

Iowa Western Community College to ISU transfer guide for Microbiology BS
Courses to be completed at Iowa Western **Courses to be completed at ISU for 2021-2022 catalog**

<p><u>Strongly recommended</u></p> <p>ENG 105 & 106 BIO 112 & 113 CHM 166, 166 Lab & CHM 176 ¹ CHM 263, 263 Lab & CHM 273 ¹ MAT 157 MAT 129 MAT 211 ¹ SPC 112</p> <p><u>General Education</u></p> <p><i>Humanities</i> – Pick 1</p> <p>HIS 110 HIS 111 HIS 151 HIS 152 MUS 100 PHI 101 REL 101</p> <p><i>Ethics</i></p> <p>PHI 105</p> <p><i>Social Science</i> – Pick 1</p> <p>ANT 105 CRJ 100 ECN 120 ECN 130 POL 111 PSY 111 PSY 121 PSY 251 SOC 110 SOC 120</p> <p><u>Recommended Preparation</u></p> <p>Bio 186</p>	<p><u>English, Math & Science Courses</u></p> <p>Composition 1 & 2 General Biology 1 & 2 General Chemistry 1 & 2 Organic Chemistry 1 & 2 Statistics Precalculus Calculus 1 Public Speaking</p> <p>Western Civilization: Ancient to Modern Western Civilization: Modern to Present US History to 1877 US History since 1877 Music Appreciation Introduction to Philosophy Survey of World Religions</p> <p>Introduction to Ethics</p> <p>Cultural Anthropology Introduction to Criminal Justice Principles of Macroeconomics Principles of Microeconomics American National Government Introduction to Psychology Developmental Psychology Social Psychology Introduction to Sociology Marriage and Family</p> <p>65 cr. Limit that can apply to BS</p> <p>Microbiology with Lab</p>	<p><u>Microbiology</u></p> <p>Micro 110 Micro 302, L ² Micro 310, L Micro 320 Environmental Micro Micro 440 Micro 450 Micro 451 Micro electives</p> <p><u>Biochemistry</u></p> <p>(Minimum of 3 credits)</p> <p>BBMB 301 or BBMB 336 or BBMB 404 and 405</p> <p><u>Biological Sciences</u></p> <p>Bio 313, L Bio 314 or 328</p> <p><u>English</u> – Pick 1 course</p> <p>Engl 302 Engl 309 Engl 312 Engl 314</p> <p><u>Personal Development</u></p> <p>Int'l Perspective US Diversity</p> <p>Electives</p> <p style="text-align: right;">To reach 128 total credits</p>	<p>Orientation in Micro Biology of Microorganisms ² Medical Micro with Lab Molecular and Cellular Bacteriology 430 Micro Diversity & Ecology OR 456 Mycology OR 477 Bacterial-Plant Interactions Microbial Physiology, Div., & Genetics Lab Microbiology Seminar Microbiology Senior Survey Micro Choice</p> <p>Survey Biochemistry Principles of Biochemistry Biochemistry 1 & 2</p> <p>Genetics with Lab Molecular Biology</p> <p>Business Communications Proposal and Report Writing Biological Communications Technical Communications</p>
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¹Students intending to double major in Micro/Biochemistry or Micro/Genetics should take Mat 211 and Mat 217 and CHM 176 Lab and CHM 273 Lab at IWCC

²Bio 186 lab at Iowa Western counts as Micro 302 Lab at ISU. If the lab was not in person, recommend taking 302L 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>)