

Chemistry

The Department of Chemistry offers programs of study leading to the Doctor of Philosophy and Master of Science degrees. These degrees are based on coursework and original research. Many research projects merge disciplines such as chemical/synthetic biology, biophysics/physics, computational science, informatics, photonics/photophysics and materials science with chemistry. General courses as well as advanced and special topics courses are offered.

Master's Degree Requirements

The Master of Science (M.S.) degree in chemistry is a research degree that requires six graduate courses, a minimum of 30 credit hours, and research leading to a thesis.

Doctoral Degree Requirements

In the doctoral program, emphasis is placed on original research and a comprehensive knowledge of one's chosen field.

Student Financial Support

Incoming graduate students are supported by departmental teaching assistantships. Outstanding applicants are eligible for supplemental fellowships during their first year of study. Research assistantships are normally available to second-, third-, and fourth-year students. The department also has fellowships for students interested in the area of electronic materials, biotechnology and pharmaceutical and synthetic organic chemistry, as well as travel funds to attend and deliver an oral presentation professional meeting(s).

Other Relevant Information

The Chemistry Department forms part of the College of Sciences. More than one dozen new faculty members have been added in the last ten years, thereby greatly enhancing opportunities for graduate research especially in cutting edge interdisciplinary programs.

Chemistry Program Website (<https://chemistry.sciences.ncsu.edu/graduate/>)

Admission Requirements

Applicants should have an undergraduate degree in chemistry or in a closely related field with a strong chemistry background. A GPA of at least 3.0 in the sciences is needed for consideration. GRE General Test scores are not required. Admission decisions are made as completed applications are received. For most favorable consideration for the Fall term, all application materials should be received by January 15 (both domestic and international students).

Applicant Information

- **Delivery Method:** On Campus
- **Entrance Exam:** None
- **Interview Required:**

Application Deadlines

- **Fall:** January 15th (US and Intl)

Degrees

- Chemistry (MS) (<http://catalog.ncsu.edu/graduate/sciences/chemistry/chemistry-ms/>)
- Chemistry (PhD) (<http://catalog.ncsu.edu/graduate/sciences/chemistry/chemistry-phd/>)
- Chemistry (Minor) (<http://catalog.ncsu.edu/graduate/sciences/chemistry/chemistry-minor/>)

Faculty

Full Professors

Sabre Kais

Felix Nicholas Castellano

Stefan Franzen

Reza Ghiladi

Edith Glazer

Christopher B. Gorman

Elon Ison

Elena Jakubikova

Jonathan S. Lindsey

Lucian Lucia

Thomas Makris

James D. Martin

David C. Muddiman

Alexander A. Nevzorov

Maria T. Oliver-Hoyo

Walter James Pfaendtner

Joshua Pierce

David A. Shultz

Alexej I. Smirnov

Brian Space

Gavin John Williams

Yi Xiao

Yaroslava G Yingling

Associate Professors

Nelson R. Vinueza Benitez

Yevgeny Brudno

Wei-Chen Chang

Ryan Chiechi
Vincent Lindsay
Caroline Proulx
Tatyana I. Smirnova
Thomas Theis

Assistant Professors

Raja Ghosh
Milena Jovanovic
Xiaotong Li
Jun Ohata

Practice/Research/Teaching Professors

Jeremiah Feducia
Audrey Fikes
Daniel Fowler
David Heidary
Ana Ison
Kirsten Kramer
Naish Laloo
Cassie Lilly
Marion Martin
Gregory S. McCarty
Lori Petrovich
Ghada Rabah
Kay Sandberg
Laura Sremaniak
Masahiko Taniguchi
Travis Varner
Maxim Voynov

Emeritus Faculty

Robert D. Bereman
Charles Boss
Edmond Bowden

Phil Brown
Carl L. Bumgardner
Halbert H. Carmichael
Daniel L. Comins
Forrest W. Getzen
Forrest C. Hentz
Morteza Khaledi
S. Levine
Gregory Neyhart
William L. Switzer
Robert Warren
Dennis W. Wertz
Myung H. Whangbo
Jerry L. Whitten

Adjunct Faculty

V. Bornemann