

Bachelor of Science in Biology  
Pre-Professional Major Advising Worksheets<sup>\$</sup>

**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
___	___
 <u>Logic/Critical Assessment (1 Course)</u>	
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 &amp; 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
	___

**Pre-Professional Major:**

Core Courses:

BIO 124/125 <sup>†</sup> (Prin Bio/lab)	___/___(4h)	CHEM 110/111 <sup>†</sup> (Chem I)	___/___(4h)
BIO 200 (Botany/lab)	___(4h)	CHEM 112/113 (Chem II)	___/___(4h)
BIO 202/203 (Zoology/lab)	___/___(4h)	PHYS 101/110 (Phys I)	___/___(4h)
BIO 207 (Funds Eco & Biodiv)	___ (3h)	PHYS 102/111 (Phys II)	___/___(4h)
OR		MATH 145 <sup>†</sup> (Precal)	___(4h)
BIO 208 (Found Cell & Molec)	___ (3h)	BIO 221 (Biostats)	___(3h)

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

Major Specific Courses:

BIO 302/303 (Anat I/lab)\_\_\_/\_\_(4h)    BIO 404/405 (Ecology/lab)\_\_\_/\_\_(4h)

OR

OR

BIO 426(Comp Phys/lab) \_\_\_/\_\_(4h)    BIO 472 (Cell Bio)                    \_\_\_(3h)

BIO 325/326 (Micro/lab) \_\_\_/\_\_(4h)    BIO 479 (Res/Intern; 1-3h)    \_\_\_

BIO 401 (Genetics/lab)                    \_\_\_(4h)    BIO 480 (Capstone)                    \_\_\_(1h)

BIO 460/461 (Mol Bio/lab)\_\_\_/\_\_(4h)

Additional Requirements:

CHEM 340/341 (OChem I)    \_\_\_/\_\_(4h)    CHEM 342/343(OChem II)\_\_\_/\_\_(4h)

CHEM 480 (Biochem I; S)    \_\_\_(3h)

OR

BIO 470 (Biol. Chem.; F)    \_\_\_(3h)

Students must take an additional 9 credit hours of BIO 207 OR BIO 208 (cannot double count with above choice) and/or Biology 300-400 level Electives AND 300-400 level General Electives to total 120 credit hours (2-10 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 every year; please consult with Biology advisor for sequencing.