

Chemistry Master's

Department Information

- **Program Information:**
ndsu.edu/programs/graduate/chemistry (<http://ndsu.edu/programs/graduate/chemistry/>)
- **Department Web Site:**
ndsu.edu/chemistry/ (<http://ndsu.edu/chemistry/>)
- **Application Deadline:**
Fall semester- April 15; Spring semester- October 31 (If there are no spring openings, spring applications are automatically considered for the subsequent fall semester.)
- **Test Requirement:**
GRE required for applicants who have not earned a degree in the U.S.; GRE (general and subject) recommended for domestic applicants.
- **English Proficiency Requirements:**
RA - TOEFL 71, IELTS 6, Duolingo 105; TA Grader - TOEFL 79, IELTS 6.5, Duolingo 110; TA Instructor - TOEFL 81, IELTS 7, Duolingo 115

Apply Now (https://ndsugrad.my.site.com/Application/TX_SiteLogin/?startURL=/Application/TargetX_Portal__PB)

Code	Title	Credits
Required Courses		
CHEM 720	Introduction to Chemical Research	2
CHEM 790	(second year seminar)	1
or BIOC 790		
MICR 720	Scientific Integrity	1
CHEM 790	(defense seminar)	1
or BIOC 790		
Didactic Credits (601-689, 691; 700-789, 791; 800-889 and 891)		16 *
CHEM 798		6-10
or BIOC 798		
Total Credits Required		30
As part of total semester credits, the following departmental courses are recommended for students based on discipline:		
Analytical		
CHEM 632	Analytical Chemistry II	3
CHEM 730	Separations	2
CHEM 732	Advanced Survey of Analytical Chemistry	4
CHEM 736	Mass Spectrometry	2
Biochemistry and Molecular Biology		
BIOC 673	Methods of Biochemical Research	4
BIOC 674	Methods of Recombinant DNA Technology	3
BIOC 701	Comprehensive Biochemistry I	4
BIOC 702	Comprehensive Biochemistry II	4
Inorganic		
CHEM 724	Chemical Applications of Group Theory	1
CHEM 725	Advanced Survey of Inorganic Chemistry	4
CHEM 727	Organometallic Chemistry	3
CHEM 728	Physical Methods for Chemical and Biomolecular Research	2
CHEM 744	Organic Spectroscopy	2
Organic		
CHEM 741	Physical Organic Chemistry I	4
CHEM 742	Physical Organic Chemistry II	2
CHEM 744	Organic Spectroscopy	2

CHEM 745	Organic Synthesis	4
Physical		
CHEM 665	Survey of Physical Chemistry	4
CHEM 760	Statistical Thermodynamics	4
CHEM 763	Kinetics	2
CHEM 764	Dynamics	2

* A minimum of 10 must be from courses numbered 701-789; 791 or 800-889; 891

Admission and Application Requirements

- Graduate School admission and application requirements are found on the Admission Information (<https://catalog.ndsu.edu/past-bulletin-archive/2025-2026/graduate/admission-information/>) page.