

B.S.in Biological Sciences, Concentration in Cell & Molecular Biology (Starting with ENGL 100 and MATH 125)

MINIMUM TOTAL UNITS TO DEGREE: 120 units

FALL (Yr 1, Semester 1)

| Requirement | Course | Course Title | Units |
|---------------|----------|--|-----------|
| E | BIOL 130 | Connecting to Biology | 2 |
| LD Major | PHYS 125 | Principles of Physics I | 4 |
| LD Major | MATH 125 | Precalculus with Algebra | 5 |
| A2 | ENGL 100 | College Writing Stretch I (English Comp) | 3 |
| E | | Student choice | 1 |
| TOTAL: | | | 15 |

SPRING (Yr 1, Semester 2)

| Requirement | Course | Course Title | Units |
|---------------|-----------|---|-----------|
| B2/LD Major | BIOL 140A | Principles of Cell & Mol. Biology | 5 |
| LD Major | PHYS 126 | Principles of Physics II | 4 |
| LD Major | MATH 130 | Calculus I | 4 |
| A2 | ENGL 101 | College Writing Stretch II (English Comp) | 3 |
| TOTAL: | | | 16 |

FALL (Yr 2, Semester 3)

| Requirement | Course | Course Title | Units |
|---------------|-----------|----------------------------------|-----------|
| B1 | CHEM 111 | General Chemistry I | 3 |
| B1 | CHEM 111L | General Chemistry I Lab | 2 |
| LD Major | BIOL 140B | Principles of Organismal Biology | 5 |
| A3 | PHIL 100 | Workshop in Critical Thinking | 3 |
| 2nd Comp | ENGL 201 | College Writing II | 3 |
| TOTAL: | | | 16 |

SPRING (Yr 2, Semester 4)

| Requirement | Course | Course Title | Units |
|---------------|-----------|--------------------------|-----------|
| LD Major | CHEM 112 | General Chemistry II | 3 |
| LD Major | CHEM 112L | General Chemistry II Lab | 2 |
| UD Major | BIOL 310 | Genetic Analysis I | 4 |
| A1 | | Student choice | 3 |
| ^C1 | | Student choice | 3 |
| TOTAL: | | | 15 |

FALL (Yr 3, Semester 5)

| Requirement | Course | Course Title | Units |
|---------------|----------|----------------------|--------------|
| UD Major | CHEM 331 | Organic Chemistry I | 5 |
| UD Major | BIOL 320 | Evolutionary Biology | 3 |
| ^C2 | | Student choice | 3 |
| ^D1/CODE 1 | | Student choice | 3 |
| ^F | | Student choice | 3 |
| TOTAL: | | | 17-18 |

SPRING (Yr 3, Semester 6)

| Requirement | Course | Course Title | Units |
|---------------|----------|--------------------------------------|-----------|
| UD Major | CHEM 332 | Organic Chemistry II | 5 |
| UD Major | BIOL 410 | Genetic Analysis II | 3 |
| UD Major | BIOL 425 | Techniques in Mammalian Cell Culture | 3 |
| ^C3 | | Student choice | 3 |
| ^D2/CODE 2 | | Student choice | 3 |
| TOTAL: | | | 17 |

FALL (Yr 4, Semester 7)

| Requirement | Course | Course Title | Units |
|---------------|----------|------------------------|-----------|
| UD Major | CHEM 441 | General Biochemistry I | 4 |
| UD Major | BIOL 424 | Bioinformatics | 3 |
| **UD Maj Elec | | Student Choice | 4 |
| ^UD-B | | Student Choice | 3 |
| UWR | | Student Choice | 3 |
| TOTAL: | | | 17 |

SPRING (Yr 4, Semester 8)

| Requirement | Course | Course Title | Units |
|---------------|----------|-----------------------------------|-----------|
| Capstone | BIOL 426 | Advanced Cellular & Molec Biology | 3 |
| UD Major | BIOL 427 | Advanced Cellular & Molec Bio Lab | 3 |
| UD Major | BIOL 428 | Genomics | 3 |
| ^UD-C | | Student choice | 3 |
| ^UD-D | | Student Choice | 3 |
| TOTAL: | | | 15 |

**Is a prerequisite for a required major course; does not count toward major unit count.*

***A minimum of 4 upper division elective units required*

^Courses that you can double count with one of the three required overlays (Diversity, Social Justice, Sustainability)

Note: Placement of GE courses are suggestions and may be moved following consultation with an advisor