<table>
<thead>
<tr>
<th>Prep Subject Matter: 50-55 Units</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Quarter(s) offered</th>
<th>Units</th>
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<tr>
<td>Biological Sciences:</td>
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<tr>
<td>BIS 2A</td>
<td>Introduction to Biology</td>
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<td>F, W, S, Su</td>
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<td>BIS 2B</td>
<td>Introduction to Biology</td>
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<td>F, W, S, Su</td>
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<td>BIS 2C</td>
<td>Introduction to Biology</td>
<td>BIS 2B with C- or better</td>
<td>F, W, S, Su</td>
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<td>Chemistry:</td>
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<td>CHE 2A</td>
<td>General Chemistry</td>
<td>Chemistry Placement Test</td>
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<td>CHE 2B</td>
<td>General Chemistry</td>
<td>CHE 2A/2AH with C- or better</td>
<td>W, S, Su</td>
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<td>Organic Chemistry:</td>
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<tr>
<td>CHE 8A</td>
<td>Organic Chemistry: Brief Course</td>
<td>CHE 2B/2BH with C- or better</td>
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<tr>
<td>CHE 8B</td>
<td>Organic Chemistry: Brief Course</td>
<td>CHE 8A/118A/128A</td>
<td>F, W, Su</td>
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<td>or CHE 118A</td>
<td>Organic Chemistry for Health and Life Sciences</td>
<td>CHE 2C/2CH with C- or better</td>
<td>F, W, Su</td>
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<td>CHE 118B</td>
<td>Organic Chemistry for Health and Life Sciences</td>
<td>CHE 118A/128A</td>
<td>W, S, Su</td>
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<td>Physics:</td>
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<tr>
<td>PHY 1A or 7A</td>
<td>General Physics</td>
<td>MAT 16B/17B/21B can be concurrent</td>
<td>F, W, S, Su</td>
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<tr>
<td>PHY 1B or 7B</td>
<td>General Physics</td>
<td>PHY 1A or 9A</td>
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<td>Mathematics:</td>
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<tr>
<td>MAT 16A or 17A or 21A</td>
<td>Calculus (for Biology and Medicine)</td>
<td>Math Placement Test</td>
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<tr>
<td>MAT 16B or 17B or 21B</td>
<td>Calculus (for Biology and Medicine)</td>
<td>MAT 16A/17A/21A with C- or better</td>
<td>F, W, S, Su</td>
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<tr>
<td>MAT 16C or 17C or 21C</td>
<td>Calculus (for Biology and Medicine)</td>
<td>MAT 16B/17B with C- or better</td>
<td>F, W, S, Su</td>
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<td>Statistics (choose one):</td>
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<tr>
<td>STA 13</td>
<td>Elementary Statistics</td>
<td>2 years of high school algebra or Mathematics D</td>
<td>F, W, S, Su</td>
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<tr>
<td>STA 32</td>
<td>Gateway to Statistical Data Science</td>
<td>MAT 16B/17B/21B</td>
<td>F, W, S</td>
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<tr>
<td>STA 100</td>
<td>Applied Statistics for Biological Sciences</td>
<td>MAT 16B/17B/21B with a C- or better</td>
<td>F, W, S, Su</td>
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<tr>
<td>PLS 120</td>
<td>Applied Statistics in Agricultural Sciences</td>
<td>Upper division standing</td>
<td>F, S</td>
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<td>Depth Subject Matter: 34-43 Units</td>
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<td>Quarter(s) offered</td>
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<tr>
<td>MIC 102</td>
<td>Introduction to Microbiology</td>
<td>BIS 2A, CHE2B</td>
<td>F, W, S, Su</td>
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<tr>
<td>MIC 162</td>
<td>General Virology</td>
<td>BIS 101, BIS 102 or 105 recommended</td>
<td>W</td>
<td>4</td>
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<tr>
<td>PLB 148</td>
<td>Introductory Mycology</td>
<td>BIS 2A-C</td>
<td>F</td>
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<tr>
<td>PLP 120</td>
