BIOLOGY MAJOR CHECKLIST

NAME: ___________________________________________ CLASS: _______
ADVISOR: _________________________________________

REQUIREMENTS:
To complete a major, students should take the following biology courses:

1. **Introductory courses**: BIOL-181 and BIOL-191. See below for Placing Out instructions.
2. **Four upper-level** courses in Biology. The upper-level courses must include three laboratory courses (or four for students omitting both Intro labs) and at least one course from each of the three areas (“Bins”) listed below. Only four courses are required for students electing to do Honors. These four courses do not include courses for non-majors or Special Topics courses.
3. **Fifth course**: A Seminar course OR the departmental Honors Program.

**Off Campus**: to count toward the major, courses taken off campus must be approved by the Department.

INTRODUCTORY COURSES:
**Placing Out**: Students wishing to place out of either Biology 181 or Biology 191 must first seek Departmental approval (see Karen Racz for form) and provide written documents verifying an AP score of 5. Students placing out of BIOL-181 must substitute a course from Bin III (Evolutionary Explanations); students placing out of BIOL-191 must substitute a course from Bin I (Molecular and Cellular Mechanisms). Students who place out must take a minimum of four semesters of laboratory work (Placing out of 1: 1 Intro + 3 upper-level labs; Placing out of both: 4 upper-level labs).

<table>
<thead>
<tr>
<th>Course</th>
<th>AC</th>
<th>Placed out</th>
<th>Off campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL-181</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>BIOL-191</td>
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</table>

If placing out of BIOL-181: Additional Course (Bin III)___________________________
If placing out of BIOL-191: Additional Course (Bin I)____________________________

UPPER-LEVEL COURSES: Please circle/fill in below.

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>AC Courses</th>
<th>Off Campus</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. Molecular &amp; Cellular Mechanisms</td>
<td>251 291 301 310 330 331 400</td>
<td>Off campus: ________</td>
</tr>
<tr>
<td>II. Integrative Processes</td>
<td>201 221 241 260 264 271 351 370 380 381</td>
<td>Off campus: ________</td>
</tr>
<tr>
<td>III. Evolutionary Explanations</td>
<td>211 230 281 320 321</td>
<td>Off campus: ________</td>
</tr>
<tr>
<td>IV. Fourth Upper-Level Course</td>
<td></td>
<td>Off campus: ________</td>
</tr>
<tr>
<td>V. Seminar or Honors</td>
<td>404 410 420 414 424 430 434 440 444 450 454 460 470</td>
<td>Honors?____</td>
</tr>
</tbody>
</table>

Which are your 3 lab courses? ________________________________

Comprehensive Exam: Passed: ________________ Date: ________________

Last Updated: April 1, 2014 TLR
BIOLOGY MAJOR CHECKLIST (continued)

Physical Sciences: Students are required to take two courses in chemistry—Chemistry 151/155 and Chemistry 161 or above—and two courses in mathematics, statistics, and/or physics at the level of Math 111, Stats 111, and Phys 116 or above. Students with Advanced Placement scores may satisfy the requirement by taking upper-level courses.

1. Chemistry 151/155 or equivalent: ________________________
2. Chemistry 161 or equivalent: ________________________
3. Mathematics 111, Statistics 111, or Physics 116/123 or equivalent: ________________________
4. Mathematics 111, Statistics 111, or Physics 116/123 or equivalent: ________________________

Please note:
- Seminar courses count as Biology major courses but not for any particular Bin area.
- Non-majors courses—106, 108, 110, 114 and 131—and Special Topics courses do not count toward the major.
- Honors students must still satisfy distribution and lab requirements.
- Majors are expected to take at least 3 of the 5 courses beyond BIOL-181/191 at Amherst College unless approved in advance by the Department.
- A Biology course cannot be counted towards the Biology major if it is also being used to meet the requirements of another major, unless the course in question is required by both majors.
- In order to count toward the major, all courses taken off campus must be approved by petitioning the Department and cannot be approved by your Advisor alone. It is better to do this in advance. For off-campus courses note the institution, number and course name and when approval was granted. In petitioning, indicate which AC course you want to substitute and your reasons. Include a copy of the catalog description of the course you are substituting and any additional pertinent information. If your Honors project is done off campus, you are expected to follow the same guidelines as students working on campus, and assignment of levels of Honors and grades will be made by the Department, taking into consideration recommendations by your Advisor.

The Biology Major, 6 different ways:

<table>
<thead>
<tr>
<th>Distribution Requirement:</th>
<th>2 Semesters of Intro</th>
<th>1 Semester of Intro</th>
<th>-0- Semesters of Intro</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Lab Requirement:</td>
<td>2 Intro + 3 Upper = 5 labs</td>
<td>1 Intro + 3 upper = 4 labs</td>
<td>-0- Intro + 4 upper = 4 labs</td>
</tr>
<tr>
<td>Upper-Level Course Requirements:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a) No Honors</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>b) With Honors</td>
<td>4 + 3 thesis</td>
<td>5 + 3 thesis</td>
<td>6 + 3 thesis</td>
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