

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 2021-2022 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 4
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 128 or 129	Precalculus	4 or 5	Environmental Micro	430 Micro Diversity & Ecology OR 456 Mycology OR 477 Bacterial-Plant Interactions 3
MAT 210-211 ¹	Calculus 1	4 or 5	Micro 440	Microbial Physiology, Div., & Genetics Lab 4
PHYS 156, 157, 158 & 159	College Physics 1 & 2 and Labs	10	Micro 450	Microbiology Seminar 2
SPC 112	Public Speaking	3	Micro 451	Microbiology Junior Survey R
			Micro electives	Micro Choices 9
<u>General Education</u>			<u>Biochemistry</u>	(Minimum of 3 credits)
<i>Humanities – Pick 1</i>			BBMB 301 or	Survey Biochemistry 3
ART 203	Art History 1	3	BBMB 336 or	Principles of Biochemistry 3
DRA 101	Introduction to Theater	3	BBMB 404 and 405	Biochemistry 1 & 2 6
HIS 110	Western Civilization: Ancient to EM	3		
HIS 111	Western Civilization: EM to Present	3	<u>Biological Sciences</u>	
HIS 151	US History to 1877	3	Bio 313, L	Genetics with Lab 4
HIS 152	US History since 1877	3	Bio 314 or 328	Molecular Biology 3
PHI 101	Introduction to Philosophy	3		
REL 101	Survey of World Religions	3	<u>English – Pick 1 course</u>	
<i>Ethics</i>			Engl 302	Business Communications 3
PHI 105	Introduction to Ethics	3	Engl 309	Proposal and Report Writing 3
<i>Social Science – Pick 1</i>			Engl 312	Biological Communications 3
AGB 235	Introduction to Ag Markets	3	Engl 314	Technical Communications 3
ANT 101	Cultural Anthropology	3		
ECN 120	Principles of Macroeconomics	3	<u>Personal Development</u>	
ECN 130	Principles of Microeconomics	3	Int'l Perspective	3
POL 111	American National Government	3	US Diversity	3
PSY 251	Social Psychology	3	Lib 160	1
SOC 110	Introduction to Sociology	3	Electives	
SOC 115	Social Problems	3		
SOC 120	Marriage and Family	3		
				To reach 128 total credits
<u>Recommended Preparation</u>				
BIO 186	Microbiology with Lab	4		
	65 cr. Limit that can apply to BS			

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. If the Micro 186 lab was not face to face, recommend taking Micro 302Lab 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>)