Bachelor of Science in Biology  
Microbiology Major Advising Worksheets

General Studies for B.S. degree:

Communications (grade of C or better):
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 ___

Social & Behavioral Sciences:
FA 101, ART 100, 140, 340, 343, 210 or 211 ___
PSYC 101 ___

Business and Economics (1 course):
ECON 101, ECON 102, GBUS 140 ___

Fine Arts/Humanities:
FA 101, ART 100, 140, 340, 343, 210 or 211 ___
SOC 150+, SWK 201+ ___

Literature (1 course) ___
Phil, For Lang, or Rel (1 course) ___

Wellness/Phys Ed:
PE 101 or 102 (1-2 courses) ___
HE 250 or HE 253 ___

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)  MATH 160 (Stats) ___(3h)
CHEM 112/113 (Chem II) ___/(4h)

Major Specific Courses:
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 (Immono) ___(3h)
BIO 321 (Biotech II) ___(3h)

Restricted Electives- need 15h:
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)

Additional Requirements:
BIO 329 (Applied) ___(4h)
CHEM 340/341 (OChemI)__/(4h)  BIO 432 (Histo) ___(4h)
CHEM 342/343 (OChemII)__/(4h)  BIO 472 (Cell Bio) ___(3h)
CHEM 480 (Biochem I: F)___(3h)

Biology 300-400 level Electives to total 120 credit hours

- "Course conflict: Physics II cannot be taken in the final year- conflicts with BIO 480 Capstone.
- 120 credit hours are required to graduate from West Liberty with a B.S.; 40 of those hours must be 300-400 level courses.

Revised 6/13/2013; effective Fall 2013
• **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.**