

Biological Chemistry

Cell and Molecular Biology

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Chemistry

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Program Administrators

Larry D. Byers, Chemistry (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

CHEM 314 Physical Chemistry Laboratory II

CHEM 383 Introduction to Biochemistry

CHEM 384 Intermediate Biochemistry

CHEM 385 Introduction to Biochemistry Laboratory

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: MATH 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