

## Systems Engineering M.S. 2016-2017

### **Systems Engineering Core Requirements (21 hours)**

- [SENG 5130](#) Systems Engineering Processes
  - [SENG 5230](#) Systems Engineering Economics
  - [SENG 5231](#) Concurrent Engineering
  - [SENG 5232](#) Engineering Specialty Integration
  - [SENG 5233](#) Systems Engineering Analysis and Modeling
  - [SENG 5330](#) Risk Management
  - [SWEN 5230](#) Software Project Management
- Or
- [EMGT 5430](#) Professional Project Management

### **Systems Engineering Elective Options**

- [SENG 5332](#) Decision Analysis for Systems Engineering
- [SENG 5334](#) Human Factors Engineering
- [SENG 5532](#) Advanced Decision Analysis for Systems Engineering
- [MGMT 5636](#) Management of Technology
- [MGMT 5638](#) Leading Technology
- [INDH 5335](#) Ergonomic Methods and Analysis Techniques
- [INDH 6332](#) Safety Engineering

These candidates may also choose elective options from the CENG, SWEN or EMGT engineering programs.

### **Thesis Option**

(six hours of thesis + nine hours of electives)

- [SENG 6939](#) Master's Thesis Research

Electives in engineering, science, and mathematics approved by the students adviser

### **Systems Engineering Capstone Option**

(3 hours of capstone + 12 hours of electives)

- [SENG 6837](#) Systems Engineering Capstone Project

Electives in engineering, science, and mathematics approved by the students adviser