistry I (4) (F)               |
| CHEM 222 + L | Organic Chemistry II (4) (S)              |
| PHYS 303+L   | General Physics I (4) (F)                 |
| PHYS 304+L   | General Physics II (4) (S)                |
| MATH 155     | Statistics for the Bhvl Soc Sci (3) (F/S) |
| MATH 170     | Applications of Math to Biology (3) (S)   |
| OR           |   |
| MATH 201     | Calculus with Analytic Geometry I (3) (F) |

|            |                                   |
|------------|-----------------------------------|
| BIOL 440+L | Molecular & Cellular BIOL (4) (S) |
| OR         |                                   |
| BIOL 446+L | Genetics (4) (F)                  |

**(30) Additional Electives Needed**

|              |  |
|--------------|--|
| BIOL 201+L   | Human Gross Anatomy (4) (F)                |
| BIOL 202 + L | Human Physiology (4) (S)                   |
| BIOL 235+L   | General Microbiology (4) (F)               |
| BIOL 281     | Intro to Biotechnology (3) (F)             |
| BIOL 305     | Fundamental Neuroscience (3) (S)           |
| BIOL 332+L   | Immunology (4) (S)                         |
| BIOL 351     | Evolution (3) (S)                          |
| BIOL 421+L   | Biochemistry I (4) (F)                     |
| BIOL 422     | Biochemistry II (3) (S)                    |
| BIOL 454     | Undergrad Research (1, 2 or 3) (F/S)       |
| BIOL 498     | Biology Internship (1, 2 or 3) (F/S)       |
| BIOL 499     | Independent Study (1, 2 or 3) (F/S)        |
| CHEM 312     | Environmental Chemistry (3) (F)            |
| CHEM 398+L   | Chemical Analysis (3)                      |
| CHEM 499     | Independent Study (1, 2 or 3) (F/S)        |
| ENVS 420+L   | Ecology (4) (F)                            |
| MATH 202     | Calculus with Analytic Geometry II (3) (S) |

**12 Additional Credits are Needed**

|          |  |
|----------|--|
| MATH 160 | Analysis of Function or Placement Exam (3) (F/S) |
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(F = Fall Semester)      (S = Spring Semester)      (F/S = Fall or Spring Semester)      (SI = Summer Session I)      (SII = Summer Session II)  
(C> = Needs a C or better)

Students who plan to apply to a professional school are advised to explore the entrance courses requirements and discuss science elective options with their advisor and choose those electives based on the requirements of the professional schools. MATH 201 Calculus I and MATH 202 Calculus II & BIOL CHEM I & II are highly recommended. For pre-med students taking the MCAT starting January 2015 it is recommended to take both General Psychology (PSYC 211) and Introduction to Sociology (SOC 201). Students who have completed both of the above are recommended to take an additional PSYC or SOC course that is related to Health or Medicine such as PSYC 319 Health Psychology or SOC 350 Medical Sociology.

Pre-med students should enroll in Biochemistry 1 in the Fall of their junior year and Biochemistry 2 in the spring of their junior year.

Pre-professional students that are **on track** and **seriously** considering applying to med/dental/vet school at the end of their **junior** year should enroll in the Capstone course in the Fall of their Junior year.