PennWest UNIVERSITY

Degree: AS
College: College of Science, Technology & Business
Major: Engineering Technology
Major Code: ENGT
Concentration: Robotics Engineering Technology (RETE)

Credits Required: 60
Minor: N/A
Minor Code: N/A

General Education

Foundations: (12 Credits)

Oral Communication (3 Credits)

☐ _____

Written Communication (3 Credits)

☐ ENGL 1200 College Composition

Quantitative Reasoning (3 Credits)

☐ MATH 1220 College Algebra

Technological Literacy (3 Credits)

☐ CMSC 1380 Introduction to Programming in Python

Discoveries: (Credits 10)

Art/Humanities (3 Credits)

☐ PHIL 2100 Introduction to Ethics

Social Sciences (3 Credits)

☐ ECON 2100 Principles of Microeconomics

Natural Sciences & Technology (4 Credits)

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

Program Elective: (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 and Computer Aided Design
☐ ROBO 1100 Agile Robotics I
☐ ROBO 1200 Agile Robotics II
☐ ROBO 2100 Robotics Teaming
☐ ROBO 2900 Robotics System Project

Major Electives: (3 Credits)

Choose 1 from the list below

☐ MECH 2300 Fundamentals of Programmable Logic Controllers
☐ ECET 2535 Digital Electronics Design
☐ ECET 2210 Linear Electronics I
☐ ECET 2215 Introduction to Instrumentation
☐ MATH 1230 Trigonometry
☐ Any ITE course

Created 8/21/2023

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
MATH 1220 College Algebra
ROBO 1100 Agile Robotics I

Spring Semester

ECET 1110 Electric 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 Teaming

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

Created 8/21/2023