

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING TECHNOLOGY

2016-2017 Degree Requirements

TOTAL CREDITS FOR DEGREE: 131-132

UNIVERSITY CORE CURRICULUM 42 credits

Required Courses:

COMM 101	Oral Comm. & Pres.	3 credits
* ENGL 101	College Composition	3 credits
UNIV 101	City-University Life	3 credits
	Senior Capstone	3 credits

Choose thematic core courses in the following:

Explore the World - Choice 1	3 credits
Explore the World - Choice 2	3 credits
Investigate Science	3 credits
Investigate Mathematics	3 credits
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	3 credits

*One Writing Intensive course in addition to ENGL 101 is required for graduation.

MAJOR REQUIREMENTS:

89-90 credits

(C = taken in the Core)

ENGL 218	Technical Writing	3	MET 101	Statics	3
CHEM 101	General Chem. I (Investigate Science)	C	MET 102	Dynamics	3
CHEM 102	General Chemistry II	3	EET 102	DC Circuits	3
CHEM 103	General Chemistry Lab I	1	EET 103	AC Circuits	3
CHEM 104	General Chemistry Lab II	1	EET 104	DC Circuits Lab	1
MATH 185	Trigonometry	2	EET 105	AC Circuits Lab	1
MATH 180	College Algebra (Investigate Math)	C	EET 200	Basic Electronics	4
MATH 190	Calculus I	4	EET 201	Electronic Circuits	4
MATH 210	Calculus II	4	EET 215	Digital Electronics I	3
MATH 230	Linear Algebra	3	EET 216	Microprocessors	3
MATH 310	Differential Equations	3	EET 327	Electrical Power Tech. I	3
MATH 300	Calculus III (4 cr.) OR	4	EET 328	Electrical Power Tech. II	3
MATH 330	Mathematical Statistics (3 cr.)	3	<i>Minimum of 14 credits from the following Tech. Electives:</i>		
NSET 101	Intro to NSET (Discover Technology)	C	EET 305	Communication Electronics	4
PHYS 101	Physics I	3	EET 348	Control Systems I	4
PHYS 102	Physics II	3	EET 401	Field Theory & Microwaves	4
PHYS 103	Physics Lab I	1	EET 415	Digital Electronics II	3
PHYS 104	Physics Lab II	1	EET 416	Microprocessors II	3
ET 204	Programming for Eng. Tech.	3	EET 421	Electrical Power Systems	3
ET 405	Fund. of Engr. Exam I	0	EET 426	Commercial Electrical Design	3
ET 406	Fund. of Engr. Exam II	0	EET 448	Control Systems II	4
ET 407	Prof. Prob. in Eng. Tech. (Senior Capstone)	C	EET 495	Spec. Topics in Elec. Engr. Tech. III	1-6
ETGR 205	Engineering Tech. Graphics	3	EET 496	Spec. Topics in Elec. Engr. Tech. III	1-6

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STUDENT LEARNING OUTCOMES

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

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