Chemistry, PhD

Chemistry contributes to solving a broad range of scientific problems in fields like energy, disease diagnosis and treatment, and materials design and production. In this degree program, you'll learn to use the tools of molecular-level thinking to solve problems, create new scientific knowledge and develop skills to tackle complex challenges.

Program Description

Degree Awarded: PHD Chemistry

The PhD program in chemistry in the School of Molecular Sciences provides students with the training they need to solve molecular scale problems and to be successful independent scientists who can contribute to current challenging societal issues. Students earning a doctorate in chemistry from the School of Molecular Sciences are trained in the foundation disciplines of analytical, organic, physical, inorganic, environmental or geological chemistry, but most also will choose to learn by joining transdisciplinary research teams that work on larger, mission-based contemporary problems in areas such as:

- energy and sustainability
- frontiers of chemical measurement
- fundamental molecular science
- geologic and biospheric science
- materials and nanoscience
- medicine and health
- structure function and dynamics

Students should visit the prospective student page (https://sms.asu.edu/graduate-study), to learn more about this doctoral program and the graduate research page (https://sms.asu.edu/graduate-study/research) to learn about the cutting-edge, transdisciplinary research being conducted in the school. The doctoral program in chemistry prepares students for professional careers in industry, government and academia.
At a Glance

- **College/School:** College of Liberal Arts and Sciences
- **Location:** Tempe campus

Degree Requirements

84 credit hours, a written comprehensive exam, an oral comprehensive exam, a prospectus and a dissertation

six graduate-level courses (12-18)
enrollment in a BCH 501 or CHM 501 seminar each semester (8)
CHM 792 Research (46-52)
CHM 799 Dissertation (12)

Additional Curriculum Information

The program consists of coursework and seminars selected by the student in consultation with the student's supervisory committee and based on the student's area of research.

Qualifying exams consisting of a written comprehensive exam, an oral comprehensive exam and a prospectus are required to advance to candidacy. Students must successfully defend their dissertation during a public final oral defense.

Students must also maintain a minimum GPA of 3.00 (scale is 4.00 = "A") or better.

Admission Requirements

Applicants must fulfill the requirements of both the Graduate College and the College of Liberal Arts and Sciences.

Applicants are eligible to apply to the program if they have earned a bachelor's or master's degree in chemistry, biochemistry or a closely related field from a regionally accredited institution.

Applicants must have a minimum of a 3.00 cumulative GPA (scale is 4.00 = "A") in the last 60 hours of a student's first bachelor's degree program.

All applicants must submit:

1. graduate admission application and application fee
2. official transcripts
3. personal statement
4. GRE scores
5. three letters of recommendation
6. proof of English proficiency

Additional Application Information
An applicant whose native language is not English (regardless of current residency) must provide proof of English proficiency.

In addition to the admission application, applicants must complete an online supplemental application to the School of Molecular Sciences. The supplemental application will be available 24 to 48 hours after submission of the admission application. The personal statement and contact information for the letters of recommendation will be submitted as part of the supplemental application. Information about the supplemental application can be found on the School of Molecular Sciences website. Applications lacking a supplemental application will not be reviewed.

Application Deadlines

Fall

Contact Information

School of Molecular Sciences | PSD 102
smsgrad@asu.edu | 480-965-4664
Admission Deadlines