

**Kirkwood Community College to ISU transfer guide for Microbiology BS**

**Courses to be completed at Kirkwood**

**Courses to be completed at ISU for 2021-2022 catalog**

<b><u>Strongly recommended</u></b>	<b><u>English, Math &amp; Science Courses</u></b>		<b><u>Microbiology</u></b>		
English 105 & 106	Composition 1 & 2	6	Micro 110	Orientation in Micro	1
BIO 112 & 113 with labs	General Biology 1 & 2	8	Micro 302, L	Biology of Microorganisms <sup>2</sup>	4
BIO 186	Microbiology & Lab	4	Micro 310, L	Medical Micro with Lab	4
CHM 165, 165 Lab & 175 <sup>1</sup>	General Chemistry 1 & 2	7	Micro 320	Molecular and Cellular Bacteriology	4
CHM 262 & 272 <sup>1</sup>	Organic Chemistry 1 & 2	7.5	Environmental Micro	430 Micro Diversity & Ecology OR	
MAT 157	Statistics	3		456 Mycology OR	3
MAT 210 <sup>1</sup>	Calculus 1	4		477 Bacterial-Plant Interactions	
PHYS 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 Capstone Seminar	2
			Micro 451	Microbiology Junior Survey	R
			Micro electives	Micro Choices	9
<b><u>General Education</u></b>	<b>Requirements</b>		<b><u>Biochemistry</u></b>	(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
HIS 151	US History to 1877	3	BBMB 404 and 405	Biochemistry 1 & 2	3 each
HIS 152	US History since 1877	3			
MUS 100	Music Appreciation	3	<b><u>Biological Sciences</u></b>		
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 101	Survey of World Religions	3			
<i>Ethics</i>			<b><u>English – Pick 1 course</u></b>		
PHI 230	Introduction to Ethics	3	Engl 302	Business Communications	3
<i>Social Science – Pick 1</i>			Engl 309	Proposal and Report Writing	3
ANT 105	Cultural Anthropology	3	Engl 312	Biological Communications	3
ECN 120	Principles of Macroeconomics	3	Engl 314	Technical Communications	3
ECN 130	Principles of Microeconomics	3			
POL 111	American National Government	3	<b><u>Personal Development</u></b>		
PSY 111	Introduction to Psychology	3	Int'l Perspective		3
PSY 121	Developmental Psychology	3	US Diversity		3
SOC 110	Introduction to Sociology	3	Lib 160		1
SOC 115	Social Problems	3			
SOC 120	Marriage and Family	3	Electives	<b>To reach 128 total credits</b>	
	<b>65 cr. Limit that can apply to BS</b>				

<sup>1</sup>Students intending to double major in Micro/Biochemistry or Micro/Genetics should take Mat 210 and Mat 216 and CHM 175 Lab at Kirkwood

<sup>2</sup>Bio 186 at Kirkwood counts as Micro 302 Lab at ISU, but if the lab was not in person, recommend student takes Micro 302Lab 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>)