

# BIOLOGICAL CHEMISTRY

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The Department of Biological Chemistry has two major instructional functions. It provides required and elective instruction in biochemistry for medical students, and also offers organized programs of graduate study in biochemistry and cell biology toward the degree of Doctor of Philosophy. Two graduate programs are available: the departmental graduate program in Biological Chemistry and the joint graduate program in Biochemistry, Cellular and Molecular Biology (BCMB). The BCMB graduate program is a joint effort of the Departments of Biological Chemistry, Molecular Biology and Genetics, Biophysics and Biophysical Chemistry, Pharmacology and Molecular Sciences, Cell Biology, Neuroscience, and Physiology (see Graduate Program Section: Biochemistry, Cellular and Molecular Biology, and Biological Chemistry).

The staff and the faculties of all seven departments provide opportunities to medical students, graduate students, and postdoctoral fellows for carrying out research projects in many different areas of biochemistry and cell biology.

## Graduate Program

Students are accepted for graduate work leading to the degree of Doctor of Philosophy (see Graduate Programs) (<https://e-catalogue.jhu.edu/medicine/graduate-programs/>).

Code	Title	Credits
<i>Biological Chemistry</i>		
ME.340.805	Research in Biochemistry and Molecular Biology	1 - 18
ME.340.702	Rigor, Reproducibility & Experimental Design in Biological Chemistry	2
ME.100.716	Analysis of Macromolecules	2
ME.260.709	Molecular Biology and Genomics	1.5
ME.800.811	Introduction to Responsible Conduct of Research	1
ME.330.709	Organic Mechanisms in Biology	2
ME.110.728	Cell Structure and Dynamics	1.5
ME.360.728	Pathways and Regulation	2
ME.110.733	Principles of Genetics	2

## Other Courses and Elective Opportunities

The courses described above are required for Ph.D. candidates but are available to medical students as elective opportunities.

Curricular Consultants: Elective courses for medical students must be approved by the preceptor; any member of the department may act as preceptor.