

Fall 1 <sup>st</sup> Year	CR	GR	Fulfilled by	Spring 1 <sup>st</sup> Year	CR	GR	Fulfilled by
Materials and Processes Selective	3			TECH 12000 - Design Thinking in Technology	3		
MA 16010 Applied Calculus I (Prereq: ALEKS score of 75)	3			MA 16020 Applied Calculus II (Prereq: MA 16010 with a grade of C- or better)	3		
ENGT 18000 ENG Tech Foundations (Pre-req: ALEKS 60, SAT 570, ACT 24, or MA 15300 or higher)	3			MET 11100 Applied Statics (Prereqs: ENGT 18000)	3		
ENGT 18100 ENG Tech Applications (pre or concurrent with ENGT 18000)	1			ECET 17900 Intro to Digital Systems (Prereq: (ENGT 18000/18100 or ECET 22400) & (CNIT 10500))	3		
CNIT 10500 Intro to C Programming	3			Freshman Speech Selective*	3		
Freshman Composition Selective*	3						
<b>TOTAL CREDIT HOURS</b>	<b>16</b>			<b>TOTAL CREDIT HOURS</b>	<b>15</b>		

Fall 2 <sup>nd</sup> Year	CR	GR	Fulfilled by	Spring 2 <sup>nd</sup> Year	CR	GR	Fulfilled by
ECET 22400 Electronic Systems (Prereq: MA 16010)	3			MET 10200 Production Specifications (Prereqs: CGT Selective and ENGT 18000)	3		
Humanities Foundation Selective* +	3			MET 28400 Intro to Industrial Controls (Prereq: ECET 22400)	3		
MET 11300 Mechanics Applications (Prereq: MET 11100)	1			MET 24500 Manufacturing Systems (Prereqs: (MET 14300 or MET 14400) and Cpt graphics sel)	3		
ECET 27900 Embedded Digital Systems (Prereq: ECET 17900)	3			Behavioral/Social Science Foundation Elective*	3		
Computer Graphics Selective	2			Physics Selective*	4		
CHM 11100 General Chemistry*	3						
<b>TOTAL CREDIT HOURS</b>	<b>15</b>			<b>TOTAL CREDIT HOURS</b>	<b>16</b>		

Fall 3 <sup>rd</sup> Year	CR	GR	Fulfilled by	Spring 3 <sup>rd</sup> Year	CR	GR	Fulfilled by
MET 23000 Fluid Power (Prereqs: (MET 11100 or PHYS 22000) and MA 16010)	3			MFET 37400 Mfg Integration I (Prereq: MET 28400)	3		
MFET 34400 Automated Mfg Processes (Prereq: MET 24500)	3			ECET 38001 Global Professional Issues in Engineering Technology	3		
Technical Writing Selective +	3			ECET 33700 Analog Signal Processing (Prereq: ECET 22400 + MA 16020)	3		
ECET 32700 Instrument & DAQ Design (Prereqs: ECET 22400, MA 16010, PHYS Sel.)	3			Manufacturing Selective	3		
Science Selective*	3			Statistics or Quality Selective	3		
<b>TOTAL CREDIT HOURS</b>	<b>15</b>			<b>TOTAL CREDIT HOURS</b>	<b>15</b>		

Fall 4 <sup>th</sup> Year	CR	GR	Fulfilled by	Spring 4 <sup>th</sup> Year	CR	GR	Fulfilled by
Capstone Selective I	3			Capstone Selective II (Prereq: Capstone Selective I)	3		
Communications Selective +	3			MET 38200 Controls/Instr for Automation (Prereq: MET 28400)	3		
Controls Selective	3			Humanities/Social Science Elective	3		
Mechatronics Selective	3			Free Elective	3		
IET 33400 Economic Analysis for Technology Systems	3			Free Elective	1		
<b>TOTAL CREDIT HOURS</b>	<b>15</b>			<b>TOTAL CREDIT HOURS</b>	<b>13</b>		

\*Fulfills University core.

- 120 semester credits and a 2.0 Graduation GPA are required for the Bachelor of Science degree.
- Students must earn a "D-" or better in all courses.
- Courses at Purdue University may only be attempted a maximum of three (3) times, including W, WF, I, IF and all graded attempts.
- 32 credit hours of 300-level or higher courses must be completed at Purdue University.
- Complete a Professional Requirement.  Complete an Intercultural Requirement.

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**The student is ultimately responsible for knowing and completing all degree requirements.  
myPurduePlan is knowledge source for specific requirements and completion.**

\*\*\*\*\* Updated 6/20/2020

**Polytechnic Anderson**  
**2020-2021 MECHATRONICS ENGINEERING TECHNOLOGY SUPPLEMENTAL INFORMATION**  
**All prerequisites must be met.**

