

## For students with an interest in chemistry and a good GPA

1. Maintain a GPA of 3.0 or better (overall and in your biochemistry, chemistry, or engineering chemistry major)
2. In your junior year, choose a research advisor from the faculty
3. Plan your program of study to include senior research (CHE 495-496) and two graduate (500-level) courses in your senior year.
4. Spend your fifth year in an intensive research program in a sophisticated research environment.
5. Write and defend a thesis.

Get two degrees in five years!

### Why a Combination B.S./M.S. Degree Program?

In today's job market, a research-based M.S. degree can provide an entry into a great job. In some areas of chemistry, there are job openings at the M.S. level even during economically difficult times.

Chemistry, as the central science, plays a critical role in many areas, such as developing new materials (ceramics, high-tech polymers), finding cures for disease (invention of new drugs), understanding biological processes (mode of drug action, fertilization), and detailing the theoretical basis of natural phenomena.

This five-year B.S./M.S. program, intended for those desiring entry into an industrial position, provides a streamlined opportunity to obtain both degrees.



STATE UNIVERSITY OF NEW YORK

A  
**B.S.**  
and an  
**M.S.**  
in  
**CHEMISTRY**  
in  
**Five Years!**

See inside for details

## Faculty Advisors

Elizabeth Boon  
Isaac Carrico  
Benjamin Chu  
Dale Drueckhammer  
Frank Fowler  
Nancy Goroff  
Clare Grey  
David Hanson  
Benjamin Hsiao  
Jiangyong Jia  
Francis Johnson  
Philip Johnson  
Peter Khalifah  
Stephen Koch  
Roy Lacey  
Joseph Lauher  
Erwin London  
Andreas Mayr  
Michelle Millar  
Iwao Ojima  
John Parise  
Kathlyn Parker  
Daniel Raleigh  
Nicole Sampson  
Carlos Simmerling  
Peter Tonge  
Jin Wang  
Stanislaus Wong

## During your junior year:

Choose a research advisor based on your area of interest and a broad range of active research areas.

Fill out a "Five-Year B.S./M.S. Program in Chemistry Application Form," available in the Chemistry Department Main Office.

This form spells out a program of coursework for completion of the B.S. degree and the M.S. degree, including Senior Research (CHE 495-496) and two 500-level graduate courses that will be taken during the senior year, and an intensive research experience for the fifth year of the program.

The completed form is signed by the Applicant, Proposed Advisor, and then submitted to the Chemistry Department Office for review by the the Undergraduate Program Director and the Graduate Program Director.

The coursework identified on the application form must be completed by the end of the senior year with a GPA of 3.0 or above, in addition to maintaining a GPA of 3.0 overall, for continuation into the fifth year and the M.S. degree phase of the program. The internal Chemistry Department application is followed by an official application to the Graduate School in the second semester of the senior year.

## Research Areas:

**Biological**  
enzymes  
protein design / modification

**Inorganic**  
enzyme active sites  
new structures

**Materials**  
new polymers  
designed / self-assembling

**Medicinal**  
anticancer agents  
enzyme inhibitors

**Organic**  
new methods  
total synthesis

**Organometallic**  
catalysis  
new synthetic methods

**Physical**  
instrument design  
spectroscopic methods