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.