BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING TECHNOLOGY

2021-2022 Degree Requirements

TOTAL CREDITS FOR DEGREE: 131-132

Name: _____ **ID Number:** _____

UNIVERSITY CORE CURRICULUM: 42 cr.

Required Fundamental Courses

COMM 101	Oral Comm. & Pres.	3 credits	
ENGL 101	College Composition	3 credits	
UNIV 101	City-University Life	3 credits	
Senior Capstone	**ET 407**	3 credits	**(Professional Problems in Engineering Technology)**

Choose Thematic Core courses in the following:

Explore the World - Choice 1		3 credits	
Explore the World - Choice 2		3 credits	
Investigate Science	**CHEM 101**	3 credits	**(General Chemistry I)**
Investigate Mathematics	**MATH 180**	3 credits	**(College Algebra)**
Interpret Creative Works		3 credits	
Understand People - Choice 1		3 credits	
Understand People - Choice 2		3 credits	
Succeed in Business		3 credits	
Appreciate & Apply the Arts		3 credits	
Discover Technology	**EGR 101**	3 credits	

MAJOR REQUIREMENTS: 89-90 cr.

CHEM 102 General Chemistry II (3)
CHEM 103 General Chemistry Laboratory I (1)
CHEM 104 General Chemistry Laboratory II (1)
MATH 185 Trigonometry (2)
MATH 190 Calculus I (4)
MATH 210 Calculus II (3)
MATH 230 Linear Algebra (4)
MATH 310 Differential Equations (3)
MATH 300 Calculus III **OR**
MATH 330 Mathematical Statistics (3)
NSET 218 Technical Writing (3)
PHYS 101 Physics I (3)
PHYS 102 Physics II (3)
PHYS 103 Physics Laboratory I (1)
PHYS 104 Physics Laboratory II (1)
ET 204 Programming for Eng Tech (3)
ET 405 Fund. Of Engineering Exam I (0)
ET 406 Fund. Of Engineering Exam II (0)
ETGR 205 Eng Tech Graph (3)
ME 101 Statics (3)
ME 102 Dynamics (3)

EET 102 DC Circuits (3)
EET 103 AC Circuits (3)
EET 104 DC Circuits Lab (1)
EET 105 AC Circuits Lab (1)
EET 200 Basic Electronics (4)
EET 201 Electronic Circuits (4)
EET 215 Digital Electronics I (3)
EET 216 Microprocessors (3)
EET 327 Elec Power Tech I (3)
EET 328 Elec Power Tech II (3)

Technical Electives-Choose 14 cr.

EET 305 Communications Electronics (4)
EET 348 Control Systems I (4)
EET 401 Field Theory & Microwaves (4)
EET 415 Digital Electronics II (3)
EET 416 Microprocessors II (3)
EET 421 Electrical Power Systems (3)
EET 426 Commercial Elec Des (3)
EET 448 Control Systems II (4)
EET 495 Special Topics
EET 496 Special Topics

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PROGRAM OBJECTIVES

Upon successful completion of this program, a student will be able to:

1. Analyze and design electrical systems, components, and processes.
2. Test electrical systems, components, and processes, analyze the resulting data, and make iterative improvements.
3. Develop computer hardware and software to support the analysis, design, and operation of electrical systems, components, and processes.
4. Solve engineering problems by using standard formulas, graphs, tables, and software while recognizing the limitations of these techniques.
5. Solve engineering problems by applying principles of mathematics, science, and engineering.
6. Collaborate in laboratory and classroom settings to fulfill technical requirements in a timely manner.
7. Produce clear, precise, and effective technical documents and oral presentations.
8. Plan and manage technical projects.
9. Be prepared to grow professionally through independent learning, continuing education, and participation in technical societies.
10. Take the Fundamentals of Engineering examination as the first step toward professional licensure.
11. Be familiar with the laws and codes governing professional practice.
12. Understand their personal and professional roles in society.

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EE Course Number Key

The first digit represents the course's level:

1xx = freshman
2xx = sophomore
3xx = junior
4xx = senior

The second digit represents the course's curricular area:

x0x = networks
x1x = electromagnetics
x2x = electronic devices and circuits
x3x = power machines and systems
x4x = controls
x5x = digital electronics and systems
x6x = communications and signal processing
x7x through x9x = general topics

The third digit represents the course's position in a sequence:

xx5 through xx9 = stand-alone course that is not part of a sequence
xx1 = first course in a sequence
xx2 = second course in a sequence