DMACC to ISU transfer guide for Microbiology BS

Courses to be completed at DMACC			Courses to be completed at ISU for 2021-2022 Catalog		
Recommended Math & Science Courses			**Microbiology Coursework**		
Eng 105 & 106	Composition I & 2	6	Micro 110	Orientation in Micro	1
Bio 112 & 113	Principles of Biology I & II with lab	8	Micro 101	Microbial World	3
CHM 165 & 175	General Inorganic Chemistry I &2, with Labs	8	Micro 302, L	General Micro with Lab	4
SPC 101	Fundamentals of Speech or Public Speaking	3	Micro 310, L	Medical Micro with Lab	4
CHM 263 & 273	Organic Chemistry I & II with Labs	10	Micro 320	Microbial Physiology & Genetics	3
MAT 157	Statistics	4	Micro 430 or 477 or 456	Micro Diversity	3
MAT 129	Precalculus	5	Micro 440	Microbial Genetics & Physiology Lab	3
MAT 211	Calculus I	5	Micro 450	Microbiology Seminar	2
PHY 160 & 161	College Physics I & II	10	Micro 451	Microbiology Junior Survey	R
			Micro electives	Micro Choice	9
Recommended General Education Courses			**Biochemistry** (minimum of 3 credits)		
Humanities Pick 1 course			BBMB 301 or	Survey of Biochemistry	3
DRA 101	Intro to Theatre	3	BBMB 336 or	Principles of Biochemistry	3
HIS 112	Western Civilization	3	BBMB 404 and 405	Biochemistry 1 & 2	6
LIT 101	Intro to Literature	3			
MUS 100	Music Appreciation	3	**Biological Sciences**		
REL 101	Survey of World Religions	3	Biol 313 & L	Genetics with Lab	4
			Biol 314 or 328	Molecular Biology	3
Ethics Pick 1 course					
PHI 105	Introduction to Ethics	3	**English – *Pick 1 course***		
			Engl 302	Business Communications	3
Social Science Pick 1 Course			Engl 309	Proposal and Report Writing	3
ANT 105	Cultural Anthropology	3	Engl 312	Biological Communications	3
PSY 111	General Psychology	3	Engl 314	Technical Communications	3
PSY 121	Developmental Psychology	3			
SOC 110	Introduction to Sociology	3	**Personal Development Courses and Electives**		
SOC 115	Social Problems	3	International Perspectives		3
SOC 120	Marriage and Family	3	US Diversity		3
POL 111	American National Government	3			
POL 121	International Relations	3			
ECN 120	Principles of Macroeconomics	3			
ECN 130	Principles of Microeconomics	3			
	65 cr. Limit that can apply to BS		Electives	To reach 128 credits total	
Recommended Preparation Course					
BIO 186	Microbiology	4			

[1] 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) 3/2021