

- Minimum 15 of the last 30 credits earned at PennWest.
- Minimum of 18 major credits must be completed at PennWest or a State System (PASSHE) university.

## General Education

### Foundations: (12 Credits)

#### **Oral Communication: (3 Credits)**

- ☐ \_\_\_\_\_

#### **Quantitative Reasoning: (3 Credits)**

- ☐ MATH 1220 College Algebra

#### **Technological Literacy: (3 Credits)**

- ☐ CMSC 1380 Introduction to Programming with Python

#### **Written Communication: (3 Credits)**

- ☐ ENGL 1200 College Composition

### Discoveries: (10 Credits)

#### **Art/Humanities: (3 Credits)**

- ☐ PHIL 2100 Introduction to Ethics

#### **Natural Sciences & Technology: (4 Credits)**

- ☐ PHYS 1500 & PHYS 1510 General Physics I Lecture & Lab

#### **Social Sciences: (3 Credits)**

- ☐ ECON 2100 Principles of Microeconomics

### Elective/Wellness & Personal Health: (3 Credits)

- ☐ ENGT 1100 Introduction to Engineering Technology

### Competencies:

#### **Applied Methodologies:**

- ☐ MECH 3100 Principles of Automatic Control

#### **Ethical Reasoning:**

- ☐ PHIL 2100 Introduction to Ethics

#### **Information Literacy:**

- ☐ \_\_\_\_\_

#### **Writing Intensive:**

- ☐ MECH 3100 Principles of Automatic Control

## Program Requirements

### Required Major Courses: (32 Credits)

- ☐ ENGL 3230 Technical Writing
- ☐ ECET 1110 Electric Circuits I
- ☐ ECET 2160 Electric Circuits II
- ☐ MECH 2000 Manufacturing Processes
- ☐ MECH 3100 Principles of Automatic Control
- ☐ MECH 2400 Engineering Graphics & Computer Aided Design
- ☐ ROBO 1100 Agile Robotics I
- ☐ ROBO 1200 Agile Robotics II
- ☐ ROBO 2100 Robotic Teaming
- ☐ ROBO 2900 Robotics System Project

### Major Elective: (3 Credits) Select one (1) from the following:

- ☐ Any ITE Course
- ☐ ECET 2210 Linear Electronics I
- ☐ ECET 2215 Introduction to Instrumentation
- ☐ ECET 2535 Digital Electronics Design
- ☐ MATH 1230 Trigonometry
- ☐ MECH 3325 Fundamentals of Programmable Logic Controllers

## Suggested Two Year Course Sequence

### Year 1

#### Fall Semester

CMSC 1380 Introduction to Programming in Python  
ENGT 1100 Introduction to Engineering Technology  
ENGL 1200 College Composition  
ROBO 1100 Agile Robotics I

#### Spring Semester

ECET 1110 Electrical Circuits I  
ENGL 3230 Technical Writing  
MECH 2400 Engineering Graphics and Computer Aided Design  
ROBO 1200 Agile Robotics II  
Foundations: Oral Communication

### Year 2

#### Fall Semester

ECET 2160 Electric Circuits II  
MECH 2000 Manufacturing Processes  
PHYS 1500 General Physics I  
PHYS 1510 General Physics I Lab  
ROBO 2100 Robotics Training

#### Spring Semester

ECON 2100 Principles of Microeconomics  
MECH 3100 Principles of Automatic Control  
PHIL 2100 Introduction to Ethics  
ROBO 2900 Robotics Systems Project  
Program Elective

