### Bachelor of Science – Biology

**College of Arts and Sciences, Case Western Reserve University**

**EFFECTIVE FALL 2014**

<table>
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<tr>
<th>Course</th>
<th>hrs</th>
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<tr>
<td>Arts &amp; Humanities (6-8 credits)</td>
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<td>Natural Sciences and Math (6-8 credits)</td>
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<td>Social Sciences (6 credits)</td>
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<td>Quantitative Reasoning (3-4 credits)</td>
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<td>Global and Cultural Diversity (3-4 credits)</td>
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<td>Physical Education (2 full semesters, 4 half-semester courses)</td>
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**SAGES requirements**

- First Year Seminar
- University Seminar (1)
- University Seminar (2)
- Departmental Seminar
- Capstone
- Writing Portfolio

**Biology Core Courses**

- BIOL 214
- BIOL 214L
- BIOL 215
- BIOL 215L
- BIOL 216
- BIOL 216L

**Mathematics**

- MATH 125 (or 121)
- MATH 126 (or 122)

Total Biology Credits: 39 hrs

*At least 11 hours of electives/lab courses must be at the 300 level. Must complete at least 12 hours of BIOL electives and labs

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**Chemistry**

- CHEM 105
- CHEM 106
- CHEM 113
- CHEM 223 (or 323)
- CHEM 224 (or 324)
- CHEM 233
- CHEM 301

**Physics**

- PHYS 115
- PHYS 116

**Engineering**

- ENGR 131

**Advanced Math or Stats Course (3 credits)**

Select from Math 201 or 304; or BIOL 431; or STAT 207, 312, 313

*Biology Breadth Requirement:* One course from two of the following areas: Cell and Molecular (c/m) Organismal (o) or Population and Ecology (p/e) *(6 credits)*

**Quantitative Biology (one course)**

- BIOL 300, 304, 315, 321, 352, OR 373

**Genetics**

- BIOL 326

*Laboratory Requirements:*

- One additional lab course required

*Biology Elective (3-6 credits)*

200 level or higher (excluding 240, 250, 251)

**Independent Research**

- BIOL 388S (capstone) 3
- BIOL 390 3

Revised 8-8-13