

Bachelor of Science in Biology Microbiology Major 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:

<u>History (1 Course)</u>	<u>Literature (1 Course)</u>
HIST 103, 104, 210, 211	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

Microbiology Major:

Core Courses:

BIO 124/125 [‡] (Prin Bio/lab)	_/_(4h)	PHYS 101/110 (Physics I)_/_(4h)	
BIO 200 (Botany/lab)	_(4h)	PHYS 102/111 (Physics II)_/_(4h)	
BIO 202/203 (Zoology/lab)	_/_(4h)	MATH 145 [‡] (Precal)	_(4h)
CHEM 110/111 [‡] (Chem I)	_/_(4h)	BIO 221 (Biostats)	_(3h)
CHEM 112/113 (Chem II)	_/_(4h)		

[‡]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)	__ (2h)

Additional Requirements:

CHEM 340/341 (OChemI)	__/_ (4h)
CHEM 342/343 (OChemII)	__/_ (4h)
CHEM 480 (Biochem I; S)	__(3h)
	OR
BIO 470 (Biol Chem; F)	__(3h)

Restricted Electives- need 15h:

BIO 220 (Sci. Methods)	__(1h)	BIO 401 (Genetics/lab)	__(4h)
BIO 302/303 (A&P I)	__/_ (4h)	BIO 421 (Epidemi)	__(3h)
BIO 306 (Biotech I)	__(3h)	BIO 432 (Histo)	__(4h)
BIO 317 (Immuno)	__(3h)	BIO 444 (Fluor.Micro)	__(3h)
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)	__
BIO 356 (Parasit/lab)	__/_ (4h)		

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.
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- Courses may not be offered every semester and/or year; please consult with Biology advisor for sequencing.