

# Industrial Management B.A.

## Industrial Management Major

The B.A. Industrial Management major requires a minimum of 120 total hours to graduate. This total includes UNIFI/General Education requirements and the following specified major requirements, plus electives to complete the minimum of 120 hours.

Integrating specific technical background, the Industrial Management major prepares students with a broad spectrum of management skills, critical thinking skills, organizational skills in technological systems for an entry level supervision/management position upon graduation.

### Math and Science:

STAT 1772	Introduction to Statistical Methods <sup>^</sup>	3
CHEM 1010 or CHEM 1020 or CHEM 1110 or PHYSICS 1000 or PHYSICS 1511	Principles of Chemistry <sup>^</sup> Chemical Technology General Chemistry I Physics in Everyday Life General Physics I	3-4

### Required Core:

ENGLISH 1005	College Writing and Research	3
ENGLISH 3772/5772	Technical Writing for Engineering Technologists	3
PHIL 1560	Science, Technology, and Ethics (STE)	3
TECH 3100/5100	Engineering Cost Analysis	3
TECH 3131/5131	Technical Project Management	3
TECH 3142	Statistical Quality Control	3
TECH 3143	Managing Operations and Manufacturing Systems	3
TECH 3180	Lean and Sustainable Operations	3
TECH 4187	Applied Industrial Supervision and Management	3
TECH 4225/5225	Integrated Logistics	3

### Electives: 15

CONSTR 1000	Fundamentals of Construction Management Materials & Methods	
TECH 1008	Basic Manufacturing Processes	
TECH 1010	Fundamentals of Metal Removal	
TECH 1024	Engineering Design with CAD	
TECH 1055	Graphic Communications Foundations	
TECH 2036	Power Technology	
TECH 2065	Industrial Robotics *	
TECH 2114	Making Cool Stuff	
TECH 3169	Digital Imaging *	
TECH 3179	Cooperative Education	

TECH 3196	Industrial Safety	
<b>Total Hours</b>		<b>51-52</b>

<sup>^</sup> Has prerequisite of satisfactory score on ALEKS exam or subsequent remediation.

\* TECH 3169 has prerequisite of TECH 2070.  
TECH 2065 has a prerequisite of CS 1510 or CS 1160; sophomore standing.

## Four-Year Plan

### Industrial Management, B.A.

This is a sample plan of study with a suggested sequencing of classes for the major. University electives may be applied to earn additional academic majors, minors, or certificates. Students should regularly meet with their academic advisor to plan their specific semester schedule to include UNIFI/General Education program and/or university elective hours required.

Course	Title	Hour
<b>Freshman</b>		
<b>Fall</b>		
	UNIFI/General Education or University Electives	9
	CHEM 1020 Chemical Technology	4
	Technical elective course	3
		<b>Hours</b>
		<b>16</b>
<b>Spring</b>		
	UNIFI/General Education or University Electives	6
	STAT 1772 Introduction to Statistical Methods	3
	Technical elective course	6
		<b>Hours</b>
		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
	UNIFI/General Education or University Electives	6
	PHIL 1560 Science, Technology, and Ethics (STE)	3
	Technical elective course	6
		<b>Hours</b>
		<b>15</b>
<b>Spring</b>		
	UNIFI/General Education or University Electives	6
	TECH 2119 Computer Applications in Technology	3
	Technical elective course	6
		<b>Hours</b>
		<b>15</b>
<b>Junior</b>		
<b>Fall</b>		
	UNIFI/General Education or University Electives	3
	ENGLISH 3772/5772 Technical Writing for Engineering Technologists	3
	TECH 3142 Statistical Quality Control	3
	Technical elective course	6
		<b>Hours</b>
		<b>15</b>
<b>Spring</b>		
	UNIFI/General Education or University Electives	6
	TECH 3100/5100 Engineering Cost Analysis	3

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TECH 3131/5131	Technical Project Management	3
Technical elective course		3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
UNIFI/General Education or University Electives		6
TECH 3143	Managing Operations and Manufacturing Systems	3
TECH 4187	Applied Industrial Supervision and Management	3
Technical elective course		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
UNIFI/General Education or University Electives		5
TECH 3180	Lean and Sustainable Operations	3
ENGR 4500	Senior Design	3
TECH 4225/5225	Integrated Logistics	3
<b>Hours</b>		<b>14</b>
<b>Total Hours</b>		<b>120</b>

## Learning Outcomes

### Industrial Management, B.A.

#### Program Educational Objectives (PEOs):

- Use technical skills and critical thinking to focus on the management of resources and projects.
- Communicate effectively in verbal, written, and visual forms.
- Demonstrate leadership, teamwork, and ethical competencies.

#### Student Learning Outcomes (SLOs):

- Communication: Employ effective communication techniques within a management situation.
- Problem Solving: Solve a technological problem using management principles.
- Project Management: Develop a plan for appropriate steps to complete a project.

## Related Programs

- Applied Engineering M.S.
- Manufacturing Engineering Technology B.S.