

Iowa Central Community College to ISU transfer guide for Microbiology BS

Courses to be completed at Iowa Central

Courses to be completed at ISU for 2021-2022 catalog

<u>Strongly recommended</u>	<u>English, Math & Science Courses</u>		<u>Microbiology</u>		
English 105 & 106	Composition 1 & 2 & Library	6	Micro 110	Orientation in Micro	1
BIO 112 & 113 with labs	General Biology 1 & 2	8	Micro 302, L	Biology of Microorganisms ²	4
CHM 165, 165 Lab & 175 ¹	General Chemistry 1 & 2	7	Micro 310, L	Medical Micro with Lab	4
CHM 261 & 271	Organic Chemistry 1 & 2	8	Micro 320	Molecular and Cellular Bacteriology	4
MAT 156 or 157	Statistics	3 or 4	Micro 430 or	Micro Diversity & Ecology	
MAT 127	College Algebra & Trig	5	Micro 456 or	Mycology	3
MAT 210	Calculus 1	4	Micro 477	Bacterial-Plant Interactions	
PHY 162 & 172	College Physics 1 & 2	8	Micro 440	Microbial Physiology, Div., & Genetics Lab	4
SPC 112	Fundamentals of Oral Communication	3	Micro 450	Microbiology Seminar	2
			Micro 451	Microbiology Senior Survey	R
			Micro electives	Micro Choices	3
<u>General Education</u>	Requirements		<u>Biochemistry</u>	(Minimum 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
HIS 151	US History to 1877	3	BBMB 404 and 405	Biochemistry 1 & 2	6
HIS 152	US History since 1877	3			
MUS 104	Exploring Music	3	<u>Biological Sciences</u>		
PHI 101	Introduction to Philosophy	3	Bio 313, L	Genetics with Lab	4
DRA 101	Theatrical Arts and Society	3	Bio 314 or 328	Molecular Biology	3
REL 105	Introduction to Religions	3			
<i>Ethics</i>			<u>English – Pick 1 course</u>		
PHI 145	Introduction to Ethical Conflicts	3	Engl 302	Business Communications	3
			Engl 309	Proposal and Report Writing	3
<i>Social Science – Pick 1</i>			Engl 312	Biological Communications	3
ANT 105	Cultural Anthropology	3	Engl 314	Technical Communications	3
ECN 120	Principles of Macroeconomics	3			
ECN 130	Principles of Microeconomics	3	<u>Personal Development</u>		
POL 111	American National Government	3	Int'l Perspective		3
PSY 111	Introduction to Psychology	3	US Diversity		3
PSY 121	Developmental Psychology	3			
SOC 110	Introduction to Sociology	3	Electives		
SOC 115	Social Problems	3			
SOC 120	Marriage and Family	3			
	65 cr. Limit that can apply to BS				
<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 210 and Mat 216 and CHM 175 Lab at Iowa Central

²Bio 186 at Iowa Central counts as Micro 302Lab, but if lab was not face to face, recommend student take 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>)