

WESTERN ILLINOIS UNIVERSITY – DEPARTMENT OF BIOLOGICAL SCIENCES
Bachelor of Science in Biology with a **MICROBIOLOGY** Option

FRESHMAN YEAR

<u>Fall</u>		<u>Spring</u>	
FYE (Zoology 200* or Botany 200*)	4	Botany 200* or Zoology 200*	4
Chemistry 101 or 201* ²	4	Chemistry 102 or 202*	4
Math 128 ³	3	English 180* ¹	3
Humanities Elective	3	Social Science Elective	3
Human Well Being or University 100	1-2	Humanities Elective (Fine Art) ⁶	3
	15-16 hr		17 hr

SOPHMORE YEAR

Microbiology 200*	4	Biology 330 (Cell Biology)	4
Physical Science Sequence (see below)	3-5	Physical Science Sequence (see below)	3-5
Chemistry 221 or 330 or 331	4-5	English 280* ¹	3
Statistics 171 (see below)	3	Social Science Elective	3
	14-17 hr	Minor Elective ⁵	3
			16-18 hr

JUNIOR YEAR

Biology 340 (Genetics)	4	Biology 350 (Ecology)	4
Humanities Elective (or Foreign Language) ⁴	3-4	Medical Microbiology Elective (see below)	3
Social Science Elective	3	Humanities Elective (or Foreign Language) ⁴	3-4
Minor Elective ⁵	3	Social Science Elective	3
	13-14 hr	Minor Elective ⁵	3
			16-16 hr

Recommended Time for General Record Exam (GRE)

SENIOR YEAR

Applied Microbiology Elective (see below)	3	Diversity Microbiology Elective (see below)	3
Microbiology Directed Elective (see below)	3	Microbiology Directed Elective (see below)	3
Communication 241 (Speech)	3	Human Well Being	2-3
Multicultural Elective	3	Minor Elective ⁵	3
Minor Elective ⁵	3	Minor Elective ⁵	3
	15 hr	BIOL 499 - Program Assessment Exam	0
			14-15 hr

1 – English 180 and 280 may be taken in either Fall or Spring Semester of the 1st (180) or 2nd year (280).

2 – Take Chem 100 before 201 if lacking high school chemistry or lacking a strong math background. Chemistry sequences: see below.

3 – Math placement is determined during orientation. Required classes are listed below. Some students may need to take more math to meet the prerequisites for the required courses. SEE ADVISOR.

4 – The foreign language/global issues graduation requirement may be fulfilled by successfully completing one of the following: 1) an intermediate foreign language requirement; 2) a General Education global issues course; 3) any major's discipline-specific global issues course; or 4) an approved study abroad program. SEE ADVISOR.

5 – Semester hours and/or number of elective courses may vary by minor.

6 – At least one Humanities Elective must be a Fine Art (see catalog)

*-These classes require the student to earn a C or better to pass

Major Required Courses (33)

BOT 200_____(4)
 ZOOL 200_____(4)
 MICR 200_____(4)
 BIOL 330_____(4)
 BIOL 340_____(4)
 BIOL 350_____(4)

Diversity Microbiology

MICR 400, 401, 404, OR 423_____(3)

Applied Microbiology

BIOL 466, MICRO 451 OR 465_____(3)

Medical Microbiology

MICR 405, 434, 460, 463, 464_____(3)

Microbiology Directed Electives (6)

MICR_____(3)

MICR_____(3)

(BIOL 312, 418, 466, 470, 477, 478, 495; MICR 400, 401, 404, 405, 423, 434, 451, 460, 463, 464, 465, 476)

Chemistry Sequence (12-13)

CHEM 101_____(4)

CHEM 102_____(4)

CHEM 221_____(4);

OR

CHEM 201_____(4)

CHEM 202_____(4)

CHEM 330 or 331_____(5)

Pick 1 of the above sequences

Physical Science Sequence (6-10)

PHYS 114____(4) 115____(4)

OR

PHYS 124____(5) 125____(5)

OR

METR 120____(4) GEOG 121____(4)

OR

GIS 202____(4) 405____(3)

OR

GEOG 110____(4) 112____(4) 113____(3)

115____(3) (Pick 2 of the 4 courses)

Mathematics (6-7)

Math 128____(3) AND Stat 171____(3) OR Math 133(4).

This major requires a minor. See advisor for complementary minors.