CHEMICAL ENGINEERING, DOCTOR OF PHILOSOPHY (PH.D.)

The Doctor of Philosophy degree is granted only upon sufficient evidence of high attainment in scholarship and the ability to engage in independent research. The Chemical Engineering Department requires minimum of 45 semester hours of course work beyond the B.S. degree. A minimum of 18 credit hours of Thesis Research is required; students in the PhD program can register only for ENCH899. In addition to Graduate School regulations, special degree requirements include a research aptitude Ph.D. qualifying examination and a research proposal including an oral presentation covering the projected Ph.D. dissertation. All Ph.D. graduate students are required to serve as Teaching Assistants for two semesters. Other requirements, including CORE course GPA requirements are found on the Department website: www.ench.umd.edu.

Course | Title | Credits
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Core Requirements | | 27
Minimum of 27 credits of courses numbered 600 or above | 27
ENCH609 | Graduate Seminar |
ENCH610 | Chemical Engineering Thermodynamics |
ENCH620 | Methods of Engineering Analysis |
ENCH630 | Transport Phenomena |
ENCH640 | Advanced Chemical Reaction Kinetics |
Dissertation Research Requirements | | 12
ENCH899 | Doctoral Dissertation Research |
ENCH899 | Doctoral Dissertation Research |
or ENCH898 | Pre-Candidacy Research |
Total Credits | 45