CHEMISTRY, MS

Overview

The M.S. degree in chemistry will be awarded upon successful completion of the equivalent of 30 hours of coursework, participation in departmental seminars and, as an option, research.

Requirements

Course Requirements (30 hours total)

Students must complete **four** 3-hour core courses. Students must also take the one-hour seminar course (CHEM 7870 Division Seminar (1 c.h.), CHEM 7880 Division Seminar (1 c.h.)) each of the first two semesters and may count up to three hours of seminar toward the degree. The remaining 15/16 hours of coursework may consist of elective courses and can include research within the chemistry department. No more than six (6) hours of research can be counted toward the degree.

Course ID	Title	Credits
Select four of the following:		
CHEM 6160	Interm Physical Chemistry II	3
CHEM 6830	Intro To Biochemistry	3
CHEM 6840	Intermediate Biochemistry	3
CHEM 7110	Intro to Quantum Mechanics	3
CHEM 7210	Inorganic Stru & Bond	3
CHEM 7220	Inorganic Reaction Mechanics	3
CHEM 7240	Organometallic Chemistry (Main Group Metals)	3
CHEM 7410	Adv Organic Physical Organic	3
CHEM 7420	Adv Organic Spectroscopy	3
CHEM 7460	Adv Organic-Synthetic Ap	3

Elective Courses and Research

The remaining five/six elective courses should be selected from 6000/7000 level chemistry courses (other than 7870 - 7900). Up to six hours of the 30 hours required for the degree may be taken in CHEM 7890 Techniques of Research (1-9 c.h.)/CHEM 7900 Techniques of Research (1-9 c.h.). Students taking research would be expected to commit at least 4 hours per week doing research for each hour of credit earned and they would be required to submit a paper summarizing their research to the faculty member supervising the research.

Seminar

Registration for, and attendance at, Departmental seminars is required. MS students must enroll in the one-hour seminar course (CHEM 7870 Division Seminar (1 c.h.), CHEM 7880 Division Seminar (1 c.h.)) each of the first two semesters in residence. Up to three (3.0) hours of credit for the seminar course may be applied to the M.S. degree requirements.

Cumulative Exams

Non-thesis M.S. candidates are not required to take cumulative exams.

Typical Paths to Degree

The degree can be completed in a variety of ways, but students may take no more than four courses plus seminar per semester. Common paths to the degree would be two semesters of coursework plus a summer (A) or three semesters of coursework/research (B). Students following plan A would take four courses plus seminar each semester and would complete the degree by doing four hours (30 hours per week) of research in one summer semester. Those pursuing path B would take three courses plus seminar each of three semesters. After the first semester, path B students may take up to six hours of research as a substitute for lecture courses.

Program String and Field of Study Code: SEMS_GR, CHEM

Contact

For more information, contact the School of Science and Engineering (https://applygrad.tulane.edu/register/SSEInquiry/).