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<td>COM 11400 Fund of Speech Communication*</td>
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<td>MET 11300 Mechanics Applications (Prereq: MET 11100)</td>
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<td>MET 28400 Intro to Industrial Controls (Prereq: ECET 22400)</td>
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<td>ENG 42100 Technical Writing (Prereq: ENG 10600)</td>
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*Fulfills University core.
1. 120 semester credits and a 2.0 Graduation GPA are required for the Bachelor of Science degree.
2. Students must earn a "D-" or better in all courses.
3. Courses at Purdue University may only be attempted a maximum of three (3) times, including W, WF, I, IF and all graded attempts.
4. 32 credit hours of 300-level or higher courses must be completed at Purdue University.
5. Complete a Professional Requirement. 
   Complete an Intercultural Requirement. 

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

For Catalog Terms beginning in Fall 2019

Major Code: MHET
Program Code: PIMFET-BS

Accredited by the Engineering Technology Accreditation Commission of ABET, http://www.abet.org

Updated 4/5/2019
KOKOMO 2019-2020 MECHATRONICS ENGINEERING TECHNOLOGY SUPPLEMENTAL INFORMATION
All prerequisites must be met.
Bold indicates courses offered at the Kokomo Campus.
See Student Services Coordinator for course availability.

FRESHMAN COMPOSITION SELECTIVE+
ENGL 10600 First-Year Composition
ENGL 10800 Accelerated First-Year Composition

FRESHMAN SPEECH SELECTIVE+
COM 11400 Fundamentals Of Speech Communication
SCLA 10200 Transformative Texts, Critical Thinking And Communication II: Modern World

MATERIAL AND PROCESSES SELECTIVE
MET 14300 Materials and Processes I
MET 14400 Materials and Processes II

COMPUTER GRAPHICS SELECTIVE
CGT 11000 Technical Graphics Communications
CGT 16300 Graphical Communication and Spatial Analysis
IT 10500 Intro to Engineering Design

COMMUNICATION SELECTIVE+
COM 31500 Speech Communication Of Technical Information
COM 32000 Small Group Communication
COM 41500 Discussion Of Technical Problems

TECHNICAL WRITING SELECTIVE+
ENGL 42100 Technical Writing
ENGL 42400 Writing For High Technology Industries

STATISTICS OR QUALITY SELECTIVE
STAT 30100 Elementary Statistical Methods
IT 34200 Introduction To Statistical Quality

TECHNICAL WRITING SELECTIVE+
EDPS 31500 Collaborative Leadership: Interpersonal Skills
SPCH-S223
SPCH-S229

TECHNICAL WRITING SELECTIVE+
ENGL-W321

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 21900 General Physics II

MECHATRONICS SELECTIVE
MET 43200 Hydraulic Motion Control Systems
MET 43600 Pneumatic Motion Control Systems
MET 48200 Mechatronics
MET 58100 Design for Mechatronics

MFET 29200 Projects In Automation, Robotics And Mechatronics
MFET 34800 Advanced Industrial Robotics
MFET 39200 Advanced Projects In Automation, Robotics, And Mechatronics
**CONTROLS SELECTIVE**

**ECET 27400 Wireless Communications**
ECET 35901 Computer Based Data Acquisition Applications
ECET 49900 Appl Comp Vision Sensng & Auto
**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 27400 Wireless Communication**
ECET 49900 Appl Comp Vision Sensng & Automation
IT 38100 Total Productive Maintenance
IT 434000 Global Transportation And Logistics Management
IT 44200 Production Planning
IT 48300 Facility Design For Lean Manufacturing
MET 30200 CAD In The Enterprise
**MET 33400 Advanced Fluid Power**
**MET 34600 Advanced Materials In Manufacturing**

**CAPSTONE SELECTIVES I**

ECET 43000 Electrical And Electronic Product And Program Management
ECET 43100 International Capstone Project Planning And Design
ENGT 40500 Entrepreneurial Capstone I
**MET 40100 Capstone Projects I**
MFET 48000 Project Planning For Integration

