

Bachelor of Science in Biology

Microbiology Major Advising Worksheets^{\$}

General Studies for B.S. degree:

Communication Outcome (6-9 credit hours):

2-3 courses, grade of C or better required

ENG 101 and ENG 102 ___/___

OR

ENG 103 ___

COM 101 ___
(required for all students)

Analysis Outcome (20-21 credit hours; 11-12 credit hours satisfied within major requirements):

Students must take courses from each analytical block as directed:

Critical Reading (1 Course)

ENG 200-400 Literature, any ___

Economics/Finance (1 Course)

ECON 103, 104, OR FIN 131 ___

Logic/Critical Assessment (1 Course)

LING 150, PSYC 101 OR PHIL 210 ___

Self and Cultural Awareness Outcome (18 credit hours):

Students must take courses from each awareness block as directed:

Fine Arts (1 Course)

ART 140, 340, 341, 343,

FA 101, MUS 130, 132, 133,

THE 100, 300 ___

Perceptions & Cultures (5 Courses)

4 Courses from different groups

GEO 205, 206 ___

POLS 101, 201 ___

SOC 150, SWK 201 ___

REL, any ___

SPAN, FREN, SPA 252 ___

HE 250 ___

PHIL, any except PHIL210 ___

1 Course HIST

HIST 103, 104, 210, 211 ___

Microbiology Major:

Core Courses:

BIO 124/125[†] (Prin Bio/lab) ___/___(4h)

BIO 200 (Botany/lab) ___(4h)

BIO 202/203 (Zoology/lab) ___/___(4h)

CHEM 110/111[†] (Chem I) ___/___(4h)

CHEM 112/113 (Chem II) ___/___(4h)

PHYS 101/110 (Physics I) ___/___ (4h)

PHYS 102/111 (Physics II) ___/___(4h)

MATH 145[†] (Precal) ___ (3h)

BIO 221 (Biostats) ___ (3h)

[†] Courses fulfill General Studies Analysis Outcome, Quantitative and Scientific blocks.

Major Specific Courses:

BIO 208 (Found Cell & Molec) ___ (3h)

BIO 325/326 (Micro & lab) ___/___ (4h)

BIO 460/461 (Mol Bio/lab) ___/___ (4h)

BIO 480 (Capstone) ___ (1h)

Additional Requirements:

CHEM 340/341 (OChemI) ___/___ (4h)

CHEM 342/343 (OChemII) ___/___(4h)

CHEM 480 (Biochem I; F) ___(3h)

Restricted Electives- need 15h:

BIO 220 (Sci. Methods)	___(1h)	BIO 356 (Parasit/lab)	___/___(4h)
BIO 302/303 (A&P I)	___/___(4h)	BIO 401 (Genetics/lab)	___(4h)
BIO 306 (Biotech I)	___(3h)	BIO 421 (Epidemi)	___(3h)
BIO 317 (Immuno)	___(3h)	BIO 432 (Histo)	___(4h)
BIO 321 (Biotech II)	___(3h)	BIO 462 (Path)	___(3h)
BIO 328/334 (A&PII)	___/___(4h)	BIO 465 (Virology)	___(3h)
BIO 329 (Applied)	___(4h)	BIO 472 (Cell Bio)	___(3h)
BIO 338 (Med Bot)	___(3h)	BIO 479 (Intern; 1-3h)	___

Students must take an additional 9 credit hours of BIO 207 Funds of Ecology and Biodiversity and/or Biology 300-400 level Electives AND 300-400 General Electives to total 120 credit hours (2-7 credit hours)

- 120 credit hours are required to graduate from West Liberty with a B.S.; 40 of those hours must be 300-400 level courses.
- Major requires a cumulative 2.5 GPA in all math and sciences courses with at least a “C” in each course within the program.
- §These worksheets are to be used as a guide. Each student is responsible for their curriculum and meeting the requirements for graduation as stipulated in the college catalog.
- Courses may not be offered every semester and/or year; please consult with Biology advisor for sequencing.