

B.S. Biology, Biological Research Advising Worksheets^{\$}

General Studies:

Composition & Oral Communication Outcome (6-10 credit hours)

2-3 courses, grade of C or better required

| | | | |
|---------------------|-----|-----------------------------|---|
| ENG 101 and ENG 102 | —/— | COM 101 | — |
| OR | | (required for all students) | |
| ENG 103 | — | | |

Analysis Outcome (3 credit hours; 7-11 credit hours of MATH and BIO/CHEM/PHYS satisfied within major requirements)

Students must take one course:

| | | | |
|-------------------------|---|---------------------------|---|
| COM 203 (Arg/Debate) | — | LING 150 (Intro Ling) | — |
| ECON 103 (Microecon) | — | PHIL 210 (Logic) | — |
| FIN 131 (Financial Lit) | — | PSYC 101 (Intro to Psych) | — |

Cultural Literacy Outcome (18 credit hours)

Students must take courses from each literacy block as directed:

History (1 Course)

HIST 103, 104, 210, 211 —

Literature (1 Course)

ENG 202, 204, 205, 214, 215 —

Arts & Humanities (2 Courses)

1 courses from each group

GROUP I:

ART 140, 341, 343,

MUS 130, 132, 133, 134

THE 100, 300 —

GROUP II:

PHIL 201, 205

REL 250, 335

Any FREN or SPAN

SPA 252 —

Social Sciences (2 Courses)

2 courses from different groups

GROUP I:

GEO 205, 206 —

GROUP II:

POLS 101, 201, 202 —

GROUP III:

SOC 150, SWK 201 —

Core courses for Biological Research major:

Core Courses (25 credit hours):

| | | | | | |
|---|-----|------|--------------------------------|-----|------|
| BIO 124/125 [‡] (Prin Bio/lab) | —/— | (4h) | CHEM112/113 (Chem II/lab) | —/— | (4h) |
| BIO 208 (Found. Cell & Molec) | — | (3h) | MATH 145 [‡] (Precal) | — | (4h) |
| BIO 210 Biomedical Term | — | (3h) | BIO 221 Biostats | — | (3h) |
| CHEM 110/111 [‡] (Chem I/lab) | —/— | (4h) | | | |

[‡]Courses fulfill General Studies Analysis Outcome for Quantitative and Scientific blocks.

Required courses (27-30 credit hours):

| | | | |
|---------------------------|---------|--------------------------|---------|
| BIO 301 Writing Biol Sci | __ (3h) | BIO 321 Biotech II | __ (3h) |
| BIO 304 Biol Res Skills | __ (2h) | BIO 325/326 Micro & lab | __ (4h) |
| BIO 306 Biotechnology | __ (3h) | BIO 461 Molec Lab | __ (1h) |
| BIO 308 Animal Tissue Cul | __ (2h) | BIO 479 Research/Intern | __ (*) |
| BIO 318 Immunol lab | __ (1h) | BIO 483 Undergrad Res Th | __ (2h) |

Restricted Electives (9 credit hours required):

| | | | |
|---------------------------|---------|-----------------------------|---------|
| BIO 250 Biol. Programming | __ (3h) | BIO 432 Histology & Lab | __ (4h) |
| BIO 329 Applied Micro | __ (4h) | BIO 444 Fluores. Micro | __ (3h) |
| BIO 355 Bioinformatics I | __ (3h) | BIO 460 Molec Biol | __ (3h) |
| BIO 401 Genetics & lab | __ (4h) | BIO 455 Bioinformatics II** | __ (3h) |
| BIO 422 Phylogenetics | __ (3h) | CHEM 320/321 Analytical | __ (4h) |

*BIO 479 Research/Internship is required for a minimum of 6 credit hours and a maximum of 9 credit hours toward degree requirements

**BIO 455 Bioinformatics II will be offered as BIO 478 ST: Bioinformatics II until AY 2024-2025

General electives to total 120 credit hours (roughly 15-18h)