

# APPLIED MANUFACTURING ENGINEERING - MANUFACTURING MANAGEMENT (BACHELOR OF SCIENCE)

Course	Title	Credits
Jax MIX General Education Curriculum		41

## Applied Engineering Core

Course	Title	Credits
EH 322 or CBA 350	Technical Writing (WI) Business Communications (WI)	3
CS 201	Introduction to Information Technology	3
AE 210	Manufacturing Fundamentals	3
AE 211	AC/DC Circuits	3
AE 343 or MGT 301	Engineering and Technology Management Principles of Management	3
AE 344	Engineering Economy and Cost Analysis	3
AE 372	Statistical Analysis for Quality Control	3
AE 380	Industrial Safety and Health	3
AE 393	Applied Engineering Junior Seminar	1
AE 494	Applied Engineering Senior Internship (WI)	2
<b>Total Hours</b>		<b>27</b>

## Applied Manufacturing Engineering Major

Course	Title	Credits
AE 251	Computer-Aided Design	3
AE 361	Materials and Processes of Industry	3
AE 366	Control Systems Technology	3
AE 440	Manufacturing Management Systems	3
<b>Total Hours</b>		<b>12</b>

## Manufacturing Management Concentration

Course	Title	Credits
AE 307	Industrial Training	3
AE 330	Production and Inventory Control	3
AE 341	Work Measurement and Methods	3
AE 342 or MGT 385	Employer-Employee Relations Human Resource Management (WI)	3
AE 441	Project Management	3
AE 442	Facilities Planning	3
AE 484	Industrial Ergonomics	3
AE 485	Industrial Safety Management	3
<b>Total Hours</b>		<b>24</b>

In addition to courses noted below, candidates for graduation must successfully complete all JSU Academic Regulations. More information about Jax MIX requirements (<https://catalog.jsu.edu/undergraduate/>)

and Alabama Transfers equivalents (<https://catalog.jsu.edu/undergraduate/alabama-transfers-equivalents/>) can be found in their respective section of the catalog.

Freshman		Hours
<b>Fall</b>		
Jax MIX Communication: EH Composition sequence		3
MS 125	Calculus I (Jax MIX Communication)	4
Jax MIX Experience: History sequence		3
CS 201	Introduction to Information Technology	3
AE 210	Manufacturing Fundamentals	3
SSC 101	First Year Experience	0
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
Jax MIX Communication: EH Composition sequence		3
Jax MIX Experience: History sequence		3
EC 221	Principles of Microeconomics (Jax MIX Experience)	3
AE 211	AC/DC Circuits	3
General Electives		3
<b>Hours</b>		<b>15</b>
<b>Sophomore</b>		
<b>Fall</b>		
Jax MIX Expression: Fine Arts		3
EH 141	Speech (Jax MIX Communication)	3
AE 251	Computer-Aided Design	3
AE 342 or MGT 385	Employer-Employee Relations or Human Resource Management (WI)	3
General Electives		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
Jax MIX Inquiry: Science <sup>1</sup>		4
Jax MIX Experience: Social/Behavioral Science		3
EH 322 or CBA 350	Technical Writing (WI) or Business Communications (WI)	3
AE 372	Statistical Analysis for Quality Control	3
AE 380	Industrial Safety and Health	3
<b>Hours</b>		<b>16</b>
<b>Junior</b>		
<b>Fall</b>		
Jax MIX Inquiry: Science <sup>1</sup>		4
AE 344	Engineering Economy and Cost Analysis	3
AE 361	Materials and Processes of Industry	3
AE 366	Control Systems Technology	3
AE 393	Applied Engineering Junior Seminar	1
<b>Hours</b>		<b>14</b>
<b>Spring</b>		
Jax MIX Expression: Literature		3
AE 307	Industrial Training	3
AE 343 or MGT 301	Engineering and Technology Management or Principles of Management	3
AE 330	Production and Inventory Control	3
General Electives		3
<b>Hours</b>		<b>15</b>
<b>Senior</b>		
<b>Fall</b>		
Jax MIX Expression: Literature		3
AE 341	Work Measurement and Methods	3
AE 441	Project Management	3
AE 485	Industrial Safety Management	3
General Electives		3
<b>Hours</b>		<b>15</b>

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Spring

AE 440	Manufacturing Management Systems	3
AE 442	Facilities Planning	3
AE 484	Industrial Ergonomics	3
AE 494	Applied Engineering Senior Internship (WI)	2
General Electives		3
	<b>Hours</b>	<b>14</b>
	<b>Total Hours</b>	<b>120</b>

The student must have earned an overall grade point average of 2.75 based upon a 4.00 scale to include all AE courses and MS courses with a "C" or better.

- <sup>1</sup> Select from: CY 105 General Chemistry I (3), CY 106 General Chemistry II (3), CY 107 General Chemistry Laboratory I (1), and CY 108 General Chemistry Laboratory II (1) or PHS 201 College Physics I (3), PHS 202 College Physics II (3), PHS 203 College Physics Laboratory Techniques I (1), and PHS 204 College Physics Laboratory Techniques II (1).