

Iowa Western Community College to ISU transfer guide for Microbiology BS
Courses to be completed at Iowa Western **Courses to be completed at ISU for 2018-2019 catalog**

<u>Strongly recommended</u>	<u>English, Math & Science Courses</u>		<u>Microbiology</u>		
ENG 105 & 106	Composition 1 & 2	6	Micro 110	Orientation in Micro	1
BIO 112 & 113	General Biology 1 & 2	8	Micro 302 ²	Biology of Microorganisms ²	3
CHM 166, 166 Lab & CHM 176 ¹	General Chemistry 1 & 2	9	Micro 310, L	Medical Micro with Lab	4
CHM 263, 263 Lab & CHM 273 ¹	Organic Chemistry 1 & 2	8	Micro 320	Molecular and Cellular Bacteriology	4
MAT 157	Statistics	3	Micro 430 or	Micro Diversity & Ecology	
MAT 211 & 217 ¹	Calculus 1 & 2	5 each	Micro 456 or	Mycology	3
SPC 112	Public Speaking	3	Micro 477	Bacterial-Plant Interactions	
<u>General Education</u>	Requirements		Micro 440	Microbial Physiology, Div., & Genetics Lab	4
<i>Humanities – Pick 1</i>			Micro 450	Microbiology Seminar	2
HIS 110	Western Civilization: Ancient to Modern	3	Micro 451	Microbiology Senior Survey	R
HIS 111	Western Civilization: Modern to Present	3	Micro	Micro Choice	3
HIS 151	US History to 1877	3	Micro	Micro Choice	3
HIS 152	US History since 1877	3	Micro	Micro Choice	3
MUS 100	Music Appreciation	3	<u>Physical Sciences</u>		
PHI 101	Introduction to Philosophy	3	BBMB 301 or	Survey Biochemistry	3
REL 101	Survey of World Religions	3	BBMB 336 or	Principles of Biochemistry	3
<i>Ethics</i>			BBMB 404 or 405	Biochemistry 1 & 2	3 each
PHI 105	Introduction to Ethics	3	<u>Biological Sciences</u>		
<i>Social Science – Pick 1</i>			Bio 313, L	Genetics with Lab	4
ANT 105	Cultural Anthropology	3	Bio 314 or 328	Cell Biology	3
CRJ 100	Introduction to Criminal Justice	3	<u>English – Pick 1 course</u>		
ECN 120	Principles of Macroeconomics	3	Engl 302	Business Communications	3
ECN 130	Principles of Microeconomics	3	Engl 309	Proposal and Report Writing	3
POL 111	American National Government	3	Engl 312	Biological Communications	3
PSY 111	Introduction to Psychology	3	Engl 314	Technical Communications	3
PSY 121	Developmental Psychology	3	<u>Personal Development</u>		
PSY 251	Social Psychology	3	Int'l Perspective		3
SOC 110	Introduction to Sociology	3	US Diversity		3
SOC 120	Marriage and Family	3			
	65 cr. Limit that can apply to BS		Electives		
<u>Recommended Preparation</u>				To reach 128 total credits	
Bio 186	Microbiology with Lab	4			

¹Students intending to double major in Micro/Biochemistry or Micro/Genetics should take Mat 211 and Mat 217 and CHM 176 Lab and CHM 273 Lab at IWCC

²Bio 186 lab at Iowa Western counts as Micro 302 Lab at ISU

The Course numbers may vary somewhat from school to school. Double check the ISU Course Equivalency guides

(<http://www.admissions.iastate.edu/equiv/index.php?state=iowa>)