

Worksheet for Ph.D. in Chemical Engineering

To start this degree an undergraduate degree in Chemical Engineering is required. Background courses in Chemical Engineering will be completed as needed.

ECH 6105 Advanced Thermodynamics OR ECH 6107 Molecular Thermodynamics	3
ECH 6285 Advanced Transport	3
ECH 6840 Mathematical Methods for Chemical Engineers	3
ECH 6515 Advanced Reaction Engineering OR ECH 6506 Chemical Engineering Kinetics	3
ECH 6412 Processes Analysis and Modeling	3
ECH6931 Graduate Seminar courses (1 hour each; at least three)	3
Other 5000 or 6000 level structured courses (The exact distribution of these hours will be determined by the student, graduate advisor, and the supervisory committee to provide the student with a stimulating educational experience)	27
Electives (25 hours) (These can include courses such as directed research and independent study)	
ECH 7980 Dissertation (Dissertation hours are not to exceed 30 hours and you must be a Ph.D. candidate to complete dissertation hours.)	20 (minimum)

Qualifying Examination

Qualifying Examination preferably to be completed by the end of the second year of study. The dissertation committee will evaluate a written dissertation proposal and an oral defense. Poor performance on the qualifying exam based on the judgment of the Committee may result in the student failing the exam. If a student does not pass on the first attempt, he/she may request in writing to repeat the exam. Students who fail the Qualifying Examination the second time will be dismissed by the Major.

Additional Requirements

Publication in a refereed journal with the student as the first and primary author. At least 1 is required with the expectation that most Ph.D. students will have 3 or more. The publication must be based on your Dissertation research. Presentation at a conference or publication in a proceeding (even if refereed) is not sufficient.