<td>Introduction to Plant Pathology</td>
<td>BIS 2C, MIC 102 recommended</td>
<td>F, S</td>
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<td>Upper Division Biology:</td>
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<tr>
<td>BIS 101</td>
<td>Genes and Gene Expression</td>
<td>BIS 2A-B, CHE 8A/118A, STA 13/100</td>
<td>F, W, S, Su</td>
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<tr>
<td>BIS 102 or ABI 102</td>
<td>Structure and Function of Biomolecules</td>
<td>BIS 2A, CHE 8B/118B</td>
<td>F, W, S, Su</td>
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<tr>
<td>BIS 103 or ABI 103</td>
<td>Bioenergetics and Metabolism</td>
<td>BIS 102</td>
<td>F, W, S, Su</td>
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<tr>
<td>EVE 100</td>
<td>Introduction to Evolution</td>
<td>BIS 2A-C, MAT 16/17A-B, STA 13/100 recommended</td>
<td>F, W, S, Su</td>
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<td>Choose one of the following:</td>
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<tr>
<td>ENT 105</td>
<td>Insect Ecology</td>
<td>BIS 2B (can be concurrent)</td>
<td>F</td>
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<tr>
<td>ESP 100</td>
<td>General Ecology</td>
<td>BIS 2A-C, MAT 16/17A-B, STA 13 recommended</td>
<td>F, S, Su</td>
<td>4</td>
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<tr>
<td>EVE 101</td>
<td>Introduction to Ecology</td>
<td>BIS 2A-C, MAT 16/17A-B</td>
<td>F, W, S, Su</td>
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<td>Core Entomology Courses:</td>
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<tr>
<td>ENT 100</td>
<td>General Entomology</td>
<td>BIS 2B</td>
<td>F, S</td>
<td>4</td>
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<tr>
<td>ENT 100L</td>
<td>General Entomology Laboratory</td>
<td>ENT 100 (can be concurrent)</td>
<td>F</td>
<td>2</td>
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<tr>
<td>ENT 102</td>
<td>Insect Physiology</td>
<td>ENT 100 or course in physiology or vertebrate zoology</td>
<td>W</td>
<td>4</td>
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<tr>
<td>Choose at least 3 units:</td>
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<tr>
<td>ENT 103</td>
<td>Insects Systematics</td>
<td>Intro course in zoology or entomology</td>
<td>S</td>
<td>3</td>
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<tr>
<td>ENT 104</td>
<td>Behavioral Ecology of Insects</td>
<td>Introductory biology or zoology</td>
<td>S</td>
<td>3</td>
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<tr>
<td>ENT 107</td>
<td>California Insect Diversity</td>
<td>Introductory course in entomology</td>
<td>S alt yr odd</td>
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<tr>
<td>ENT 109</td>
<td>Field Taxonomy and Ecology</td>
<td>Introductory course in entomology</td>
<td>S alt yr even</td>
<td>7</td>
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<td>ENT 116</td>
<td>Freshwater Macroinvertebrates</td>
<td>BIS 2B</td>
<td>S</td>
<td>3</td>
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<tr>
<td>NEM 110</td>
<td>Introduction to Nematology</td>
<td>BIS 2B</td>
<td>W</td>
<td>2</td>
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</table>

**Upper Division Units (Minimum 14 units):** Entomology (ENT) and Nematology (NEM)

1. ___________________________________________ 3. ___________________________________________
2. ___________________________________________ 4. ___________________________________________

**Restricted Electives (Minimum 9 upper division units):** Upper division electives related to student’s interest with approval of advisor.

**NOTE:** No more than a total of 6 units from ENT 192, 197T, and 199 may count toward fulfilling depth subject matter or restricted elective units.

1. ___________________________________________ 3. ___________________________________________
2. ___________________________________________ 4. ___________________________________________

**Additional Notes:**

____________________________________________________________________________________________________________________________________________
____________________________________________________________________________________________________________________________________________

***Course offerings are subject to change. Check with your advisor for the most updated listings. Updated 1/16/19***