What will your curriculum look like?
Students have the option of completing a Bachelor of Arts, a Bachelor of Science, or a four-year combined B.S./M.S. program.

The B.A. requires the following:
• One semester of Introductory Biochemistry
• One year of General Chemistry plus labs
• One year of Organic Chemistry plus labs
• One year of Biology plus labs
• One year of Physics taught with calculus plus labs (a year of calculus is required prior to taking this requirement)
• One year of Physical Biochemistry
• One elective

The B.S. requires the following:
• All of the above plus one year of Advanced Biochemistry

The B.S./M.S. program is designed for students entering Brandeis with advance standing (e.g., A.P. credit) in one or more core courses. In addition to the above requirements, B.S./M.S. students must complete one additional elective, three semesters of research, a summer research residency, and a research thesis.

Most students can complete the requirements for a B.S. in biochemistry by taking two science courses each semester. A typical schedule might consist of General Chemistry and Calculus in the freshman year; Biology and Organic Chemistry in the sophomore year; Physics, Introductory Biochemistry, and an elective in the junior year; Physical Biochemistry and Advanced Biochemistry in the senior year.

Electives consist of upper-level courses in the biochemistry, biology, chemistry, and neuroscience programs.

What else does the biochemistry program offer?
Research Opportunities
Undergraduates have many opportunities to engage in state-of-the-art research in biochemistry and biophysics at Brandeis. Students often find part-time employment in faculty research labs, occasionally publishing joint papers. Many students also engage in summer laboratory research. These research internships, during which undergraduates work side-by-side with graduate students and postdoctoral fellows to push the envelope of knowledge in a specific area of the life sciences, provide invaluable experience in the thrill of discovery, as well as the design and implementation of scientific experimentation. For more information, visit www.bio.brandeis.edu/undergrad.html.

Independent research courses are another popular mechanism for going beyond the curriculum and getting involved in laboratory research.

Completing a senior honors thesis in biochemistry provides an opportunity to spend an entire year working on a self-directed research topic under the guidance of a faculty member.

Seminars Open to Undergraduates
There are a number of weekly research seminars that undergraduates are welcome to attend. For example, the joint Biochemistry/Biology Colloquium brings internationally renowned researchers to campus each week to present their research and discuss its implications with faculty and students. In addition, there are a number of more informal journal clubs that focus on specific topics such as biochemistry, biophysics, molecular genetics, and neurobiology. For a current listing, visit www.bio.brandeis.edu/seminars.html.

What kind of career and education options will you have?
Students completing a B.A., B.S., or B.S./M.S. in biochemistry from Brandeis pursue a wide variety of career paths. Many go on to either graduate or medical school, while others immediately enter the workforce in the biotechnology sector. Over half of all biochemistry majors have another major, typically biology, chemistry, economics, mathematics, or physics. Double-majors often choose career paths that combine their majors, such as biophysics or biotechnology business ventures. Others pursue professional training in science policy or law.

How can you learn more?
Visit the department website at www.bio.brandeis.edu/biochem01/ug_biochem.html or contact the program chair at mmoore@brandeis.edu.