

Degree: AS **Credits Required: 60**

College: College of Science, Technology & Business

Major: Engineering Technology

Major Code: ENGT Minor: N/A Concentration: Robotics Engineering Technology (RETE)

General Education

Fo	oundations: (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
Di	scoveries: (Credits 10)
	Art/Humanities (3 Credits)
	☐ PHIL 2100 Introduction to Ethics
	Social Sciences (3 Credits)
	\square ECON 2100 Principles of Microeconomics
	Natural Sciences & Technology (4 Credits)
	\square PHYS 1500 & PHYS 1510 General Physics I Lecture and Lab
Pr	ogram Elective: (3 Credits)
	□ ENGT 1100 Introduction to Engineering Technology
	ENGT 1100 introduction to Engineering Technology
<u>Cc</u>	ompetencies:
	Applied Methodologies
	\square 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

Minor Code: N/A

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		
$\hfill \square$ MECH 2400 Engineering Graphics and Computer Aided Design		
☐ ROBO 1100 Agile Robotics I		
☐ ROBO 1200 Agile Robotics II		
\square ROBO 2100 Robotics Teaming		
\square 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		

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

