

SYSTEMS ENGINEERING (PH.D.)

Degree Requirements

(67 Credit Hours)

Case 1: With Engineering Bachelor's Degree Only

Code	Title	Hours
SE 601	Systems Eng Fundamentals	3
SE 606	Systems Architecture	3
SE 603	Integration, Test & Evaluation	3
SE 602	Risk and Failure Analysis	3
SE 609	Engineering Research Methods	3
Systems Engineering Elective		3
Other Systems Engineering or Engineering Electives		at least 30
Research Hours		at least 19
Total credit hours required for completion:		at least 67

Case 2: With STEM Bachelor's Degree (Other Than Engineering)

Code	Title	Hours
Pre-requisite undergraduate courses to be determined at the time of admission. It is highly recommended that the applicant has taken at least three semesters of calculus and a college-level physics course.		
SE 601	Systems Eng Fundamentals	3
SE 606	Systems Architecture	3
SE 603	Integration, Test & Evaluation	3
SE 602	Risk and Failure Analysis	3
SE 609	Engineering Research Methods	3
Systems Engineering Elective		3
Other Systems Engineering or Engineering electives		at least 30
Research Hours		at least 19
Total credit hours required for completion:		at least 67

Case 3: With Engineering Master's Degree

Code	Title	Hours
Engineering Master's degree transfer credits to be determined at the time of admission		
SE 601	Systems Eng Fundamentals	3
SE 606	Systems Architecture	3
SE 603	Integration, Test & Evaluation	3
SE 602	Risk and Failure Analysis	3

SE 609	Engineering Research Methods	3
Systems Engineering Electives		3-9
Research Hours		at least 19
Total credit hours required for completion:		at least 67

Case 4: With STEM Master's Degree (Other Than Engineering)

Code	Title	Hours
Engineering Master's degree transfer credits to be determined at the time of admission		
SE 601	Systems Eng Fundamentals	3
SE 606	Systems Architecture	3
SE 603	Integration, Test & Evaluation	3
SE 602	Risk and Failure Analysis	3
SE 609	Engineering Research Methods	3
Systems Engineering Electives (total transfer credits to be determined at the time of admission)		TBD
Research Hours		at least 19
Total credit hours required for completion:		at least 67

Required Examinations

The required examinations in the Systems Engineering Ph.D. program have two parts; each has a written component and an oral component. The examinations are:

- Qualifying Examination: Written and Oral
- Proposal Defense: Written and Oral
- Dissertation Defense: Written and Public Oral Defense