

CHEMISTRY

MASTER OF SCIENCE (M.S.)

PROGRAM DESCRIPTION:

Students may begin their program at the start of either the fall or the spring semester. Completion of requirements for the Master of Science degree in Chemistry generally takes two years for students who enter with the equivalent of an ACS approved BS in Chemistry. There is a substantial research component to the program culminating in oral defense of a thesis whose basis is an original contribution to the discipline.

While the twelve research faculty span the major sub-disciplines of chemistry (analytical, inorganic, organic and physical), the work is focused in four core areas that bridge these traditional demarcations: (1) Electrochemistry and Surface Science, (2) Molecular Spectroscopy and Photodynamics, and (3) Organic Synthesis and Chemical Reaction Mechanisms, and (4) Nanostructured Composites for Catalytic and Sensing Applications.

ADMISSION REQUIREMENTS:

Applicants must meet the admission requirements of the Graduate School and specific requirements of the Chemistry program. Graduate School requirements can be accessed online at www.usd.edu/grad.

Full acceptance into this program requires an acceptable major in chemistry with an undergraduate GPA of 2.7 or higher, a GRE of 147 in Quantitative Reasoning and 134 in Verbal Reasoning or higher, and satisfaction of such additional requirements as may be stipulated in order to provide a course background equivalent to that of an ACS-approved undergraduate major.

While most students entering the graduate program in the Department of Chemistry have an undergraduate degree in chemistry, admission on a provisional basis may be extended to students with other backgrounds, provided their records indicate the ability to complete the program successfully

APPLICATION DEADLINE:

Priority: April 15
or 6-8 weeks before classes begin



UNIVERSITY OF
SOUTH DAKOTA

GETTING STARTED:

Prospective graduate students may apply through the Graduate School at www.usd.edu/grad/how-to-apply.cfm.

The Graduate School forwards completed applications to the appropriate academic department for review. The department will then recommend the admission status of the applicant to the Dean of the Graduate School, who will make the final decision on admission.

NON-DEGREE PURSUANT STATUS:

To experience the University of South Dakota as a non-degree pursuant student, the University offers graduate students the option of learning under a non-degree pursuant classification. Up to nine credit hours earned as a non-degree pursuant student may be applied to a graduate degree from USD at the discretion of the academic department.

Please note: Enrollment in a course does not guarantee acceptance into the program.

Enrolling as a non-degree pursuant student is easy. Simply complete the online registration form at <https://www.usd.edu/cde/registration> during the registration session open to the public.

FOR MORE INFORMATION:

For more information, please visit www.usd.edu/grad or contact:

University of South Dakota
Department of Chemistry
Phone: 605-677-5487
Fax: 605-677-6397
chemistry@usd.edu

University of South Dakota
Graduate School
Phone: 605-677-6240
Phone: 800-233-7937
grad@usd.edu
www.usd.edu/grad

Revised May 2012

PROGRAM REQUIREMENTS

Master of Science (with thesis): Total credit hours: 30

Chemistry Core: 14 credit hours

Graduate Seminar: 4 credit hours

Chemistry or other electives: 6 credit hours

Thesis: 6 credit hours

Chemistry Core Coursework:

Course	Course Title	Credit Hours
CHEM 726	Advanced Organic Chemistry	4
CHEM 730	Advanced Analytical Chemistry	3
CHEM 744	Advanced Physical Chemistry	4
CHEM 752	Advanced Inorganic Chemistry	3
CHEM 790	Graduate Seminar in Chemistry	4
CHEM 798	Thesis Research in Chemistry	6

Please Note: The candidate must conduct independent research under the guidance of an approved advisor, and prepare and present a thesis that demonstrates the addition of significant knowledge to some area of chemistry. The candidate is required to pass comprehensive written examinations covering work in the department; an oral defense of the thesis is required after acceptance by the student's advisory committee.



UNIVERSITY OF
SOUTH DAKOTA