

Iowa Valley Community College (Marshalltown) to ISU transfer guide for Microbiology BS
Courses to be completed at IA Valley **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, 302L ²	Biology of Microorganisms with Lab	4
CHM 165, 165 Lab & 175 ¹	General Chemistry 1 & 2	7	Micro 310, L	Medical Micro with Lab	4
CHM 261, 261 Lab & 271 ¹	Organic Chemistry 1 & 2	7	Micro 320	Molecular and Cellular Bacteriology	4
MAT 156	Statistics	3	Environmental Micro	430 Micro Diversity & Ecology OR 456 Mycology OR 477 Bacterial-Plant Interactions	3
MAT 129	Precalculus	3	Micro 440	Microbial Physiology, Div., & Genetics Lab	4
MAT 210	Calculus 1	4	Micro 450	Microbiology Seminar	2
PHYS 162 & 172	College Physics 1 & 2	8	Micro 451	Microbiology Junior Survey	R
SPC 112	Public Speaking	3	Micro	Micro Choice	3
			Micro	Micro Choice	3
			Micro	Micro Choice	3
<u>General Education</u>	Requirements		<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
HIS 112	Western Civilization: Ancient to EM	3	BBMB 404 and 405	Biochemistry 1 & 2	6
HIS 113	Western Civilization: EM to Present	3			
LIT 101	Introduction to Literature	3	<u>Biological Sciences</u>		
MUS 100	Music Appreciation	3	Bio 313, L	Genetics with Lab	4
PHI 101	Introduction to Philosophy	3	Bio 314 or 328	Molecular Biology	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
			Engl 312	Biological Communications	3
<i>Social Science – Pick 1</i>			Engl 314	Technical Communications	3
ANT 105	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			
	65 cr. Limit that can apply to BS				
<u>Recommended Preparation</u>				To reach 128 total credits	
Bio 186 ²	Microbiology (Includes lab)	4			

¹ Students intending to double major in Micro/Biochemistry or Micro/Genetics should take Mat 210 and Mat 216 and CHM 176 Lab and CHM 271 Lab at Iowa Valley

² Credit for Bio 186 at DMACC 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>)