



**OHIO**  
UNIVERSITY

## Russ College of Engineering and Technology Industrial and Systems Engineering

The Department of Industrial and Systems Engineering offers a Bachelor of Science degree program in Industrial and Systems Engineering that can be completed in three years by students who have some preparatory courses and take courses during the summer.

The scheduling scenario below is intended to present an example pattern by which this major can be completed in three years. Those interested in pursuing this option need to work with an academic advisor to develop a specific plan to earn the 122 credit hours required for graduation.

### BS7255: Industrial and Systems Engineering

#### Post-Secondary Coursework or Transfer/AP/IB Credit

Course Subject and Title (Or General Tier/Major Requirement)	Credit Hours	Upper Division	Minimum Grade
MATH 2301: Calculus I	4		
ENG 1510: Writing and Rhetoric I	3		
Total hours (minimum 15)	7		

#### Semester 1: Fall

Course Subject and Title (Or General Tier/Major Requirement)	Credit Hours	Upper Division	Minimum Grade
MATH 2302: Calculus II	4		
PHYS 2051: Physics I	5		
ET 1100: Eng Graphics Fundamentals	2		
THAR 1130: Acting Fund. I (also Tier II)	3		
Total hours for semester	14		

#### Semester 2: Spring

Course Subject and Title (Or General Tier/Major Requirement)	Credit Hours	Upper Division	Minimum Grade
MATH 3200: Applied Linear Algebra	3	Yes	
PHYS 2052: Physics II	5		
ISE 1100: Intro to ISE	3		
PSY 1010: General Psychology	3		
Total hours for semester	14		

**Semester 3: Summer**

Course Subject and Title (Or General Tier/Major Requirement)	Credit Hours	Upper Division	Minimum Grade
ISE 3200: Engineering Statistics	3	Yes	
PHIL 1300: Intro to Ethics	3		
: Tier II Elect – CCP	2		
: Math/Science Elective	3		
: Engineering Science Elective	3	Yes	
Total hours for semester	14		

**Semester 4: Fall**

Course Subject and Title (Or General Tier/Major Requirement)	Credit Hours	Upper Division	Minimum Grade
CHEM 1210: Chemistry I	4		
ISE 4140: Operations Research	3	Yes	
ISE 2100: Data Management & Display	3	Yes	
ET 3300: Engineering Economy	2	Yes	
ETM 3030: Appl of Object-Oriented Prog	3	Yes	
Total hours for semester	15		

**Semester 5: Spring**

Course Subject and Title (Or General Tier/Major Requirement)	Credit Hours	Upper Division	Minimum Grade
ISE 4150: Information Systems Engineering	3	Yes	
ISE 3210: Engineering Probability	3	Yes	
ISE 3340: Work Design	3	Yes	
ISE 4160: Principles of Six Sigma	4	Yes	
Engineering Science Elective	2	Yes	
Total hours for semester	15		

**Semester 6: Summer**

Course Subject and Title (Or General Tier/Major Requirement)	Credit Hours	Upper Division	Minimum Grade
Econ 1030: Principles of Microeconomics	3		
Business Elective	3		
Business Elective	3		
Engineering Science Elective	3	Yes	
Math/Science Elective	3	Yes	
Total hours for semester	15		

**Semester 7: Fall**

Course Subject and Title (Or General Tier/Major Requirement)	Credit Hours	Upper Division	Minimum Grade
ISE 4120: Inventory & Mfg. Control I	3	Yes	
ISE 4130: Computer Simulation	3	Yes	
ISE 4190: Senior Capstone I	3	Yes	
ISE 4300: Intro to Designed Expts (PCA)	2	Yes	
ISE 4365: Facility Design and Planning (PCA)	3	Yes	
Total hours for semester	14		

**Semester 8: Spring**

Course Subject and Title (Or General Tier/Major Requirement)	Credit Hours	Upper Division	Minimum Grade
ISE 4191: Senior Capstone II	3	Yes	
ISE 4320: Inventory & Mfg. Control II (PCA)	2	Yes	
ISE 4380: Human Factors Engineering (PCA)	3	Yes	
ETM 3070: Basic Metal Machining (PCA)	3	Yes	
ISE Elective	3	Yes	
Total hours for semester	14		