# BACHELOR OF SCIENCE DEGREE IN MOLECULAR AND CELLULAR BIOLOGY

**NAME _____________________________ SID # _____________________________**

**CATALOG YEAR 2013-2014**

**EXPECTED GRADUATION DATE _____________________________**

<table>
<thead>
<tr>
<th>GENERAL EDUCATION REQUIREMENTS</th>
<th>MCB MAJOR (32 Units Minimum)</th>
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<tbody>
<tr>
<td><strong>English Composition</strong></td>
<td><strong>Core Requirements (20 units)</strong></td>
</tr>
<tr>
<td>ENGL 101, 103H, or 107</td>
<td>MCB 181R Introductory Biology I (F, S, SS) 3 OR MCB 181L Introductory Biology I Lab (fall only) 1</td>
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<tr>
<td>ENGL 102, 104H, or 108</td>
<td>ECOL 182R Introductory Biology II (F, S) 3</td>
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<tr>
<td>Note: The English Composition requirement can also be fulfilled by completing ENGL 109H (3 units).</td>
<td>ECOL 182L Introductory Biology II Lab (spring only) 1</td>
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<tr>
<td><strong>Second Language</strong></td>
<td>MCB 304 Molecular Genetics (spring only) 5</td>
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<tr>
<td>2nd semester proficiency by credit or exam required.</td>
<td>MCB 305 Cell &amp; Developmental Biology (fall only) 4</td>
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<tr>
<td><strong>Mathematics</strong></td>
<td>BIOC 385 Metabolic Biochemistry (F, S)** 3</td>
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<tr>
<td>Requirement satisfied by MCB foundation courses.</td>
<td><strong>MCB Upper Division Elective Courses (12 units minimum):</strong></td>
</tr>
<tr>
<td><strong>Traditions and Cultures / Humanities (3 courses)</strong></td>
<td>Beyond the requirements above, students must take a minimum of 12 additional MCB upper division units, meeting the Core Elective, Lab, and Writing-Emphasis requirements. See the MCB Upper Division Electives Guide on back for a list of MCB upper division electives and the requirements they meet.</td>
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<tr>
<td>____160 A, B, C, or D</td>
<td><strong>Course</strong></td>
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<tr>
<td>____160 A, B, C, or D (choose different letter)</td>
<td><strong>Core Elective Requirement:</strong></td>
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<tr>
<td>Tier Two Humanities course</td>
<td><strong>Lab Course Requirement:</strong></td>
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<tr>
<td>(3 units)</td>
<td><strong>Writing-Emphasis Requirement</strong></td>
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<tr>
<td><strong>Individuals and Societies (3 courses)</strong></td>
<td><strong>UNIVERSITY REQUIREMENTS:</strong></td>
</tr>
<tr>
<td>____150 A, B, or C</td>
<td><strong>120 total units</strong></td>
</tr>
<tr>
<td>____150 A, B, or C (choose different letter)</td>
<td>2,000+ cum GPA</td>
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<tr>
<td>Tier Two Individuals &amp; Societies course</td>
<td></td>
</tr>
<tr>
<td>(3 units)</td>
<td></td>
</tr>
<tr>
<td><strong>Tier Two Arts (3 units total)</strong></td>
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<tr>
<td>(3 units)</td>
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<tr>
<td><strong>Natural Sciences (NATS)</strong></td>
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<tr>
<td>Requirement satisfied by MCB major course work.</td>
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<tr>
<td><strong>GRCENW (Gender/Race/Class/Ethnicity/Non Western)</strong></td>
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<td>One undergraduate course must be taken from the GRCENW list; certain Tier One and Tier Two courses can also be used to meet this requirement ...</td>
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<thead>
<tr>
<th>MCB FOUNDATION COURSES</th>
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<tbody>
<tr>
<td><strong>Chemistry (General &amp; Organic Chemistry, with labs)</strong></td>
<td><strong>MCB Upper Division Elective Courses (12 units minimum):</strong></td>
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<tr>
<td>CHEM 151 (F, S, SS) or CHEM 105a/ 106a 4</td>
<td>Beyond the requirements above, students must take a minimum of 12 additional MCB upper division units, meeting the Core Elective, Lab, and Writing-Emphasis requirements. See the MCB Upper Division Electives Guide on back for a list of MCB upper division electives and the requirements they meet.</td>
</tr>
<tr>
<td>CHEM 152 (F, S, SS) or CHEM 105b/ 106b 4</td>
<td><strong>Course</strong></td>
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<tr>
<td>CHEM 241a &amp; 243a (F, S, SS)*</td>
<td><strong>Core Elective Requirement:</strong></td>
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<tr>
<td>CHEM 241b &amp; 243b (F, S, SS)*</td>
<td><strong>Lab Course Requirement:</strong></td>
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<tr>
<td>*Calculated into major GPA</td>
<td><strong>Writing-Emphasis Requirement</strong></td>
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<tr>
<td><strong>Mathematics (Calculus I, &amp; Calculus II or Biostatistics)</strong></td>
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<td>MATH 122A/ B OR 125 (F, S, SS) 3-5</td>
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<tr>
<td>MATH 129 OR MATH 263 (F, S, SS) 3</td>
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<tr>
<td><strong>Physics (Introductory Physics)</strong></td>
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<td>PHYS 102/ 181 &amp; 103/ 182 (F, S, SS)</td>
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<td>OR PHYS 140, 143, &amp; 240</td>
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<tr>
<td>OR PHYS 141 &amp; 241 (F, S)</td>
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**UNIVERSITY REQUIREMENTS:**

- 120 total units
- 42 upper div. units
- 2,000+ cum GPA
- 2,000+ major GPA

MCWA complete Final 18 of 30 units complete
30+ total units at UA 18+ MCB units at UA <60 correspondence/ UA exam units

AUGUST 22, 2013