# CHEMICAL ENGINEERING

## Degree Requirements

### Master of Science (M.S.)

Requirements listed here are in addition to Graduate Council policies listed under GCAC-600 Research Degree Policies. (https://gradschool.psu.edu/graduate-education-policies/)

Two tracks are available in the Chemical Engineering M.S. program, a thesis and a non-thesis track. A minimum of 18 course credits (30 credits total) is required of the thesis track, which must also include completion of a research thesis and oral defense of the thesis. A minimum of 21 course credits (30 credits total) is required of the non-thesis track. This track also includes a 7-credit research project during the spring and summer that includes a culminating written paper and presentation.

All M.S. students complete a set of core courses in the fundamental chemical engineering disciplines of thermodynamics, reaction and reactor kinetics, and transport. There is no communication or language requirement. Continuous registration is required for all graduate students until the thesis or final paper is approved.

### Doctor Of Philosophy (Ph.D.)

Requirements listed here are in addition to Graduate Council policies listed under GCAC-600 Research Degree Policies. (https://gradschool.psu.edu/graduate-education-policies/)

A minimum of 30 graduate course credits is required and must include a minimum of 15 credits of 500-series Chemical Engineering courses taken at the University. There is no communication or language requirement. The comprehensive examination consists of a written research proposal or project defended orally after it has been accepted.

Continuous registration is required for all graduate students until the dissertation is approved.