

Northwest Iowa Community College to ISU transfer guide for Microbiology BS

Courses to be completed at Northwest Iowa

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 102,103, 106 & 107	General Biology 1 & 2	8	Micro 302, 302 L ²	Biology of Microorganisms ² 3
CHM 163, 164, and 173 ¹	General Chemistry 1 & 2	7	Micro 310, L	Medical Micro with Lab 4
MAT 156	Statistics	3	Micro 320	Molecular and Cellular Bacteriology 4
MAT 210-211 & 216 ¹	Calculus 1 & 2	4 each	Micro 430 or	Micro Diversity & Ecology
PHYS 156, 157, 158 & 159	College Physics 1 & 2 and Labs	10	Micro 456 or	Mycology 3
SPC 112	Public Speaking	3	Micro 477	Bacterial-Plant Interactions
			Micro 440	Microbial Physiology, Div., & Genetics Lab 4
<u>General Education</u>	Requirements		Micro 450	Microbiology Seminar 2
<i>Humanities – Pick 1</i>			Micro 451	Microbiology Junior Survey R
ART 203	Art History 1	3	Micro	Micro Choice 3
DRA 101	Introduction to Theater	3	Micro	Micro Choice 3
HIS 110	Western Civilization: Ancient to EM	3	Micro	Micro Choice 3
HIS 111	Western Civilization: EM to Present	3		
HIS 151	US History to 1877	3	<u>Physical Sciences</u>	
HIS 152	US History since 1877	3	BBMB 301 or	Survey Biochemistry 3
PHI 101	Introduction to Philosophy	3	BBMB 336 or	Principles of Biochemistry 3
REL 101	Survey of World Religions	3	BBMB 404 or 405	Biochemistry 1 & 2 3 each
		3		
<i>Ethics</i>			<u>Biological Sciences</u>	
PHI 105	Introduction to Ethics	3	Bio 313, L	Genetics with Lab 4
			Bio 314 or 328	Cell Biology 3
<i>Social Science – Pick 1</i>				
AGB 235	Introduction to Ag Markets		<u>English – Pick 1 course</u>	
ANT 101	Cultural Anthropology	3	Engl 302	Business Communications 3
SOC 230	Juvenile Delinquency	3	Engl 309	Proposal and Report Writing 3
ECN 120	Principles of Macroeconomics	3	Engl 312	Biological Communications 3
ECN 130	Principles of Microeconomics	3	Engl 314	Technical Communications 3
POL 111	American National Government	3		
PSY 251	Social Psychology	3	<u>Personal Development</u>	
SOC 110	Introduction to Sociology	3	Int'l Perspective	3
SOC 115	Social Problems	3	US Diversity	3
SOC 120	Marriage and Family	3	Lib 160	1
		3	Electives	
	65 cr. Limit that can apply to BS			To reach 128 total credits
<u>Recommended Preparation</u>				
BIO 186	Microbiology with Lab	4		

¹Students intending to double major in Micro/Biochemistry or Micro/Genetics should take Mat 210 and Mat 216 and CHM 176 Lab at NWICC

²Bio 186 at Northwest counts as Micro 302 Lab at ISU

The Course numbers may vary somewhat. Double check the ISU Course Equivalency guides (<http://www.admissions.iastate.edu/equiv/index.php?state=iowa>)