<table>
<thead>
<tr>
<th><strong>Strongly recommended</strong></th>
<th><strong>English, Math &amp; Science Courses</strong></th>
<th><strong>Microbiology</strong></th>
<th><strong>Credit</strong></th>
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<tbody>
<tr>
<td>ENG 105 &amp; 106</td>
<td>Composition 1 &amp; 2</td>
<td>Micro 110</td>
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<tr>
<td>BIO 112 &amp; 113</td>
<td>General Biology 1 &amp; 2</td>
<td>Micro 302</td>
<td>3</td>
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<tr>
<td>CHM 160, 161 &amp; 170⁴</td>
<td>Chemistry 1 &amp; 2 &amp; Lab</td>
<td>Micro 301, 310L</td>
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<tr>
<td>MAT 156</td>
<td>Statistics</td>
<td>Micro 320</td>
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<tr>
<td>MAT 210 &amp; 216⁴</td>
<td>Calculus 1 &amp; 2</td>
<td>Micro 430 or</td>
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<td>PHYS 162 &amp; 172</td>
<td>College Physics 1 &amp; 2</td>
<td>Micro 456 or</td>
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<td>SPC 112</td>
<td>Public Speaking</td>
<td>Micro 477</td>
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<tr>
<th><strong>General Education</strong></th>
<th><strong>Requirements</strong></th>
<th><strong>Physical Sciences</strong></th>
<th><strong>Credit</strong></th>
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<tr>
<td><strong>Humanities – Pick 1</strong></td>
<td></td>
<td>BBMB 301 or</td>
<td>3</td>
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<tr>
<td>HIS 131</td>
<td>World Civilization 1</td>
<td>BBMB 336 or</td>
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<tr>
<td>HIS 132</td>
<td>World Civilization 2</td>
<td>BBMB 404 or 405</td>
<td>3 each</td>
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<td>HIS 151</td>
<td>US History to 1877</td>
<td>Biochemistry 1 &amp; 2</td>
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<td>HIS 152</td>
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<td>LIT 101</td>
<td>Introduction to Literature</td>
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<td>PHI 101</td>
<td>Introduction to Philosophy</td>
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<td>REL 105</td>
<td>Introduction to Religion</td>
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<td>ETHICS</td>
<td>Introduction to Ethics</td>
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<tr>
<th><strong>Social Science – Pick 1</strong></th>
<th><strong>Introduction to Agriculture Markets</strong></th>
<th><strong>Biological Sciences</strong></th>
<th><strong>Credit</strong></th>
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<tbody>
<tr>
<td>AGB 235</td>
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<td>Bio 313, 313L</td>
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<tr>
<td>CRJ 100</td>
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<td>Bio 314 or 328</td>
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<tr>
<td>CRJ 201</td>
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<td>Cell Biology</td>
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<td>ECN 120</td>
<td>Principles of Macroeconomics</td>
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<tr>
<td>ECN 130</td>
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<td>Engl 309</td>
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<td>POL 111</td>
<td>American National Government</td>
<td>Engl 312</td>
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<td>PSY 251</td>
<td>Social Psychology</td>
<td>Engl 314</td>
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<td>PSY 261</td>
<td>Human Sexuality</td>
<td>Business Communications</td>
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<tr>
<td>SOC 110</td>
<td>Introduction to Sociology</td>
<td>Proposal and Report Writing</td>
<td>3</td>
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<tr>
<td>SOC 115</td>
<td>Social Problems</td>
<td>Biological Communications</td>
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<td>SOC 120</td>
<td>Marriage and Family</td>
<td>Technical Communications</td>
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<tr>
<td>SOC 208</td>
<td>Introduction to Cultural Anthropology</td>
<td>To reach 128 total credits</td>
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<tr>
<th><strong>Recommended Preparation</strong></th>
<th><strong>Microbiology Seminar</strong></th>
<th><strong>Personal Development</strong></th>
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<tr>
<td>Bio 183 &amp; 184</td>
<td>Micro 440</td>
<td>Int’l Perspective</td>
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<td></td>
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<td>US Diversity</td>
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¹ Students intending to double major in Micro/Biochemistry or Micro/Genetics should take Mat 210 and Mat 216 and CHM 171 Lab at Northeast Iowa CC.  
² Credit for Bio 184 at Northeast Iowa counts as 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](http://www.admissions.iastate.edu/equiv/index.php?state=iowa)).