

Iowa Lakes Community College to ISU transfer guide for Microbiology BS

Courses to be completed at Iowa Lakes

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 112 & 113	General Biology 1 & 2	8	Micro 302, L	Biology of Microorganisms ² 4
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 156 or 157	Statistics	3 or 4	Environmental Micro	430 Micro Diversity & Ecology OR 456 Mycology OR 3 477 Bacterial-Plant Interactions
MAT 127	College Algebra & Trig	5	Micro 440	Microbial Physiology, Div., & Genetics Lab 4
MAT 211	Calculus 1	5	Micro 450	Microbiology Seminar 2
PHYS 162 & 172	College Physics 1 & 2	10	Micro 451	Microbiology Senior Survey R
SPC 112	Public Speaking	3	Micro electives	Micro Choices 9
<u>General Education</u>			<u>Biochemistry</u>	(Minimum 3 credits)
<i>Humanities – Pick 1</i>			BBMB 301 or	Survey Biochemistry 3
HIS 110	Western Civilization: Ancient to Modern	3	BBMB 336 or	Principles of Biochemistry 3
HIS 111	Western Civilization: Modern to Present	3	BBMB 404 and 405	Biochemistry 1 & 2 6
HIS 151	US History to 1877	3	<u>Biological Sciences</u>	
HIS 152	US History since 1877	3	Bio 313, L	Genetics with Lab 4
MUS 100	Music Appreciation	3	Bio 314 or 328	Molecular Biology 3
PHI 101	Introduction to Philosophy	3	<u>English – Pick 1 course</u>	
REL 101	Survey of World Religions	3	Engl 302	Business Communications 3
<i>Ethics</i>			Engl 309	Proposal and Report Writing 3
PHI 105	Introduction to Ethics	3	Engl 312	Biological Communications 3
<i>Social Science – Pick 1</i>			Engl 314	Technical Communications 3
ANT 105	Cultural Anthropology	3	<u>Personal Development</u>	
CRJ 100	Introduction to Criminal Justice	3	Int'l Perspective	3
ECN 120	Principles of Macroeconomics	3	US Diversity	3
ECN 130	Principles of Microeconomics	3	Electives	
POL 111	American National Government	3		
PSY 121	Developmental Psychology	3		
PSY 251	Social Psychology	3		
SOC 110	Introduction to Sociology	3		
SOC 120	Marriage and Family	3		
	65 cr. Limit that can apply to BS			To reach 128 total credits
<u>Recommended Preparation</u>				
Bio 186	Microbiology (Includes 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 ILCC

²Bio 186 lab at Iowa Lakes counts as Micro 302 Lab at ISU. If the Bio 186 lab was not in person, then we recommend taking 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>)