

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	___, ___	COM 101	___
OR		(required for all students)	
ENG 103	___		

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

Students must take courses from each analytical block as directed:

<u>Critical Reading (1 Course)</u>	<u>Economics/Finance (1 Course)</u>
ENG 200-400 Literature, any	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:

<u>Fine Arts (1 Course)</u>	<u>Perceptions & Cultures (5 Courses)</u>
ART 140, 340, 341, 343,	4 Courses from different groups
FA 101, MUS 130, 132, 133, 134	GEO 205, 206
THE 100, 300	POLS 101, 201
___	SOC 150, SWK 201
	REL, any
	SPAN, FREN, SPA 252
	HE 250, 300
	PHIL, any except PHIL210

	1 Course HIST
	HIST 103, 104, 210, 211

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)

Additional Requirements:

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

BIO 325/326 (Micro & lab)___/___ (4h)	CHEM 342/343 (OChemII)___/___(4h)
BIO 460/461 (Mol Bio/lab)___/___ (4h)	CHEM 480 (Biochem I; S) ___(3h)
BIO 480 (Capstone) ___ (1h)	OR
	BIO 470 (Biol Chem; 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.