Bachelor of Science in Biology

Microbiology Major Advising Worksheets$

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

Communications (grade of C or better): Social & Behavioral Sciences:

ENG 101 (F/S) \_\_ HIS 103, 104, 210 or 211 \_\_

ENG 102 (F/S) \_\_ (1 course from each of 3 areas below)

COM 101 (F/S) \_\_ GEO 205, 206 \_\_

Fine Arts/Humanities: POLS 101, 201 \_\_

FA 101, ART 100, 140, 340, 343, SOC 150, SWK 201 \_\_

MUS 130, 132, 133, COM 203, PSYC 101 \_\_

THE 100, 300 (1 course) \_\_ Wellness/Phys Ed:

Literature (1 course) \_\_ PE 101 or 102 (1-2 courses) \_\_

Phil, For Lang, or Rel (1 course)\_\_ HE 250 or HE 253 \_\_

Business and Economics (1 course):

ECON 101, ECON 102,

GBUS 140, FIN 131 \_\_

**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) \_\_ (3h)

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

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

Major Specific Courses: Restricted Electives- need 15h:

BIO 325 (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) \_\_

Biology 300-400 level Electives to total 120 credit hours (14 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.