

Bachelor of Science in Industrial Engineering

3.1.3 Worksheet

Engineering Courses (53 credits)

Required Engineering Courses (49 credits):

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/> IE 300	Industrial Engineering Seminar	1	Senior			
<input type="checkbox"/> IE 230	Probability and Statistics in Engineering I	3	ConP: MA 261			
<input type="checkbox"/> IE 330	Probability and Statistics in Engineering II	3	IE 230			
<input type="checkbox"/> IE 332	Computing in Industrial Engineering	3	ENGR 131, CS 159, ConP: IE 330			
<input type="checkbox"/> IE 335	Operations Research - Optimization	3	MA 265, ConP: EE 302 or CE 302 or IE 332			
<input type="checkbox"/> IE 336	Operations Research - Stochastic Models	3	MA 265, IE 230 ConP: EE 302 or CE 302 or IE 332, MA 266			
<input type="checkbox"/> IE 343	Engineering Economics	3	ENGR 131, MA 166			
<input type="checkbox"/> IE 370	Manufacturing Processes I	3	NUCL 273			
<input type="checkbox"/> IE 383	Integrated Production Systems I	3	IE 335			
<input type="checkbox"/> IE 386	Work Analysis and Design I	3	IE 330			
<input type="checkbox"/> IE 431	Industrial Engineering Design	3	IE 300, all 300 level IE courses, Senior			
<input type="checkbox"/> IE 474	Industrial Control Systems	3	CS 159, EE 201, MA 265, MA 266, ME 270			
<input type="checkbox"/> IE 486	Work Analysis and Design II	3	IE 386			

AUM reserves the right to change program content, course requirements, materials, and/or schedules as deemed necessary

Name:	
UID:	
Date:	

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/> EE 201	Linear Circuit Analysis I	3	ENGR 131, PHYS 172, MA 166 (C-), ConP: MA 261			
<input type="checkbox"/> ME 200	Thermodynamics I	3	CHM 115, ConP: MA 261, ENGR 132			
<input type="checkbox"/> ME 270	Basic Mechanics	3	PHYS 172			
<input type="checkbox"/> NUCL 273	Mechanics of Materials	3	ME 270			

General Engineering Courses (4 credits):

Choose one of the options:

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/> ENGR 131	Transforming Ideas to Innovation I	2	-			
<input type="checkbox"/> ENGR 132	Transforming Ideas to Innovation II	2	ENGR 131			
OR						
<input type="checkbox"/> ENGR 100	First-Year Engineering Lectures	1	-			
<input type="checkbox"/> ENGR 126	Engineering Problem Solving and Computer Tools	3	-			

Required Engineering Credits Planned: _____

Required Engineering Credits Completed: _____

Required Engineering Credits Remaining: _____

Name:	
UID:	
Date:	

Technical Electives (15 credits):

Refer to section 3.1.2.1 ([Technical Elective Program for Industrial Engineering Students](#)) and section 3.8 ([Course Catalogue](#)).

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						

Technical Electives Credits Planned: _____

Technical Electives Credits Completed: _____

Technical Electives Credits Remaining: _____

Name:	
UID:	
Date:	

Mathematics and Science Requirement (32 credits):

	<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/>	MA 165	Analytic Geometry and Calculus I	4	Passing Math Placement Test or MAT 110 or MA 158			
<input type="checkbox"/>	MA 166	Analytic Geometry and Calculus II	4	MA 165			
<input type="checkbox"/>	MA 261	Multivariate Calculus	4	MA 166			
<input type="checkbox"/>	MA 265	Linear Algebra	3	MA 166			
<input type="checkbox"/>	MA 266	Ordinary Differential Equations	3	MA 261			
<input type="checkbox"/>	CHM 115	General Chemistry I	4	ConP: MA 165			
<input type="checkbox"/>	PHYS 172	Modern Mechanics	4	ConP: MA 165			
<input type="checkbox"/>	PHYS 241	Electricity and Optics	3	Pre: PHYS 172			
<input type="checkbox"/>	CS 159	Programming Applications for Engineers	3	ENGR 131			

Mathematics and Science Credits Planned: _____

Mathematics and Science Credits Completed: _____

Mathematics and Science Credits Remaining: _____

Name:	
UID:	
Date:	

Liberal Arts Requirement (25 credits)

English Language and Communication Skills (10 credits)

	<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/>	ENGL 100	English for Academic Studies	3	-			
<input type="checkbox"/>	ENGL 106	First-Year Composition	4	ENGL 100			
<input type="checkbox"/>	COM 114	Speech Communication	3	ENGL 100			



Name:	
UID:	
Date:	

General Education Electives (15 credits)

Refer to Degree Requirements and Course Catalogue

<u>Course Code</u>	<u>Course Title</u>	<u>CR</u>	<u>Pre-Req, ConP</u>	<u>Other Information</u>	<u>Semester</u>	<u>Comments</u>
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						
<input type="checkbox"/>						

Liberal Arts Credits Planned: _____

Liberal Arts Credits Completed: _____

Liberal Arts Credits Remaining: _____

Minimum Total Credits Required for Degree: 125

Total Credits Planned: _____

Total Credits Completed: _____

Total Credits Remaining: _____