

# SYSTEMS ENGINEERING (MS)

## Degree Requirements

(30 Credit Hours)

An MSSE student is required to complete a total of 30 graduate credits. These credits include core courses and electives. Below are the three options an MSSE student may pursue.

Code	Title	Hours
<b>Core Courses For All MSSE Options</b>		
SE 500	Engr Probability & Statistics	3
SE 601	Systems Eng Fundamentals	3
SE 602	Risk and Failure Analysis	3
SE 603	Integration, Test & Evaluation	3
SE 606	Systems Architecture	3
<b>Options</b>		
Select one of the following Options:		15
Option 1: Thesis Option (p. 1)		
Option 2: Project Option (p. )		
Option 3: Course Only Option (p. 1)		
<b>Total Hours</b>		<b>30</b>

### Option 1: Thesis Option

This option includes a traditional 6-credit Master's Thesis.

Code	Title	Hours
SE Core Courses Required		15
SE 609	Engineering Research Methods	3
Institutional General Education or Core Curriculum hours required		N/A
Support Courses credit hours required		N/A
Required or Free Electives credit hours required		6
Thesis or Dissertation credit hours required		6
<b>Total Hours</b>		<b>30</b>

Students following the thesis option will give an oral presentation of their work (i.e. thesis defense).

### Option 2: Project Option

This option is suitable for students working on a project related to their employer's discipline and interests.

Code	Title	Hours
SE Core Courses Required		15
SE 594	Projects in SE	3
Institutional General Education or Core Curriculum hours required		N/A
Support Courses credit hours required		N/A
Required or Free Electives credit hours required		12
<b>Total Hours</b>		<b>30</b>

Students following the project option will give a written and oral presentation of their project work.

### Option 3: Course Only Option

Under this option, the Master's degree is awarded after successful study of ten courses.

Code	Title	Hours
SE Core Courses Required		15
Minor credit hours required		N/A
Institutional General Education or Core Curriculum hours required		N/A
Support Courses credit hours required		N/A
Required or Free Electives credit hours required		15
<b>Total Hours</b>		<b>30</b>