# SYSTEMS ENGINEERING (M.S. ONLINE)

The M.S. in Systems Engineering program aims to provide specialized skills and training engineers will need to address subjects related to systems engineering according to the standard set by the International Council on Systems Engineering in an online instruction method. The program offers two concentrations: 1) General Commercial Systems, and 2) Defense Systems.

## **Admission Requirements**

Admission to the M.S. in Systems Engineering is contingent upon admission to the Graduate School (http://bulletins.wayne.edu/graduate/general-information/admission/). Students must have a bachelor's degree or the equivalent in Engineering from an accredited college or university. Students from all science, technology, engineering, and math (STEM) disciplines will be considered for admission. Professional experience will be considered in admission.

## **Program Requirements**

The M.S. in Systems Engineering is offered in an entirely online format. The program requires students to complete a minimum of thirty credits in course work. There will be two concentrations: General Commercial Systems and Defense Systems. Both concentrations offer a thesis option. All coursework must be completed in accordance with the regulations of the Graduate School (http://bulletins.wayne.edu/graduate/general-information/academic-regulations/) and the College of Engineering (http://bulletins.wayne.edu/graduate/college-engineering/academic-regulations/).

### **General Commercial Systems Concentration**

Code	Title	Credits	
Core Courses			
IE 6405	Integrated Product Development	3	
IE 6270	Engineering Experimental Design	3	
SYE 6490	Introduction to Systems Engineering in Design	3	
SYE 7495	Systems Engineering Capstone	3	
Concentration Course			
SYE 6491	Systems Engineering Thinking and Concepting	3	
Elective Courses			
Select 15 credits of elective courses.		15	
Total Credits		30	

#### **Defense Systems Concentration**

Code	Title	Credits		
<b>Core Courses</b>				
IE 6405	Integrated Product Development	3		
IE 6270	Engineering Experimental Design	3		
SYE 6490	Introduction to Systems Engineering in Design	3		
SYE 7495	Systems Engineering Capstone	3		
Concentration Courses				
SYE 6491	Systems Engineering Thinking and Concepting	3		
SYE 6492	Adaptive Acquisition	3		
SYE 7491	Systems Engineering Processes – Early to Mid Design	- 3		
SYE 7492	Systems Engineering Processes – Late to Post Design	:- 3		

#### **Elective Courses**

Total Credits	30
Select 6 credits of elective courses.	6