Chemical Engineering, PhD

Program Description

Degree Awarded: PHD Chemical Engineering

The chemical engineering faculty offer a graduate program leading to the PhD in chemical engineering.

Areas of research emphasis include atmospheric aerosols, biomolecular engineering, biosensors, chemical therapies for neurodegenerative diseases, electrochemistry, electronic materials processing, engineering education, flexible display technology, fuel cells, inorganic membranes, process design and operations, protein synthesis, transport phenomena in living systems and water purification.

A graduate handbook detailing information on graduate studies in chemical engineering is available on the school website. For additional details, students should contact the Graduate Advising Office in the School for Engineering of Matter, Transport and Energy.

At a Glance

- **College/School:** Ira A. Fulton Schools of Engineering
- **Location:** Tempe campus

Degree Requirements

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

**Required Core (9 credit hours)**
- CHE 533 Transport Processes I (3)
- CHE 543 Thermodynamics of Chemical Systems (3)
- CHE 544 Chemical Reactor Engineering (3)

**Technical Electives (18 credit hours)**
Other Requirements (5 credit hours)
CHE 591 Seminar (5)

Research (12 credit hours)
CHE 792 Research (12)

Additional Research/Electives (28 credit hours)

Culminating Experience (12 credit hours)
CHE 799 Dissertation (12)

Additional Curriculum Information
Technical electives are from within or outside the chemical engineering program.

Admission Requirements

Applicants must fulfill the requirements of both the Graduate College and the Ira A. Fulton Schools of Engineering.

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

Applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in the last 60 hours of their first bachelor's degree program, or applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in an applicable master's degree program.

All applicants must submit:

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

Additional Application Information
An applicant whose native language is not English is required to achieve a minimum score of 100 on the internet-based TOEFL regardless of current residency.

Students should see the program website for application deadlines.
Application Deadlines

Fall

Spring

Contact Information

Chemical Engineering Program | ECG 202
semtegrad@asu.edu | 480-965-4979
Admission Deadlines