

Microbial, Cellular & Molecular Biology — Cell & Molecular Biology Option (MCCM)

Freshman

| Fall | Hours | Spring | Hours |
|---|-------|--|-----------|
| ENGL 1100 English Composition I | | 3 ENGL 1120 English Composition II | 3 |
| CORE HISTORY | | 3 CORE FINE ARTS | 3 |
| CHEM 1030 Fundamentals Chemistry I | | 3 CHEM 1040 Fundamental Chemistry II | 3 |
| CHEM 1031 Fundamental Chemistry I Laboratory | | 1 CHEM 1041 Fundamental Chemistry II Laboratory | 1 |
| BIOL 1020 Principles of Biology | | 3 BIOL 1030 Organismal Biology | 3 |
| BIOL 1021 Principles of Biology Laboratory | | 1 BIOL 1031 Organismal Biology Laboratory | 1 |
| BIOL 2100 Professional Development | | 1 | |
| | | 15 | 14 |

Sophomore

| Fall | Hours | Spring | Hours |
|--|-------|---|--------------|
| CHEM 2070 Organic Chemistry I | | 3 CHEM 2080 Organic Chemistry II | 3 |
| CHEM 2071 Organic Chemistry I Laboratory | | 1 CHEM 2081 Organic Chemistry II Laboratory | 1 |
| MATH 1610 Calculus I | | 4 BIOL 3200 General Microbiology | 3 |
| CORE LITERATURE | | 3 BIOL 3201 General Microbiology Laboratory | 1 |
| BIOL 3000 Genetics | | 3 CORE HISTORY or LIT ¹ | 3 |
| BIOL 3001 General Genetics Laboratory | | 1 MATH 1620 Calculus II or STAT 2510 Statistics for Biological and Health Sciences | 4 or 3 |
| | | 15 | 15-14 |

Junior

| Fall | Hours | Spring | Hours |
|---|-------|--|-----------|
| BCHE 5180 Biochemistry I | | 3 BCHE 5190 Biochemistry II | 3 |
| BCHE 5181 Biochemistry I Laboratory | | 1 BIOL 4100 Cell Biology | 3 |
| BIOL 5220 Introductory Molecular Genetics | | 3 BIOL 4101 Cell Biology Laboratory | 2 |
| BIOL 5521 Gene Expression and Recombinant DNA Laboratory | | 2 PHYS 1510 General Physics II | 4 |
| MMCB Elective | | 3 Core Social Science or Humanities | 3 |
| PHYS 1500 General Physics I | | 4 Free Elective | 2 |
| | | 16 | 17 |

Senior

| Fall | Hours | Spring | Hours |
|----------------------------------|-------|-------------------------------------|--------|
| Evolution Elective | | 3 Physiology Elective | 3 |
| Biology Elective | | 3 MMCB Elective | 4 |
| Biodiversity Elective | | 3 Biology Elective | 4 or 5 |
| CORE HUMANTIES | | 3 CORE SOCIAL SCIENCES ² | 3 |
| CORE SOCIAL SCIENCE ² | | 3 BIOL 4950 Senior Seminar | 1 |

| | | |
|---------------------------------------|-------------------------------|--------------|
| BIOL 4AA0 Professional Development II | 0 UNIV 4AA0 Achieve the Creed | 0 |
| | 15 | 15-16 |

Total Hours: 122

- ¹ Students must complete a two-course sequence in either HIST or LIT (for example, World History 1 and 2 or American Lit 1 and 2). For complete HIST and LIT sequence options, see the *Bulletin*.
- ² If a LIT sequence is chosen, this course must be a CORE SOC SCI. If a HIST sequence is chosen, this course must be a CORE HUMANITIES.