**Mechanical Engineering Technology**

**Purdue Polytechnic Institute** PIMET-AS

METC

60-cr for graduation

“D-“ or better required in all major courses

**Departmental/Program Major Courses (60 credits)**

**Required Major Courses (22 credits)**

|  |  |  |
| --- | --- | --- |
|  | (3) | MET 11100 – Applied Statics |
|  | (3) | Materials and Processes Selective |
|  | (3) | MET 23000 -- Fluid Power |
|  | (3) | MET 24500 – Manufacturing Systems |
|  | (3) | MET 28400 – Introduction to Industrial Controls |
|  | (3) | MET Selective |
|  | (3) | ENGT 18000—Engineering Technology Foundations |
|  | (1) | ENGT 18100—Engineering Technology Applications |

**Other Departmental/Program Course Requirements (36 credits)**

|  |  |  |
| --- | --- | --- |
|  | (3) | COM 11400 -Fundamentals of Speech Communication *(satisfies Oral Communication for core)* |
|  | (3) | MA 16010 - Applied Calculus I *(satisfies Quantitative Reasoning for core)* |
|  | (3) | ECET 22400 – Electronic Systems |
|  | (3) | CHM 11100 – General Chemistry |
|  | (4) | PHYS 22000 -General Physics *(satisfies Science for core)* |
|  | (3) | STAT 30100 – Statistical Methods |
|  | (3) | TECH 12000 -Design Thinking in Technology *(satisfies Information Literacy* and *Science, Technology & Society for core)* |
|  | (3) | English Composition Selective (choose from ENGL 10600 or ENGL 10800) *(satisfies Written Communication for core)* |
|  | (3) | ECON 21000—Principles of Economics |
|  | (3) | General Education Human Cultures: Humanities Selective *(satisfies Human Cultures Humanities for core)* |
|  | (3) | General Education Human Cultures: Behavior/Social Sciences *satisfies Human Cultures: Behavioral Sciences for core)* |
|  | (2) | Computer Graphics Technology Selective (choose from CGT 11000, CGT 16300, IT 10500) |
| **Free Electives (2 credits)** | | |
|  | (2) | Free Elective |

**University Core Requirements**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Human Cultures: Behavioral/Social Sciences* |  | *€* |  |  | *Science* |  | *€* |  |
| *Human Cultures: Humanities* |  | *€* |  |  | *Science* |  | *€* |  |
| *Information Literacy* |  | *€* |  |  | *Science, Technology & Society* |  | *€* |  |
| *Oral Communication* |  | *€* |  |  | *Written Communication* |  | *€* |  |
| *Quantitative Reasoning* |  | *€* |  |  |  |  |  |  |

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**The student is ultimately responsible for knowing and completing all degree requirements.**

**myPurduPlan is the knowledge source for specific requirements and completion.**

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School of Engineering Technology Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Major: Mechanical Engineering Technology (MET)

MET-AS Suggested Arrangement of Courses Catalog Term: \_\_\_\_\_ PUID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

For Catalog Terms beginning in Fall 2018

Major Code: METC Program Code: PIMET-AS

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

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Fall 1st Year** | CR | GR | Sem | Fulfilled by | **Spring 1st Year** | CR | GR | Sem | Fulfilled by |
| MA 16010 Applied Calculus I  (Prereq: ALEKS score 75) | 3 |  |  |  | Humanities Foundational Selective | 3 |  |  |  |
| CGT Selective (CGT 11000, CGT 16300, or IT 10500) | 2 |  |  |  | MET 11100 Applied Statics  (Prereqs: ENGT 18000) | 3 |  |  |  |
| Materials and Processes Selective | 3 |  |  |  | PHYS 22000 General Physics I | 4 |  |  |  |
| ENGT 18000 ENG Tech Foundations | 3 |  |  |  | English Composition Selective | 3 |  |  |  |
| ENGT 18100 ENG Tech Applications | 1 |  |  |  | Behavioral Social Science Foundational Selective | 3 |  |  |  |
| TECH 12000 Design Thinking in Tech.\* | 3 |  |  |  |
| **Total Credit Hours** | **15** |  |  |  | **Total Credit Hours** | **16** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Fall 2nd Year** | CR | GR | Sem | Fulfilled by | **Spring 2nd Year** | CR | GR | Sem | Fulfilled by |
| ECET 22400 Electronic Systems  (Pre-req: MA 16010) | 3 |  |  |  | MET 23000 Fluid Power  (Pre-reqs: MET 11100 and MA 16010) | 3 |  |  |  |
| MET 24500 Manufacturing Systems  (Pre-reqs: (MET 14300 or MET 14400) and CGT Selective) | 3 |  |  |  | MET 28400 Intro to Industrial Controls  (Pre-req: ECET 22400) | 3 |  |  |  |
| CHM 11100 General Chemistry | 3 |  |  |  | MET Selective | 3 |  |  |  |
| STAT 30100 Elementary Stat Methods | 3 |  |  |  | COM 11400 Fundamental of Speech Communication\* | 3 |  |  |  |
| ECON 21000 Principles of Economics | 3 |  |  |  | Free Elective | 2 |  |  |  |
| **Total Credit Hours** | **15** |  |  |  | **Total Credit Hours** | **14** |  |  |  |

Refer to the 2018 MET supplemental Instruction form for options for selectives and pre-requisites.

1. 60 semester credits and a 2.0 Graduation GPA are required for the Associate of Science degree.
2. Students must earn a "D-" or better in all courses unless otherwise noted.
3. Courses at Purdue University may only be attempted a maximum of three (3) times, including W, WF, I, IF and all graded attempts.

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**2018 MET SUPPLEMENTAL INFORMATION**

**All prerequisites must be met.**

**CGT SELCTIVE**

**CGT 11000 Technical Graphics Communications**

CGT 16300 Graphical Communication and Spatial Analysis

IT 10500 Intro to Engineering Design

**ENGLISH COMPOSITION**

ENGL 10600

**ENG-W131**

**MATERIALS & PROCESSES SELECTIVE**

**MET 14300 Materials and Processes I**

**MET 14400 Materials and Processes II**

**MET SELECTIVE (6 credit hours)**

**MET 10200 Production Specifications**

**MET 14300 Materials and Processes I**

**MET 14400 Materials and Processes II**

**MET 21100 Strength of Materials**

**MET 21300 Dynamics**

**MET 22000 Heat Power**

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

**ENG-L204, 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 FOUNDATIONAL SELECTIVE**: see <http://www.purdue.edu/provost/initiatives/curriculum/course.html>

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