



# Pre-Med/Pre-Health Path for Biology Majors

| 1 <sup>st</sup> Year | Fall semester  | Spring semester  |
|----------------------|--|--|
|                      | BIO101 Molecules, Genes & Cells w/lab<br>or<br>BIO102 Evolution, Organisms & Ecology w/lab                     | BIO102 Evolution, Organisms & Ecology w/lab<br>or<br>BIO101 Molecules, Genes & Cells w/lab                     |
|                      | CHEM120 Structure & Function of Organic Molecules<br>or<br>CHEM130 Structure & Function of Inorganic compounds | CHEM130 Structure & Function of Inorganic compounds<br>or<br>CHEM120 Structure & Function of Organic Molecules |
|                      | First Year Seminar   | GenEd course in AH, SS, PPD, or GL   |
|                      | GenEd course in AH, SS, PPD, or GL   | GenEd course in AH, SS, PPD, or GL   |

| 2 <sup>nd</sup> (Sophomore)<br>Year | Fall semester                         | Spring semester  |
|-------------------------------------|---------------------------------------|--|
|                                     | BIO241 Cellular Biology w/lab         | BIO320 Genetics  |
|                                     | BIO250 Microbiology w/lab             | CHEM240 Structure & Function of Biomolecules<br>(can count towards BIO or CMB major) |
|                                     | CHEM170 Stoichiometric Calculations   | PSY100 Introductory Psychology   |
|                                     | MATH151 Calculus I                    | GenEd in AH, SS, PPD, or GL  |
| GenEd course in AH, SS, PPD, or GL  | BIO490 Independent Research (0.5 cr.) |  |

| 3 <sup>rd</sup> (Junior) Year | Fall semester                    | Spring semester                        |
|-------------------------------|----------------------------------|--|
|                               | BIO335 Animal Physiology         | BIO375 Biostatistics                   |
|                               | BIO315 Molecular Biology         | CHEM260 Thermodyn., Equili. & Kinetics |
|                               | PHYS 120 Principles of Physics I | PHYS 130 Principles of Physics II      |
|                               | Spanish course (or Language 1)   | Spanish course (or Language 2)         |

**MCAT in Spring/Summer before Senior Year: Submit Med-School Applications**

| 4 <sup>th</sup> (Senior) Year | Fall semester  | Spring semester                                      |
|-------------------------------|--|--|
|                               | BIO450 Senior Seminar<br>or BIO 200/300-level course | BIO450 Senior Seminar<br>or BIO 200/300-level course |
|                               | CHEM310 Enzyme Mechanisms                            | BIO345 Conservation Biology                          |
|                               | BIO361 Immunology                                    | additional course                                    |
|                               | additional course                                    | additional course                                    |

**Introductory Biology Courses:**  
BIO101 Molecules, Genes and Cells w/lab  
BIO102 Evolution, Organisms and Ecology w/lab

**Courses in Cellular and Molecular Biology**  
BIO241 Cellular Biology w/lab  
BIO250 Microbiology w/lab  
BIO314 Biochemistry and Cellular Biology w/lab  
BIO315 Molecular Biology w/lab  
BIO325 Bioinformatics w/lab  
BIO381 Cell Signaling in Physiology w/lab  
BIO385 Molecular Neurobiology w/lab  
BIO415 Molecular Genetics & Genomics w/lab

**Courses in Organismal Biology**  
BIO203 Human Anatomy w/lab  
BIO334 Developmental Biology w/lab  
BIO335 Animal Physiology w/lab  
BIO361 Immunology w/lab  
BIO382 Neurobiology w/lab

**Comprehensive Courses:**  
BIO320 Genetics  
BIO375 Biostatistics w/lab  
BIO190 Topics  
BIO290 Topics  
BIO390 Topics