

Student Name: \_\_\_\_\_ Student Number: \_\_\_\_\_

**All first-year students and students transferring with less than 24 earned hours must take STU 101 First Year Experience in their first semester. Pass/No Credit \_\_\_\_\_**

**University Requirements: 42 hours**

**I. Written Composition, 6 hours**

	H/A	H/E	Grade	QP
EH 101 or EH 105/115				
EH 102 or EH 105/116				

**II. Humanities/Fine Arts, 12 hours**

Must take EH 141 Oral Communication  
 Select one (3 hours) ART 202, DR 242 or MU 233  
 Select two literature (6 hours) EH 201, 202, or EH 203, 204, or EH 219, 220, or EH 231, 232

EH 141				

**III. Natural Sciences and Mathematics, 12 hrs**

Must take MS 125 (4 hours)  
 Must earn a grade of C or better in math courses  
 Select two science/lab courses (8 hours) CY 105, 107; CY 106, 108;  
 PHS 201, 203; PHS 202, 204

MS 125				

**IV. History, Social, and Behavioral Sciences, 12 hrs.**

EC 221, Introduction to Microeconomics, is required  
 Select one (3 hours) EC 222 (recommended), GY 120, PSC 100, PSY 201, SY 221  
 Select two history: (6 hrs) HY 101, 102 or HY 201, 202

EC 221				

**Major Requirements: 63 hours**

**Core, 27 hours**

	H/A	H/E	Grade	QP
EH 322 or CBA 350				
AE 201 or CS 201				
AE 210				
AE 211				
AE 343 or MGT 301				
AE 344				
AE 372				
AE 380				
AE 493				
AE 494				

**AME Major, 12 hours**

AE 251				
AE 361				
AE 366				
AE 440				

**Choose a concentration (24 hours) in Design & Automation or in Manufacturing Management. See reverse.**

**DEGREE SUMMARY:**

<b>University Requirements</b>	<b>42 hours</b>
<b>Major Requirements</b>	<b>63 hours</b>
Core 27	
AME 12	
Concentration 24	
<b>General Electives<sup>1</sup></b>	<b>15 hours</b>
<b>Total</b>	<b>120 hours</b>

<sup>1</sup>General electives are courses not used toward completing the university, major, or core requirements, and which students take to complete the graduation requirement of 120 credit hours.

**Concentration: Design & Automation, 24 hours**

	H/A	H/E	GR	QP
EG 255				
AE 252				
AE 355				
AE 365				
AE 416				
AE 451				
AE 460				
D & A Elective				

**OR**

**Concentration: Manufacturing Management, 24 hours**

	H/A	H/E	GR	QP
AE 307				
AE 330				
AE 341				
AE 342				
AE 441				
AE 442				
AE 484				
AE 485				

**General Electives<sup>1</sup>, 15 hours**

	H/A	H/E	GR	QP

**Major Course Titles:**

EG 255 Engineering Computation	(3)
EH 322 Technical Writing or CBA 350 Business Communications	(3)
AE 201 Microcomputers	(3)
AE 210 Machining/Manufacturing Processes	(3)
AE 211 AC/DC Circuits	(3)
AE 251 Computer-Aided Design	(3)
AE 252 Programmable Controllers	(3)
AE 307 Industrial Training	(3)
AE 330 Production & Inventory Control	(3)
AE 341 Motion & Time Study	(3)
AE 342 Employer-Employee Relations	(3)
AE 343 Managing Engineering Technology	(3)
AE 344 Manufacturing Cost Analysis	(3)
AE 355 Solid Modeling	(3)
AE 361 Materials & Processes of Industry	(3)
AE 365 Strength of Industrial Materials	(3)
AE 366 Control Systems	(3)
AE 372 Statistical Analysis for Quality Control	(3)
AE 380 Industrial Safety and Health	(3)
AE 416 Manufacturing Automation & Robotics	(3)
AE 440 Manufacturing Management Systems	(3)
AE 441 Project Management	(3)
AE 442 Facilities Planning	(3)
AE 451 Advanced Programmable Controllers	(3)
AE 460 Computer-Aided Manufacturing	(3)
AE 484 Industrial Ergonomics	(3)
AE 485 Industrial Safety Management	(3)
AE 493 Senior Seminar	(1)
AE 494 Industrial Internship	(2)