

Molecular Biology

4 year Pathway 2026-2027

| Freshman Year (28 Units) | Course or GE Title | Units | GE/Major |
|--|---|--------------|-----------------|
| Fall Freshman Courses (14 units) | Course or GE Title | Units | GE/Major |
| FYS 191 or other FYS | Philosophy of Non-violence | 3 | FYS, 6 |
| MATH 130 (w/ MATH 30 if needed) | Precalculus (w/ co-req support course) | 5 | Major, Area 2* |
| HCOM 110 | Oral Communication GE | 3 | 1C |
| HCOM 125 or LS 120 | English Composition GE | 3 | 1A |
| Spring Freshman Courses (14 units) | Course or GE Title | Units | GE/Major |
| MATH 150 | Calculus I | 4 | 2, Major |
| CHEM 110 +CHEM 110L | General Chemistry I & Chem 1 Lab | 4+1 | 5A, 5C, Major |
| BIO 211 & BIO 211L (211D optional) | Ecology, Evolu, Biodiv & Plants & lab | 4+1 | Major |
| Fall Sophomore Courses (16 units) | Course or GE Title | Units | GE/Major |
| HCOM200, HCOM202, BIO131 or ENSTU130 | Critical Thinking GE | 3 | 1B |
| CHEM 111 & CHEM 111L | General Chemistry II & Chem II Lab | 4+1 | 5A, 5C, Major |
| Any 3B GE course | Humanities | 3 | 3B |
| BIO 210 & BIO 210L | Cell & Molec Bio & Animal Physio& Lab | 4+1 | 5B, 5C, Major |
| Spring Sophomore Courses (16 units) | Course or GE Title | Units | GE/Major |
| PHYS 220 | Physics I with Lab | 4 | Major |
| CHEM 211 & CHEM 211L | Organic Chemistry I & OCHEM 1 lab | 3+2 | Major |
| SL210S, ED212S, HCOM260S, SBS212S | Civics/Service Learning GE course | 3 | 4B US 2/3 |
| PSY 100 or other Social Science GE course | Lower-division 4A course | 3 | 4A |
| Fall Junior Courses (15 Units) | Courses of GE Title | Units | GE/Major |
| SPAN 340 or 350 or JAPN 340 or 350 | UD 3 with World Culture & languages | 3 | UD 3, WCL |
| STAT 250 | Applied Stats for Science & Tech | 4 | Major |
| Any 3A | Hummanites | 3 | 3A |
| BIO 378S or BIO 379S | Health Sci Svc Lrn or Biology Svc Learn | 3 | UDSL, Major |
| Spring Junior Year (16 Units) | Courses of GE Title | Units | GE/Major |
| BIO 311 | Genetics | 4 | UD 5, core |
| CHEM 310 | Biochemistry I | 3 | Concentration |
| BIO 320 or BIO 322 | Microbiology or Plant Pathology | 4 | RSCH Meth |
| BIO 301 | Research & Technical Writing in Biology | 3 | GWAR, Core |
| Fall Senior Courses (14 units) | Courses or GE Title | Units | GE/Major |
| BIO 330 or BIO 332 or BIO 341 or BIO 370 | Physiology or Evolutionary Biol course | 3 | Concentration |
| HCOM 353 or 369 | UD Social Sciences + US 1 | 3 | UD4, US 1 |
| MoBio Elective (or course for minor) | Major elective | 3 | Concentration |
| BIO 421 + BIO 492 or other Integ Learning | Integrative Learning/Capstone | 4 | Concentration |
| Spring Senior Courses (15 units total) | Course or GE Title | Units | |
| BIO 320, 322, 330, 370, 380, 410, 412, 413, 414, 421, 425, 430, 444, 461, or CHEM 350, CHEM 410, or MSCI 331 | Additional Molec Biol concentration course not counted previously for other requirement | 4 | Concentration |
| Advanced MB Elective (or course for minor) | Major elective | 3 | Concentration |
| Advanced MB Elective (or course for minor) | Major elective | 3 | Concentration |
| Advanced MB Elective (or course for minor) | Major elective | 3 | Concentration |
| | Total BIO Molec Biol 4-yr pathway: | 120 | |
| | Total Overall Units: | 60 | |