North Iowa Area Community College to ISU transfer guide for Microbiology BS

Courses to be completed at NIACC

Strongly recommended	**English, Math & Science Courses**	
ENG 105 & 106	Composition 1 & 2	6
BIO 202 & 203	General Biology 1 & 2	8
CHM 166, 166 Lab & 176 [1]	General Chemistry 1 & 2	9
CHM 263, 263 Lab & 273 [1]	Organic Chemistry 1 & 2	8
MAT 156	Statistics	3
MAT 128	Precalculus	4
MAT 210 [1]	Calculus 1	4
PHYS 162 & 172	College Physics 1 & 2	8
SPC 112	Public Speaking	3
General Education	Requirements	
Humanities – Pick 1		
ART 203	Art History I	3
ENG 201	Introduction to Literature	3
HIS 112	Western Civilization: Ancient to EM	4
HIS 113	Western Civilization: EM to Present	4
HIS 151	US History to 1877	3
HIS 152	US History since 1877	3
PHI 101	Introduction to Philosophy	3
Ethics		
PHI 105	Introduction to Ethics	3
Social Science – Pick 1		
CRJ 201	Introduction to Criminal Justice	3
POL 111	American National Government	3
PSY 251	Social Psychology	3
SOC 110	Introduction to Sociology	3
SOC 115	Social Problems	3
SOC 120	Marriage and Family	3
	65 cr. Limit that can apply to BS	
Recommended Preparation		
BIO 186 [2]	Microbiology (with Lab)	4

Courses to completed at ISU for 2021-2022 catalog

Microbiology		
Micro 110	Orientation in Micro	1
Micro 302, 302L [1]	Biology of Microorganisms with Lab	4
Micro 310, L	Medical Micro with Lab	4
Micro 320	Molecular and Cellular Bacteriology	4
Environmental Micro	430 Micro Diversity & Ecology OR	
	456 Mycology OR	3
	477 Bacterial-Plant Interactions	
Micro 440	Microbial Physiology, Div., & Genetics Lab	4
Micro 450	Microbiology Seminar	2
Micro 451	Microbiology Junior Survey	R
Micro electives	Micro Choices	9
Biochemistry	(Minimum of 3 credits)	
BBMB 301 or	Survey Biochemistry	3
BBMB 336 or	Principles of Biochemistry	3
BBMB 404andr 405	Biochemistry 1 & 2	6
Biological Sciences		
Bio 313, L	Genetics with Lab	4
Bio 314 or 328	Molecular Biology	3
English – Pick 1 course		
Engl 302	Business Communications	3
Engl 309	Proposal and Report Writing	3
Engl 312	Biological Communications	3
Engl 314	Technical Communications	3
Personal Development		
Int'l Perspective		3
US Diversity		3
Lib 160		1
Electives	**To reach 128 total credits**	

[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 North Iowa Area Community College

[2] Bio 186 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