Biology Major Requirements (Bachelor of Science) – Catalog Year 2013

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<td>19</td>
<td><strong>Required Chemistry Courses</strong></td>
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|     | CHEM 1103/1101L University Chemistry I/Lab
|     | CHEM 1123/1121L University Chemistry II/Lab
|     | CHEM 3603/3601L Organic Chemistry I/Lab
|     | CHEM 3613/3611L Organic Chemistry II/Lab
|     | CHEM 3813 Biochemistry |
| 3   | **Required Philosophy** |
|     | Choose one:
|     | PHIL 2103 Intro to Ethics
|     | PHIL 2203 Logic
|     | PHIL 3113 Environmental Ethics
|     | PHIL 4213 Philosophy of Science |
| 27  | **Biology Electives** |
|     | No more than 8 hours at the 1000 Level
|     | BIOL 1543/1541L Principles of Biology/ Lab
|     | BIOL 1603/1601L General Zoology/Lab
|     | BIOL 1613/1611L Plant Biology/Lab
|     | At least 2 elective courses numbered 2000+ which are lab courses
|     | This includes lab courses taken in addition to the 1 hr required in the Biology Core. Courses whose catalog description explicitly excludes them from counting in the major will not be counted here:
|     | BIOL ______ L
|     | BIOL ______ L (Lab from one of the above)
|     | BIOL 3023 Evolutionary Biology |

**Electives (to meet the 12 hour minimum Graduation Requirement)**

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<td>[No graduation credit is awarded for a world language 1003 course to students continuing with the language in high school. (See 2013-2014 Catalog of Studies)]</td>
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**Requirements for Departmental Honors in Biology:** The biological sciences honors program is designed to provide students an opportunity to investigate questions in biology through an expanded reading program and research experience. Biological science majors may apply to enter the program between the second semester of the sophomore year and the end of the junior year. Application is made through both Honors Studies (MAIN 517) and the Department of Biological Sciences (SCEN 601). Applicants must have a 3.5 grade-point average. Students should consult with their adviser to identify and contact a potential faculty research mentor. The student’s research activities will then be directed by the departmental faculty member who agrees to sponsor the student.

Students may enroll for up to four hours of credit in BIOL 399VH during the junior year and up to eight hours of credit in BIOL 499V during the senior year. A maximum of six of these credits may be applied toward a major. Participants must complete and defend an honors thesis and take 12 hours in Honors Studies, which may include six hours of thesis. The honors thesis is based on an original research project and presented orally before a committee composed of two faculty from the biological sciences, a person from outside the biological sciences, and a representative from the Honors Council. This committee makes a recommendation concerning the award of the honors distinction to the Honors Council. Students who successfully complete the departmental honors program usually graduate as “Departmental Scholar Cum Laude.” Higher degree distinctions are recommended only in exceptional cases and are based upon the candidate’s entire involvement in the honors program. Completion of an honors thesis fulfills the writing requirement in biological sciences, which precludes credit for BIOL 498V (Senior Thesis) for the same body of work.

**Writing Requirement:** The college writing requirement for majors in biology may be met by one of the following:
- Completion of an honors thesis,
- Completion of a senior thesis (BIOL 498V) supervised by a faculty member in biological sciences,
- Completion of a required term paper with a grade of B or above in a BIOL course numbered 3000 or above on a topic approved by the instructor, or
- Completion of a paper, supervised by a Biological Sciences faculty member, in Special Problems (BIOL 480V)

**Note:** A student exercising option 3 or 4 may not use the same paper written for that option for credit in BIOL 498V.