

Biochemistry Major (B.S.)

Recommended Schedule

Fall

Spring

Year 1

| | | | | | |
|--------------------------|------------|---|--------------------------|------------|---|
| Principles of Chemistry | CHEM 12100 | 4 | Organic Chemistry I | CHEM 22100 | 3 |
| Principles of Biology | BIOL 12100 | 4 | Experimental Chemistry I | CHEM 12400 | 2 |
| Topics in Chem & Biochem | CHEM 12000 | 1 | Principles of Biology | BIOL 12200 | 4 |
| Academic Writing | WRTG 10600 | 3 | ICC Elective | | 3 |
| Ithaca Seminar | | 4 | | | |

Year 2

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|---------------------------|------------|---|------------------------|------------|---|
| Organic Chemistry II | CHEM 22200 | 3 | Quantitative Chemistry | CHEM 23200 | 3 |
| Experimental Chemistry II | CHEM 22500 | 2 | ICC Elective | | 3 |
| Genetics (or Spring) | BIOL 22700 | 4 | CLA Elective | | 3 |
| ICC/CLA Elective | | 3 | | | |

Year 3

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|----------------|------------|---|-----------------|------------|---|
| Biochemistry I | BIOC 35300 | 3 | Biochemistry II | BIOC 35400 | 3 |
| ICC Elective | | 3 | CLA Elective | | 3 |

Year 4

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|----------------------|------------|---|------------------------|------------|---|
| Physical Chemistry I | CHEM 33100 | 3 | Topics in Biochemistry | BIOC 48100 | 3 |
| CLA Elective | | 3 | | | |

a) Options for Math Requirements (typically taken within the first two years)

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|--------------------------|------------|---|----------------------------|------------|---|
| Calc for Decision Making | MATH 10800 | 4 | and Statistics for Science | MATH 14500 | 4 |
| <i>or</i> | | | | | |
| Calculus I | MATH 11100 | 4 | and Calculus II | MATH 11200 | 4 |

b) Options for Physics (typically taken in Year 3)

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|-------------------------|------------|---|------------------------------|------------|---|
| Intro to Physics I | PHYS 10100 | 4 | and Intro to Physics II | PHYS 10200 | 4 |
| <i>or</i> | | | | | |
| Principles of Physics I | PHYS 11700 | 4 | and Principles of Physics II | PHYS 11800 | 4 |

Note: PHYS 11700/11800 sequence would need to occur in the 1st or 2nd year as it conflicts with BIOC 35300/35400

c) Options for Cellular Biochemistry Elective (taken in Year 3-4)

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|------------------------------|------------|---|
| Developmental Biology (Fall) | BIOL 34500 | 4 |
| Microbiology (Spring) | BIOL 35200 | 4 |
| Cell Biology (Fall) | BIOL 35400 | 4 |

d) Options for Inquiry-based Lab (taken in Year 3-4)

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|---------------------------|------------|---|
| Research in Biochemistry | BIOC 39000 | 3 |
| Experimental Biochemistry | BIOC 41000 | 3 |

e) Options for Advanced Elective (taken in Year 3-4)

Many 300-level and 400-level Biology or Chemistry electives (including two 1.5 credit block courses)
Check with your academic adviser or the Chairs of the Biology and Chemistry Departments.