

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           |
| ___   | ___                                 |
| <br><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.