# Graduate Program in Chemistry

## Objectives

**Master of Science in Applied Chemistry (Thesis or Non-Thesis)**

The Master of Science Degree Program in Applied Chemistry is a specific degree program designed to provide the student with a broader understanding of the areas of chemical laboratory practices and advanced concepts for the educator. Courses will enhance the student's professional skills and capabilities for dealing with the complex laboratory hardware common to the chemical industry. Additionally, the student will be informed of recent trends in research, industrial, and environmental chemistry. Students involved in teaching will be exposed to the latest innovations in computer technology as related to laboratory practices and safety. This program is designed for individuals employed in industrial or educational positions, as well as those planning to enter such positions.

Course descriptions [1]

## Admission and Degree Requirements:

**Master of Science Degree in Applied Chemistry**

For admission to this program applicants must have a B.S., B.A., or B.T. in a science area (Biology, Mathematics, Physics, Chemistry, Science Education, etc.) with a minimum 2.5 overall grade point average. Applicants should have at least twenty-four (24) credit hours in Chemistry including two semesters in Organic Chemistry, eight (8) hours in Physics, and six (6) hours in Mathematics. General GRE scores must be submitted. Students not meeting the minimum requirements may be accepted into the program with provisional status upon departmental approval.

**Degree Requirements**

The Master's Degree in Applied Chemistry Program require the completion of thirty (30) credit hours. Thesis Research (6 credit hours) is required in the Master of Science in Applied Chemistry (Thesis) Program. Specific course requirements are available upon request.

**Facilities**

During the 1995 Fall Semester, the department obtained approximately 19,000 ft of additional space of a new science facility shared with the departments of biology and physics. The chemistry area includes nine (9) spacious research laboratories, a 900 ft2 instrument laboratory, computer laboratory, work room with a refrigerated walk-in laboratory, seminar and chemistry resource rooms, six faculty offices and a department suite offices. The department has a wide selection if modern instruments and equipment to support teaching and research. Available equipment include gas chromatographs with a variety of detectors, a head space auto sampler for gas chromatograph, a gas chromatograph /mass selective detector/infrared detector/computer system; 400 mHz nuclear magnetic resonance spectrometer; and instrumentation for flame and flameless atomic absorption, dispersion infrared and FTIR, and ultraviolet-visible spectrophotometers; high performance liquid chromatograph with data collection system; and electroanalytical system.

**Source URL:** http://www.desu.edu/mathematics-natural-sciences-and-technology/graduate-program-chemistry

**Links**
[1] http://www.desu.edu/graduate-course-descriptions