Engineering, Ph.D.

Degree requirements for the Ph.D. program for those admitted with a Master's Degree in Engineering

- A total of 63 credits to complete the requirements for the degree.
- Students should successfully complete the Ph.D. Qualifying Exam.
- Students should successfully defend dissertation proposal and final dissertation.

Code	Title	Semester Credit Hours
Core Courses		
PHEN 6304	Seminar & Research Integrity	3
PHEN 6313	Adv Eng Math	3
Dissertation (CEEN 6306 or EEN 6306 or MEEN 6306 or ESEN 6306)		**30-45**
Mandatory 6000 level courses		**12**
Other Electives (5000 or 6000 level courses)		**0-15**
TOTAL		63 Credits

Code	Title	Semester Credit Hours
Elective Courses		
CEEN 6303	Special Topics in Civil Engineering	3
EEEN 6303	Spec Tops in Elec Engineering	3
EEEN 6310	Intell. Control Optimization	3
EEEN 6311	Nonlinear Systems	3
EEEN 6383	Robust System Theory	3
EEEN 6385	Adaptive Array Systems	3
MEEN 6303	Special Topics Mechanical Eng	3
MEEN 6321	Adv Eng Data Analysis & Opt	3
MEEN 6325	Analytical Dynamics	3
MEEN 6326	Advanced Control Systems	3
MEEN 6327	Nonlinear Solid Mechanics	3
MEEN 6330	Advanced Composite Materials	3
MEEN 6331	Advanced Polymer Science	3
MEEN 6332	Advanced Mechanics of Composites and Design	3
MEEN 6333	Nondestructive Evaluation Techniques	3
ESEN 6303	Adv T: Sustainable Energy Syst	3
ESEN 6306	Proposal/Dissertation	1-9
ESEN 6333	Advanced Wind Farm Design	3

In exceptional cases, students may be admitted directly to the Ph.D. program with a Bachelor of Science in Engineering degree. In such cases, students must complete 30 credits of graduate level courses in addition to the 63 credits as required above.