

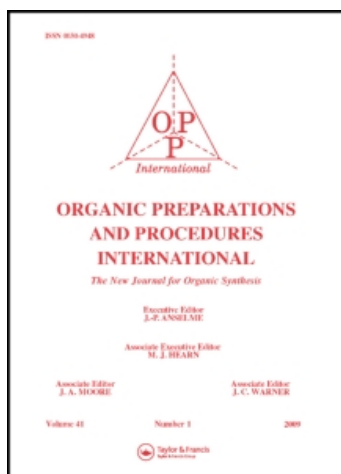
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# Master of Science in Chemistry

## The Program

Limited in size—about 20 students in a department of 12 faculty members. Offers courses which cut across traditional fields, presenting a broad overview in the areas of synthesis, structure, and dynamics. Allows students to choose a research project in modern chemistry or an interdisciplinary project in a chemistry-related area.

## Facilities

The Department of Chemistry is housed in the spacious, air-conditioned Science Building of the Harbor Campus. Facilities include laboratory space for research of 12 faculty, a science library, glassblowing, machine and electronic shops.

Research facilities presently available include:

- numerous uv, vis and ir spectrophotometers
- an ORD/CD and laser Raman spectrophotometer
- nuclear magnetic resonance and electron spin resonance equipment
- a fully-equipped laboratory for X-ray crystallographic studies
- instruments for flash photolysis
- a tunable dye laser
- electroanalytical and radiochemistry equipment
- analytical and preparative gaschromatographs
- extensive computing facilities

## Tuition

Massachusetts residents:

\$47.50/credit hour, up to \$475 per semester.

Non-residents:

\$137.50/credit hour, up to \$1,375 per semester.

A small general fee covers student services.

## Financial Aid

A number of assistantships are available. These provide a stipend and remission of tuition.

Other forms of financial aid are also available to eligible students. For this aid contact the Financial Aid Office.

## Admissions

Admissions information and application forms may be obtained by writing to:

Admissions Office  
University of  
Massachusetts/Boston  
Harbor Campus  
Boston, Massachusetts 02125

All applications for the fall term must be completed by April 15 and for the spring term by November 15. In exceptional circumstances late applications will be considered. The University admits students regardless of sex, racial, cultural, religious, ethnic group or disability status.

The Chemistry Department will recommend admission to the program for those applicants who present evidence of their ability to do graduate work with distinction. Such evidence normally will include: 1) a distinguished undergraduate transcript with at least an average of B or 3.0 in undergraduate Chemistry courses, 2) at least three encouraging and informed letters of recommendation. The submission of Graduate Record Examination Scores (aptitude and advanced tests) is highly recommended; it is required of applicants with degrees from foreign universities.

## Degree Requirements

Requirements for the Master of Science Degree in Chemistry are at least 30 credit hours; 1-10 of which are for thesis.

## Faculty

Joseph S. Alper, Ph.D. Yale University  
*Theoretical Chemistry*

Jean-Pierre Anselme, Ph.D. Polytechnic Institute of Brooklyn  
*Synthesis and Mechanisms of Organic Nitrogen Compounds*

Ernest I. Becker, Ph.D. Western Reserve University  
*Organometallic Compounds—Phybiologically Important Compounds*

Robert L. Carter, Ph.D. University of Kansas  
*Structural Studies of Inorganic Solids by Infrared and Raman Spectroscopy*

Robert I. Gelb, Ph.D. University of Wisconsin  
*Chemistry of Electrode Processes and of Solution Equilibria*

Daniel A. Laufer, Ph.D. Brandeis University  
*Synthesis and Properties of Biomolecules, Polymeric Reagents*

Thomas N. Margulis, Ph.D. University of California at Berkeley  
*X-Ray Crystallography of Drugs and Natural Products*

Lowell M. Schwartz, Ph.D. Massachusetts Institute of Technology  
*Physical Properties of Oxocarbons, Statistical Treatment of Data*

Hans Van Willigen, Ph.D. University of Amsterdam  
*Application of Spin Resonance in the Study of Structure and Dynamics*

Chi-Hua Wang, Ph.D. St. Louis University  
*Chemistry of Free Radicals in Solution*

Walter E. Weibrecht, Ph.D. Cornell University  
*Equilibrium Studies of Transamination of Silylamines*

Leverett J. Zompa, Ph.D. Boston College  
*Chemistry of Transition Metal Complexes*

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