

# Systems Engineering

## Master of Engineering: 30 Credits or 10 Courses

Students pursuing this option must complete six core courses and four technical electives. There is no research or thesis required for this degree.

## Graduate Certificate in Engineering: 12 credits or 4 courses

Students pursuing a Graduate Certificate in Engineering must complete the following courses:

- **ENPM641** Systems Concepts, Issues, and Processes
- **ENPM642** Systems Requirements, Design and Trade-Off Analysis
- **ENPM643** Systems Projects, Validation and Verification

And one of the courses listed below:

- **ENPM644** Systems Projects, Validation and Verification
- **ENPM646** System Life Cycle Cost Analysis and Risk Management
- **ENPM647** Systems Quality and Robustness Analysis

### Systems Core Courses (take six):

**ENPM641** Systems Concepts, Issues, and Processes

**ENPM642** Systems Requirements, Design and Trade-Off Analysis [ENPM641]

**ENPM643** Systems Projects, Validation and Verification [ENPM642]

**ENPM644** Human Factors in Systems Engineering

**ENPM646** System Life Cycle Cost Analysis and Risk Management

**ENPM647** Systems Quality and Robustness Analysis

### Systems Technical Electives (choose four):

**ENPM808M** Systems Engineering Management

**ENPM808I** Logistics (*Summer Only*)

Additional electives must be approved by advisor

[Prerequisite Course]

### Sample Full Time Plan of Study

Fall	Spring
ENPM641	ENPM642 [ENPM641]
ENPM646	ENPM644
Elective	ENPM647
Fall	Spring
ENPM643 [ENPM642]	Elective
Elective	
Elective	

# Preliminary 10-Course Plan

## Systems Engineering

Name:			Date:					
UID:								
Fall			Spring			Summer		
Course	Core/ Elective	Credit	Course	Core/ Elective	Credit	Course	Core/ Elective	Credit
Fall			Spring			Summer		
Course	Core/ Elective	Credit	Course	Core/ Elective	Credit	Course	Core/ Elective	Credit
Fall			Spring			Summer		
Course	Core/ Elective	Credit	Course	Core/ Elective	Credit	Course	Core/ Elective	Credit
Fall			Spring			Summer		
Course	Core/ Elective	Credit	Course	Core/ Elective	Credit	Course	Core/ Elective	Credit
Fall			Spring			Summer		
Course	Core/ Elective	Credit	Course	Core/ Elective	Credit	Course	Core/ Elective	Credit