

## BACHELOR OF SCIENCE Pre-Professional Biology

Name \_\_\_\_\_

120 hours minimum for graduation with a 2.00 average overall  
56 Hours from a four year institution

### General Studies

| Course   | Title          | Hrs | Sem | CR | QPts |
|----------|----------------|-----|-----|----|------|
| UNIV 100 | University 100 | 1   |     |    |      |

### English

|          |                             |   |  |  |  |
|----------|-----------------------------|---|--|--|--|
| ENGL 101 | Composition and Rhetoric I  | 3 |  |  |  |
| ENGL 102 | Composition and Rhetoric II | 3 |  |  |  |
| ENGL 203 | World Literature I          | 3 |  |  |  |
| ENGL 204 | World Literature II         | 3 |  |  |  |

### Communication Arts

|          |                        |   |  |  |  |
|----------|------------------------|---|--|--|--|
| CART 101 | Fundamentals of Speech | 3 |  |  |  |
|----------|------------------------|---|--|--|--|

### The Arts – Choose two courses

|          |                             |   |  |  |  |
|----------|-----------------------------|---|--|--|--|
| ART 101A | Introduction to Visual Arts | 3 |  |  |  |
| MUS 101A | Introduction to Music       | 3 |  |  |  |
| CART 102 | Introduction to Theatre     | 3 |  |  |  |

### Physical Education

|          |                   |   |  |  |  |
|----------|-------------------|---|--|--|--|
| PED 101M | Personal Wellness | 2 |  |  |  |
|----------|-------------------|---|--|--|--|

### Social Sciences

Four courses with at least three disciplines represented.

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### Foreign Language – Recommended

Two courses may be substituted for any two general studies courses except ENGL 101 & 102 and Math. Only ONE substitution per discipline.

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General Studies Mathematics and Laboratory Science requirements will be fulfilled by the major.

### RESIDENCE CREDIT:

- 36 Hours at Concord
- 16 of last 32 hours at Concord
- 9 Hours in Major, Teaching Fields

**\*\*Should be taken in May or June following Junior year.**

### Biology Pre-Professional (2.00 GPA required)

Course Title Hrs Sem CR QPts

| Freshman Fall Semester |  |   |  |  |  |
|------------------------|--|---|--|--|--|
| BIOL 101               | General Biology I                                    | 4 |  |  |  |
| CHEM 101               | General Chemistry I                                  | 3 |  |  |  |
| CHEM 111               | General Chemistry Lab I                              | 1 |  |  |  |
| MATH 103               | College Algebra<br><i>(prerequisite for classes)</i> | 3 |  |  |  |

| Freshman Spring Semester |   |   |  |  |  |
|--------------------------|---|---|--|--|--|
| BIOL 102                 | General Biology II  | 4 |  |  |  |
| BIOL 235                 | Human A&P I   | 4 |  |  |  |
| CHEM 102                 | General Chemistry II                                      | 3 |  |  |  |
| CHEM 112                 | General Chemistry Lab II                                  | 1 |  |  |  |
| MATH 104                 | College Trigonometry<br><i>(prerequisite for classes)</i> | 3 |  |  |  |

| Sophomore Fall Semester |                               |   |  |  |  |
|-------------------------|-------------------------------|---|--|--|--|
| BIOL 237                | Human A&P II                  | 4 |  |  |  |
| CHEM 331                | Organic Chemistry I           | 4 |  |  |  |
| MATH 250                | Calculus w/ Analytic Geometry | 4 |  |  |  |

| Sophomore Spring Semester |                       |   |  |  |  |
|---------------------------|-----------------------|---|--|--|--|
| BIOL 330                  | Microbiology          | 4 |  |  |  |
| CHEM 332                  | Organic Chemistry II  | 4 |  |  |  |
| MATH 250                  | Elementary Statistics | 3 |  |  |  |

| Junior Fall Semester |   |   |  |  |  |
|----------------------|---|---|--|--|--|
| BIOL 302             | Cell & Molecular Biology                                  | 4 |  |  |  |
| CHEM 341             | Biochemistry  | 3 |  |  |  |
| PHYS 101             | Introduction to Physics<br><i>*may sub. 201 in Spring</i> | 4 |  |  |  |

| Junior Spring Semester |  |   |  |  |  |
|------------------------|--|---|--|--|--|
| BIOL 202               | Animals as Organisms                                 | 4 |  |  |  |
| BIOL 401               | Genetics   |   |  |  |  |
| PHYS 102               | Intermediate Physics<br><i>*may sub. 202 in Fall</i> | 4 |  |  |  |

### \*\*Take Professional School Entrance Exam

| Senior Fall Semester |         |   |  |  |  |
|----------------------|---------|---|--|--|--|
| BIOL 201             | Ecology | 4 |  |  |  |
| BIOL 301             | Plants  | 4 |  |  |  |

| Senior Spring Semester |  |   |  |  |  |
|------------------------|--|---|--|--|--|
| BIOL 455               | Biology Capstone<br><i>*may substitute 452 &amp; 453</i> | 2 |  |  |  |

**Additional Courses – may be inserted in any semester**  
Plus 2 hours science electives (MATH 101, 103 & 104 excluded)

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### English Placement

| Test Cut-Offs | ENGL 090 | ENGL 101 |
|---------------|----------|----------|
| ACT           | <18      | ≥18      |
| SAT           | <450     | ≥450     |

### Math Placement

| Test Cut-Offs | MATH 090/091<br>(Compass test) | MATH 103 | MATH 104 | MATH 250 |
|---------------|--------------------------------|----------|----------|----------|
| ACT           | <19                            | ≥19      | ≥25      | ≥28      |
| SAT           | <460                           | ≥460     | ≥580     | ≥630     |

### Social Science Elective Choices

ECON 201: Macroeconomics  
ECON 202: Microeconomics  
GEOG 101: World Cultural Geography  
GEOG 200: Physical Geography  
GEOG 250: Regional Studies  
HIST 101: History of Civilization to 1600  
HIST 102: History of Civilization from 1600  
PHIL 101: History of Ideas I

PHIL 102: History of Ideas II  
POSC 101: Political Science  
POSC 104: American Federal Government  
PSY 101: General Psychology  
PSY 200: Basic Learning  
SOC 101: People and Environment  
SOC 310: Cultural Anthropology

### Biology Electives

BIOL 215: Medicinal Plants (S-odd)  
BIOL 225: Special Topics  
BIOL 230: Ornithology (S-odd)  
BIOL 231: Herpetology (F-odd)  
BIOL 235: Human Anatomy & Physiology I (S)  
BIOL 237: Human Anatomy & Physiology II (F)  
BIOL 250: Medical Terminology (F and Sum)  
BIOL 260: Local Flora (S-even)  
BIOL 315: Freshwater Ecology (S-even)  
BIOL 330: Microbiology (S)  
BIOL 370: Evolution (F- even)  
BIOL 373: Research  
BIOL 375: Biology Shadowing/Internship (F & S)  
BIOL 420: Immunology (F)  
BIOL 425: Special Topics

### Chemistry Electives

CHEM 210: Chemical Lab Safety (F)  
CHEM 347: Biochemistry (F)  
CHEM 351: Analytical Chemistry (F)  
CHEM 352: Instrumental Analysis (S)  
CHEM 357: Analytical Chemistry Lab (F)  
CHEM 358: Instrumental Analysis Lab (S)

### Natural Science Electives

NSC 300C: Biogeography (S-odd)  
NSC 300D: Science and Religion (F-odd)  
NSC 300E: Human Genetics (F-odd)  
NSC 325: Teaching Assistantship