**CAPSTONE SELECTIVES II**

ECET 46000 Project Design And Development
ECET 46100 International Capstone Project Execution
ENGT 40600 Entrepreneurial Capstone II
**MET 40200 Capstone Projects II**
MFET 48100 Integration Of Manufacturing Systems

**HUMANITIES FOUNDATION SELECTIVE**: see [http://www.purdue.edu/provost/initiatives/curriculum/course.html](http://www.purdue.edu/provost/initiatives/curriculum/course.html)

**HIST-H105, HIIST-H106, HIST-H113, HIST-H114, PHIL-P100, PHIL-P140, FINA-A101, FINA-A102, MUS-M174, SPAN-S100-400, FREN-F100-400, GER-G100-400**

**BEHAVIORAL/SOCIAL SCIENCE FOUNDATION SELECTIVE**: see [http://www.purdue.edu/provost/initiatives/curriculum/course.html](http://www.purdue.edu/provost/initiatives/curriculum/course.html)

**ANTH-A104, ECON-E201, ECON-E202, POLS-Y103, PSY-P103, SOC-S100**

**HUMANITIES/SOCIAL SCIENCE ELECTIVE**: any 2xxx course or higher in PSY, SOC, HIS, ECON, POL, English Literature, PHIL, REL, ANTH, or a foreign language
AD 22600, AD 22700, AD 25100, AD 25500, AD 30701, AD 31100, AD 31200, MUS 25000, MUS 35500, MUS 37400, MUS 37600, MUS 37800, MUS 38100, MUS 38200

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

+ denotes optional course for Cornerstone Certificate.
### INTERCULTURAL REQUIREMENT

Step 1: Complete the Pre-test Intercultural Development Inventory Assessments (1st year)

Step 2: Complete one (1) of the following global experiences:*

- Participate in a Purdue University international capstone, collaborative project, or
- Participate in an international internship (international location), or
- Participate in a full semester abroad program, or

Complete 3 credit hours from the Polytechnic list of recommended Global/Cultural courses.

Step 3: Complete the Post-test Intercultural Development Inventory Assessments (4th year)

### NOTE FOR TRANSFER/CODO STUDENTS: Transfer and CODO students with less than 75 credit hours remaining to completed their Polytechnic Plan of Study are exempt from Step 1 (taking the IDI Pre-test).

*Global experiences must take place during the time of enrollment in Polytechnic to complete Step 2. Experiences taken place prior to a student’s initial enrollment will not serve to complete Step 2. Intercultural competencies gained on experiences prior to Polytechnic enrollment will be captured as baseline data on a student’s IDI.*

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<td>Automatic</td>
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<tr>
<td>Automatic</td>
<td>MET 29900 Internship for Credit</td>
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<tr>
<td>Automatic</td>
<td>EPICS courses, minimum of two</td>
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<tr>
<td>Advisor</td>
<td>Any approved internship (assuming student and/or employer provide documentation)</td>
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<tr>
<td>Advisor</td>
<td>Military service (ROTC completion, reservist, active duty, veteran)</td>
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<tr>
<td>Faculty</td>
<td>Supervised undergraduate research experiences or laboratory assistantships (e.g., employed in the AEL as lab technician)</td>
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<tr>
<td>Faculty</td>
<td>Independent study – by petition to ensure the project meets the spirit of the requirement</td>
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<tr>
<td>Faculty</td>
<td>Professional society/club activities (e.g., led the Solar Racing team) - by petition</td>
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<td>Faculty</td>
<td>Any approved employment or industry project</td>
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* Approval Key:
  - Automatic – student participation in this professional experience is already documented through existing means.
  - Advisor – advisor reviews student’s experience to determine if it meets the spirit of the Professional Experience requirement.
  - Faculty – designated committee reviews student’s experience to determine if it meets the spirit of the Professional Experience requirement.

