

**Iowa Community College¹ to ISU transfer guide for Microbiology BS
General Guide**

Courses to be completed at Community College for 2014-15 ISU Catalog	Courses to be completed at ISU for 2014-15 Catalog
<p>Strongly Recommended English, Math & Science Courses</p> <p>ENG 105 & 106 Composition I & 2 6</p> <p>BIO 112 & 113 General Biology I & II with labs 8</p> <p>CHM 165 & 175 General Chemistry I &2, with Labs 8</p> <p>SPC 101 or 112 Public Speaking 3</p> <p>CHM 261 & 271 Organic Chemistry I & II with Labs 10</p> <p>MAT 156 or 157 Statistics 4</p> <p>MAT 210¹ Calculus I 8</p> <p>PHYS 162 & 172 College Physics I & II 8</p> <p>General Education Requirements</p> <p><i>Humanities Pick 1 course</i></p> <p>LIT 101 Introduction to Literature 3</p> <p>HIS 112 Western Civilization 3</p> <p>HIS 113 Western Civilization: Early Mod to Now 3</p> <p>REL 105 Survey of World Religions 3</p> <p>MUS 104² Exploring Music 3</p> <p>DRA 101 Intro to Theater 3</p> <p><i>Ethics</i></p> <p>PHI 105 Intro to Ethical Conflict 3</p> <p><i>Social Science Pick 1 Course</i></p> <p>PSY 111 Introduction to Psychology 3</p> <p>PSY 121 Developmental Psychology 3</p> <p>PSY 251 Social Psychology 3</p> <p>SOC 110 Introduction to Sociology 3</p> <p>SOC 115 Social Problems 3</p> <p>ECN 120 Principles of Macroeconomics 3</p> <p>ECN 130 Principles of Microeconomics 3</p> <p>ANT 105³ Cultural Anthropology 3</p>	<p>Microbiology Coursework</p> <p>Micro 110 Orientation in Micro 1</p> <p>Micro 302, L General Micro with Lab 4</p> <p>Micro 310, L Medical Micro with Lab 4</p> <p>Micro 320 Microbial Physiology & Genetics 3</p> <p>Micro 430 or 477 or</p> <p>Micro 456 Micro Diversity 3</p> <p>Micro 440 Microbial Genetics, Physiology, Diversity Lab 3</p> <p>Micro 450 Microbiology Seminar 1</p> <p>Micro 451 Microbiology Senior Survey R</p> <p>Micro Micro Choice 3</p> <p>Micro Micro Choice 3</p> <p>Micro Micro Choice 3</p> <p>Physical Sciences</p> <p>BBMB 301 Survey Biochem 3</p> <p>Biological Sciences</p> <p>Biol 313, L Genetics with Lab 4</p> <p>Biol 314 Cell Biology 4</p> <p>English</p> <p>Engl 302 Business Communications 3</p> <p>Personal Development Courses and Electives</p> <p>Psych 131 Study Skills 1</p> <p>International Perspectives 3</p> <p>US Diversity 3</p> <p>Electives To reach 128 credits total</p>

¹ The Course numbers may vary somewhat from school to school. If there is a mis-match, follow the course title over the number. If in doubt, double check on the ISU Course equivalency guides (<http://www.admissions.iastate.edu/equiv/index.php?state=iowa>)

²Students intending to double major in Micro/Biochemistry or Micro/Genetics should take MAT 210 & 216 (Calc I & II)

³ MUS 104 (Exploring Music) will fulfill BOTH the humanities and International Perspectives requirements

⁴ ANT 105 (Cultural Anthropology) will fulfill BOTH the social sciences and International Perspectives requirements