

## BIOLOGY CURRICULUM SEQUENCE (Bio-Medical Pre-Professional)



| <i>Freshman Year (First Semester)</i>  |   |               | <i>Freshman Year (Second Semester)</i>  |   |                     |
|--|---|---------------|---|---|---------------------|
| BIOL 109<br>(Honors 111)               | Foundations in Biology I  | 4             | BIOL 110<br>(Honors 112)                | Foundations in Biology II   | 4                   |
| CHEM 105 /150L<br>(Honors 111/111L)    | Principles of General Chemistry I                                   | 4             | CHEM 106/106L<br>(Honors 112/112L)      | Principles of General Chemistry II  | 4                   |
| ENGL 101                               | Freshman Composition I  | 3             | MATH 241                                | Calculus I (MQ)   | 4                   |
| ORNS 106                               | Freshman Orientation for SCMNS Majors                               | 1             | ENGL 102                                | Freshman Composition II EC  | 3                   |
| XXXX                                   | SB General Education Req.   | 3             |   |   |                     |
|  | <b>TOTAL</b>  | <b>15</b>     |   | <b>TOTAL</b>  | <b>15</b>           |
| <i>Sophomore Year (Third Semester)</i> |   |               | <i>Sophomore Year (Fourth Semester)</i> |   |                     |
| BIOL 204                               | Developmental Biology   | 4             | BIOL 209                                | Principles of Animal Physiology   | 4                   |
| CHEM 203/CHEM 203L                     | Organic Chemistry I   | 5             | CHEM 204/204L                           | Organic Chemistry II  | 5                   |
| PSYC 101                               | General Psychology (SB)   | 3             | COSC 110<br>(COSC 150)                  | Introduction to Computing (IM)<br>(Computer Science and Data Analysis (IM))                     | 3                   |
| XXXX                                   | AH General Education Req.   | 3             | XXXX                                    | AH General Education Req.   | 3                   |
|  | <b>TOTAL</b>  | <b>15</b>     |   | <b>TOTAL</b>  | <b>15</b>           |
| <i>Junior Year (Fifth Semester)</i>    |   |               | <i>Junior Year (Sixth Semester)</i>     |   |                     |
| PHIL 109                               | Introduction to Critical Thinking CT                                | 3             | BIOL 310                                | Cell and Molecular Biology  | 4                   |
| XXXX                                   | CI General Education Req  | 3             | PSYC 108                                | Scientific Method in Psychology   | 3                   |
| PHYS 203/203L<br>(PHYS 205/205L)       | General Physics: Fundamental of Physics I<br>(University Physics I) | 4 (5)         | PHYS 204/204L<br>(PHYS 206/206L)        | General Physics: Fundamental of Physics II<br>(University Physics II)                           | 4 (5)               |
| BIOL 303                               | Genetics  | 4             | XXXX                                    | HH General Education Req.   | 3                   |
| XXXX                                   | PHYS ED. or FIN 101 or MIND 101                                     | 1             | XXXX                                    | Complementary Studies   | 3                   |
|  | <b>TOTAL</b>  | <b>15(16)</b> |   | <b>TOTAL</b>  | <b>17(18)</b>       |
| <i>Senior Year (Seventh Semester)</i>  |   |               | <i>Senior Year (Eighth Semester)</i>    |   |                     |
| BIOL 205                               | Ecology and Adaptations   | 4             | BIOL 450<br>(BIOL 451)<br>(BIOL 453)    | Critical Analysis of Scientific Lit.<br>(Senior Research Seminar)<br>(Scientific Communication) | 3                   |
| CHEM 304                               | Biochemistry  | 4             | XXXX                                    | 400 Level BIOL Course   | 4                   |
| PSYC 316                               | Psychological Statistics I  | 3             | XXXX                                    | Complementary Studies Elective  | 3                   |
| BIOL 4XX                               | 400 level Biology Course  | 4             | XXXX                                    | Free Elective   | 3                   |
|  | <b>SCMNS TOTAL</b>  | <b>15</b>     |   |   |                     |
|  |   |               |   | <b>SCMNS TOTAL</b>  | <b>13</b>           |
|  |   |               |   | <b>TOTAL CREDITS</b>  | <b>120(121-122)</b> |

\*Math 241 and 242 are prerequisites for PHYS 205 and 206 lecture and lab.

\*\*For the CHEM elective, the student must choose Chem 207 or Chem 304 to fulfill a minor in Chemistry.

\*\*\*For the quantitative analysis course, students may choose one of the following courses: ACCT 201, ECON 212, PYSC 316 OR 317, MATH 120, 242, OR 331.

\*\*\*\* BIOL 450, 451 or 453 may not be used to satisfy 400 level Biology requirements.