**FRESHMAN COMPOSITION SELECTIVE+**

**ENGL 10600 First-Year Composition**

ENGL 10800 Accelerated First-Year Composition

**SCLA 10100 Transformative Text, Critical Thinking and Communication I: Antiquity to Modernity**

**FRESHMAN SPEECH SELECTIVE+**

**COM 11400 Fundamentals Of Speech Communication**

**SCLA 10200 Transformative Texts, Critical Thinking And Communication II: Modern World**

**COMMUNICATIONS SELECTIVE+**

COM 31500 Speech Communication Of Technical Information

**COM 32000 Small Group Communication**

COM 41500 Discussion Of Technical Problems

EDPS 31500 Collaborative Leadership: Interpersonal Skills

**MATERIALS & PROCESSES SELECTIVE**

**MET 14300 Materials & Processes I**

**MET 14400 Materials & Processes II**

**TECHNICAL WRITING SELECTIVE+**

**ENGL 42100 Technical Writing**

ENGL 42400 Writing For High Technology Industries

**COMPUTER GRAPHICS SELECTIVE**

**CGT 11000 Technical Graphics Communications**

CGT 16300 Graphical Communication and Spatial Analysis

ENGT 10500 Intro to Engineering Design

**STATISTICS OR QUALITY SELECTIVE**

**STAT 30100 Elementary Statistical Methods**

IET 31600 Statistical Quality Control

**PHYSICS SELECTIVE**

**PHYS 22000 General Physics**

PHYS 17200 Modern Mechanics

**SCIENCE SELECTIVE**

BIOL 11000 Fundamentals of Biology I

BIOL 20300 Human Anatomy and Physiology

CHM 11200 General Chemistry II

CHM 11600 General Chemistry

**PHYS 22100 General Physics**

PHYS 24100 Electricity and Optics

**Mechatronics Selective**

MET 43200 Hydraulic Motion Control Systems

MET 43600 Pneumatic Motion Control Systems

**MET 48200 Mechatronics**

MET 58100 Workshop In Mechanical Engineering Technology

MFET 29200 Projects In Automation, Robotics And Mechatronics

**MFET 34800 Advanced Industrial Robotics**

MFET 39200 Advanced Projects In Automation, Robotics, And Mechatronics

MET 43600 Pneumatic Motion Control Systems

**MET 48200 Mechatronics**

MFET 29200 Projects in Automation, Robotics, and Mechatronics

MFET 39200 Advanced Projects In Automation, Robotics, and Mechatronics

**CONTROLS SELECTIVE**

ECET 27400 Wireless Communications

ECET 35901 Computer Based Data Acquisition Applications

ECET 36900 Applied Computer Vision Sensing & Automation

MET 33400 Advanced Fluid Power

**MET 38200 Controls and Instrumentation for Automation**

MET 43200 Hydraulic Motion Control Systems

**MANUFACTURING SELECTIVE**

AT 27200 Introduction To Composite Technology

AT 30802 Aircraft Materials Processes

AT 47200 Advanced Composite Technology

CGT 32600 Graphics Standards For Product Definition

CGT 42300 Product Data Management

CGT 42600 Industry Applications Of Simulation And Visualization

ECET 27000 Electronics Prototype Development/Construction

ECET 27400 Wireless Communications

ECET 36900 Applied Computer Vision Sensing & Automation

MET 30200 CAD In The Enterprise

MET 33400 Advanced Fluid Power  
MET 34600 Advanced Materials In Manufacturing  
MET 34900 (Stringed Instrument Design and Manufacture  
MET 43200 Hydraulic Motion Control Systems  
MET 43600 Pneumatic Motion Control Systems  
MET 45100 Manufacturing Quality Systems  
**MFET 24800 Introduction to Robotics**  
MFET 29200 Projects in Automation, Robotics, and Mechatronics  
MFET 34800 Industrial Robotics and Motion Control

**CAPSTONE SELECTIVE I**

ENGT 48000 ET Capstone I  
**ECET 43000 Electrical and Electronic Product and Program Management**  
ECET 43100 International Capstone Project Planning and Design

**CAPSTONE SELECTIVE II**

ENGT 48100 ET Capstone II  
**ECET 46000 Project Design and Development**  
ECET 46100 International Capstone Project Execution  
ENGT 40600 Entrepreneurial Capstone II  
**MET 40200 Capstone Project II**

MFET 39200 Advanced Projects In Automation, Robotics, and Mechatronics  
MFET 49900 (Technology, Innovation and Culture in Bavaria (Study Abroad)  
MGMT 45500 Legal Background For Business I  
OLS 28400 Leadership Principles  
**IET 33620 Total Productive Maintenance**  
**IET 44275 Global Transportation and Logistics Management**

ENGT 40500 Entrepreneurial Capstone I  
**MET 40100 Capstone Projects I**  
**MFET 48000 Project Planning For Integration**  
ENGT 40500 Entrepreneurial Capstone I

**MFET 48100 Integration of Manufacturing Systems**  
ENGT 40600 Entrepreneurial Capstone II

**HUMANITIES FOUNDATION SELECTIVE:** see <http://www.purdue.edu/provost/initiatives/curriculum/course.html>

**BEHAVIORAL/SOCIAL SCIENCE FOUNDATION SELECTIVE:** see <http://www.purdue.edu/provost/initiatives/curriculum/course.html>

**HUMANITIES/SOCIAL SCIENCE ELECTIVE:** any 2xxxx course or higher in PSY, SOC, HIST, ECON, POL, ENGL Lit, PHIL, REL, ANTH, a foreign language, AD 22600, AD 22700, AD 25100, AD 25500, AD 30701, AD 31100, AD 31200, MUS 25000, MUS 37400, MUS 37600, MUS 37800, MUS 38100, MUS 38200

**FREE ELECTIVE:** Any non-remedial course

+ denotes optional course for Cornerstone Certificate.