Bachelor of Science in Biology

Microbiology Major Advising Worksheets$

**General Studies for B.S. degree:**

Communication Outcome (9 credit hours):

3 courses, grade of C or better required

ENG 101 \_\_

ENG 102 \_\_

COM 101 \_\_

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) Economics/Finance (1 Course)

ENG 200-400 Literature, any \_\_ ECON 103 OR FIN 131 \_\_

Logic/Critical Assessment (1 Course)

PSYC 101 OR PHIL 100-400, any \_\_

Self and Cultural Awareness Outcome (17-18 credit hours):

Students must take courses from each awareness block as directed:

Fine Arts (1 Course) Perceptions & Cultures (4 Courses)

ART 140, 340, 341, 343, 3 Courses from different groups

FA 101, MUS 130, 132, 133, GEO 205, 206 \_\_

THE 100, 300 \_\_ POLS 101, 201 \_\_

SOC 150, SWK 201 \_\_

Health and Wellness (1 Course) REL, SPAN, FREN, SPA 252 \_\_

HE 250, 253 \_\_

1 Course HIST

HIST 103, 104, 210, 211 \_\_

**Microbiology Major:**

Core Courses:

BIO 124/125ŧ (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 145ŧ (Precal) \_\_ (3h)

CHEM 110/111ŧ (Chem I) \_\_/\_\_(4h) BIO 221 (Biostats) \_\_ (3h)

CHEM 112/113 (Chem II) \_\_/\_\_(4h)

ŧCourses fulfill General Studies Analysis Outcome, Quantitative and Scientific blocks.

Major Specific Courses: Restricted Electives- need 15h:

BIO 325/326 (Micro & lab)\_\_/\_\_ (4h) BIO 220 (Sci. Methods) \_\_(1h)

BIO 460/461 (Mol Bio/lab)\_\_/\_\_(4h) BIO 306 (Biotech I) \_\_(3h)

BIO 480 (Capstone) \_\_ (1h) BIO 317 (Immuno) \_\_(3h)

BIO 321 (Biotech II) \_\_(3h)

Additional Requirements: BIO 329 (Applied) \_\_(4h)

CHEM 340/341 (OChemI)\_\_/\_\_ (4h) BIO 356 (Parasit/lab) \_\_(4h)

CHEM 342/343 (OChemII)\_\_/\_\_(4h) BIO 421 (Epidemi) \_\_(3h)

CHEM 480 (Biochem I; F)\_\_(3h) BIO 432 (Histo) \_\_(4h)

BIO 472 (Cell Bio) \_\_(3h)

BIO 462 (Path) \_\_(3h)

BIO 465 (Virology) \_\_(3h)

BIO 479 (Intern; 1-3h) \_\_

Students must take an additional 12 credit hours of Biology 300-400 level Electives AND 300-400 General Electives to total 120 credit hours (2-4 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.