Biological Chemistry

Cell and Molecular Biology
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Chemistry
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Program Administrators:
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David A. Mullin, Cell and Molecular Biology (Co-Director)
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Major
A major in biological chemistry must include the cell and molecular biology courses in list I below plus three courses from biology courses in lists II and III below. In addition, the major must include all the chemistry, physics, and mathematics courses listed in lists IV, V, and VI below. An appropriate six-credit special project such as Cell and Molecular Biology 495, 496 or Chemistry 401, 402, integrating the student’s biological and chemical studies, is also required. Cell and Molecular Biology 101 and 211, and Ecology and Evolutionary Biology 101 and 111, either for credit or audit, are recommended in the freshman or sophomore year. Because of the interdisciplinary nature of the biological chemistry major, students in this program may not minor in chemistry, cell and molecular biology, or ecology and evolutionary biology.

I. Cell and Molecular Biology Required Courses
   CELL 205 Genetics
   CELL 301 Cell Biology
   CELL 311 Molecular Biology
   CELL 312 Molecular Biology Laboratory

II. Cell and Molecular Biology Elective Courses
   CELL 302 Cell Biology Laboratory
   CELL 411 Cells and Tissues
   CELL 413 Embryology
   CELL 416/417 Developmental Biology (or H416/H417 Honors Developmental Biology)
   CELL 422 Microbiology
   CELL 423 Microbiology Laboratory

III. Ecology and Evolutionary Biology Elective Courses
   EEOB 333 Vertebrate Physiology

IV. Chemistry Required Courses
   CHEM 107, 117 General Chemistry I (or 109, 111 Honors General Chemistry I)
   CHEM 108, 118 General Chemistry II (or 110, 112 Honors General Chemistry II)
   CHEM 241, 243 Organic Chemistry I (or 245, 247 Honors Organic Chemistry I)
   CHEM 242, 244 Organic Chemistry II or 246, 248 Honors Organic Chemistry II
   CHEM 312 Physical Chemistry II or 612 Physical Biochemistry
V. Physics Required Courses
   PHYS 131 General Physics I
   PHYS 132 General Physics II

VI. Mathematics Required Courses
   MATH 121 Calculus I
   MATH 122 Calculus II
   Note: 131 Consolidated Calculus may be taken in lieu of 121 and 122.
   MATH 221 Calculus III
**Biological Sciences**

See:

- Biological Chemistry
- Cell and Molecular Biology
- Ecology and Evolutionary Biology