

# Master of Science in Chemistry

## INTRODUCTION

The Master of Science (MS) degree in chemistry is designed for both full-time and part-time students. It provides advanced training for those who wish to further their careers in industry, laboratory medicine, or teaching, as well as students who feel the need for more study before pursuing a PhD or MD.

## PROGRAM DESCRIPTION

The MS in chemistry program offers both thesis and non-thesis options, except in the area of clinical chemistry which is a course-work-only program with a practical training in the laboratories of local medical institutions. Graduate course offerings are scheduled in the late afternoon and evening so that employed students can earn the degree on a part-time basis, taking one or two courses per semester. Graduate training at the MS level is offered in areas of *analytical, clinical, inorganic, medicinal, organic, physical, and environmental chemistry*. The incredible growth in the related industries, state and federal funding underscores the critical relevance of our MS program in meeting the needs of future workforce.

## RESEARCH

The MS program in chemistry has outstanding faculty scientists with whom students conduct their coursework and thesis research. This includes over 50 faculty members from CSU, CCF, and other medical centers. These faculty scientists represent a broad range of research interests in disease mechanism and diagnosis, clinical chemistry, bioanalytical chemistry, biomedicine, molecular

biology, medicinal and pharmaceutical science, and computational chemistry. Numbered among these faculty are members of the National Academies of Sciences, Fulbright Scholars, and winners of the Howard Hughes Science and Research Initiative Outstanding Mentor Award. Over 18 patents are held among this group of scholars, they have published over 3,000 peer-reviewed articles, and there are over 110 active research grants representing over \$19,000,000 in annual awards. In addition, many of them have worked closely with graduate students, and co-published articles with students from the program.



## DEGREE REQUIREMENTS

The MS degree in chemistry requires a minimum of 32 credit hours of courses which include 2 credit hours of chemistry seminar and 30 credit hours of lecture, or lecture and research, or lecture and clinical internship, depending on a chosen program option. The primary objective of a Thesis MS degree is the completion of a research project under the direction of faculty advisor(s). Once the project is completed, the student must write a thesis describing the project and publicly defend the

research and the written thesis. A MS Thesis Committee should consist of at least 3 faculty members with graduate faculty status from the program.

### For admission information, contact:

Cleveland State University  
Graduate Admissions Office  
2121 Euclid Ave.  
Cleveland, OH 44115  
(216) 687-5599  
[www.csuohio.edu/gradcollege/](http://www.csuohio.edu/gradcollege/)

### For program contact information:

Department of Chemistry  
Science and Research Bldg.  
Room 397, (216) 687-2451  
Yan Xu, Graduate Program  
Director  
<http://sciences.csuohio.edu/departments/chemistry/>