

Pre-Professional Health Sciences Program

Biochemistry Major

Pre-Medicine

Science Course Requirements

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| CHEM 221 | General Chemistry I | 4 SH |
| CHEM 232 | General Chemistry II | 4 SH |
| CHEM 311 | Organic Chemistry I | 4 SH |
| CHEM 322 | Organic Chemistry II | 4 SH |
| BIOCH 371 | Foundational Biochemistry | 4 SH |
| CHEM/BIOCH 461 | Biochemistry Seminar & Research | 2 SH |
| | Biochemistry & Chemistry Choice | 6 SH |
| | Biochemistry or Chemistry Elective | 3-4 SH |
| BIOL 171 | Concepts in Biology | 4 SH |
| BIOL 222 | Molecules, Genes, & Cells | 4 SH |
| | Biology Elective (upper level) | 4 SH |
| PHYS 251 | University Physics I | 4 SH |
| PHYS 262 | University Physics II | 4 SH |
| MATH 151 | Differential Calculus | 3 SH |
| MATH 162 | Integral Calculus | <u>3 SH</u> |
| | Total | 57-58 SH |

Recommended Science & Additional Courses

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| *CHEM 401 | Thermodynamics | 3 SH |
| *CHEM 412 | Quantum Mechanics | 3 SH |
| *BIOCH 391 | Advanced Cell Biology | 3 SH |
| *BIOCH 432 | Molecular Genetics | 3 SH |
| *BIOL 281 | Animal Form & Function | 4 SH |
| *BIOL 301 | Developmental Biology | 4 SH |
| *BIOL 332 | Immunology | 4 SH |
| *BIOL 342 | Environmental Physiology | 4 SH |
| *BIOL 371 | Plant Physiology | 4 SH |
| BIOL 442 | Mammalian Physiology | 4 SH |

*Alternate Year course