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**AAST 27100** Intro to African American Studies  
**AAS 37300** Variable Title: History of Injustice  
**AGR 20100** Communication Across Cultures  
**ANSC 38100** Leadership for a Diverse Workplace  
**ANTH 20300** Biological Bases of Human Social Behavior  
**ANTH 20500** Human Cultural Diversity  
**ANTH 21000** Technology and Culture  
**ANTH 21200** Culture, Food and Health  
**ANTH 23000** Gender Across Cultures  
**ANTH 34000** Global Perspectives on Health  
**ANTH 34100** Culture and Personality  
**ANTH 37900** Native American Cultures  
**ARAB 28000** Arabic culture  
**ASAM 24000** Intro to Asian American Studies  
**AT 23300** Ethics and Aviation  
**COM 22400** Communicating in the Global Workplace  
**COM 30300** Intercultural Communication  
**COM 32000** Small Group Communication  
**COM 37300** Self-Presentation & Social Image  
**COM 38000** Sociolinguistic Study of African American English  
**COM 38000** Sociolinguistic Study of African American English  
**COM 41200** Theories of Human Interaction  
**COM 42300** Leadership, Communication & Organizations  
**ECET 29000** International Experience  
**ECET 38000** Global Professional Issues in ET  
**EDPS 23500** Learning & Motivation  
**EDPS 30000** Student Leadership Development  
**EDPS 30100** Peer Counselling Training  
**EDPS 31500** Collaborative Leadership: Listening  
**EDPS 31600** Collaborative Leadership: Cross-cultural Settings  
**EDPS 31700** Collaborative Leadership: Mentoring  
**ENGL 41400** Literature & Culture  
**HDFS 23300** Stress and Human Health  
**HDFS 28000** Diversity in Individual and Family Life  
**HDFS 33200** Stress & Coping in Contemporary Families  
**HEBR 38500** The Holocaust in Modern Hebrew Literature  
**HIST 19500** Historical Research & Film!  
**HIST 30000** Eve of Destruction: Global Crises and World Organization in the 20th Century  
**HIST 33805** History of Human Rights  
**HIST 35000** Science and Society in the 20th-Century World  
**HIST 36600** Hispanic Heritage of the USA  
**HIST 37700** History & Culture of Native America  
**HIST 46900** Black Civil Rights Movement  
**HIST 47900** American Representations of Middle East & North Africa  
**HST 49900** History of Sexual Regulation in the United States  
**HTM 37000** Sustainable Tourism and Responsible Travel  
**HTM 37200** Global Tourism Geography  
**MSL 20100** Individual Leadership Studies  
**OLS 35000** Creativity In Business & Industry  
**PHIL 11400** Global Moral Issues  
**PHIL 43500** Philosophy of Mind  
**POL 22200** Women, Politics & Public Policy  
**POL 23500** Rich and Poor Nations  
**POL 32600** Black Political Participation in America  
**POL 32700** Global Green Politics  
**POL 36000** Women and the Law  
**POL 41300** The Human Basis of Politics  
**POL 42300** International Environmental Policy  
**POL 42900** Variable Title: It’s a Complex World (Cross listed with IE4900, ME29700)  
**POL 43300** International Organization  
**PSY 25000** Psychology of Adjustment  
**PSY 25100** Health Psychology  
**PSY 28500** Consumer Behavior  
**PSY 32200** Research Design  
**SOC 10000** Intro to Sociology  
**SOC 31000** Racial and Ethnic Diversity  
**SOC 33900** Introduction to Sociology of Developing Nations  
**TECH 33000** Technology and the Global Society  
**WGG 28200** Intro to LGBT Studies  
**WGG 38000** Gender and Multiculturalism  
**WGG 38300** Women and Work  
**Any foreign language 200 or higher (201, 202, 301, 302, 401, 402)**  
**PSY-P103** General Psychology  
**SCH-P110** Introduction to Sociology  
**SCH-P229** Discussion and Group Methods  
**SCH-P223** Business and Professional Communication  
**CINT 32000** Policy, Regulation, and Globalization in Information Technology  
**TIL 11200** Foundations of Tech. Leadership