

## BACHELOR OF SCIENCE ELECTRICAL ENGINEERING TECHNOLOGY

2011-2012

Student's Name \_\_\_\_\_

Entrance Date \_\_\_\_\_

### CORE REQUIREMENTS 42

___	CHEM	101	General Chemistry I	3
___	CHEM	102	General Chemistry II	3
___	ENGL	150	English Composition I	3
___	ENGL	151	English Composition II	3
___	ENGL	218	Technical Writing	3
___	ENGL	250	World Literature I	<b>OR</b>
___	ENGL	251	World Literature II	3
___	COPA	250	Arts & Human Experience I	3
___	COPA	251	Arts & Human Experience II	<b>OR</b>
___	CINE	302	Cinema	3
___	HIST	150	Intro to Study of History	3
___	MATH	180	College Algebra	3
___	NSET	101	Intro Nat. Sci. & Eng. Tech.	3
___	POLS	250	Intro to Gov Systems	<b>OR</b>
___	POLS	102	American National Gov.	3
___	PSYC	150	Psychological Foundations	3
___	SOC	150	Sociological Foundations	<b>OR</b>
___	SOC	105	Marriage and the Family	<b>OR</b>
___	SOC	111	World Cultures	3

### DEPARTMENT GENERAL REQUIREMENTS 29-30

___	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	4
___	MATH	230	Linear Algebra I	3
___	MATH	310	Differential Equations	3
___	MATH	300	Calculus III (4 cr.)	<b>OR</b>
___	MATH	330	Mathematical Statistics (3 cr.)	3-4
___	PHYS	101	Physics I	3
___	PHYS	102	Physics II	3
___	PHYS	103	Physics Laboratory I	1
___	PHYS	104	Physics Laboratory II	1

### DEPARTMENT MAJOR REQUIREMENTS 60

___	ET	204	Programming for Eng. Tech.	3
___	ETGR	205	Engineering Tech. Graphics	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 I	3
___	EET	327	Electrical Power Tech. I	3
___	EET	328	Electrical Power Tech. II	3
___	ET	405	Fund. of Engr. Examination I	0
___	ET	406	Fund. of Engr. Examination II	0
___	ET	407	Prof. Prob. In Engineering Technology	3
___	MET	101	Statics	3
___	MET	102	Dynamics	3
___	MET	212	Properties of Materials	3

### TECHNICAL ELECTIVES 14

___	EET	305	Communication 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 Electrical Design	3
___	EET	448	Control Systems II	4
___	EET	495	Spec. Topics in Elec. Engr. Tech. III	1-6
___	EET	496	Indepen. Study in Elec. Engr. Tech. III	1-6

### GENERAL ELECTIVES 5-6

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\_\_\_\_\_ 2-3  
\_\_\_\_\_ 3

# Program Objectives

## B.S. in Electrical Engineering Technology

### Upon successful completion of this program:

1. Students will analyze and design electrical circuits and systems.
2. Students will test electrical circuits and systems, analyze the resulting data, and make iterative improvements.
3. Students will develop computer hardware and software to perform data acquisition, control, and analysis.
4. Students will solve problems using standard formulas, graphs, tables, and software while recognizing the limitations of these techniques.
5. Students will use algebra, trigonometry, and calculus to formulate and solve practical problems.
6. Students will apply fundamental principles of physics, chemistry, and materials science to solve practical problems.
7. Students will collaborate in laboratory and classroom settings to fulfill technical requirements in a timely manner.
8. Students will produce clear, precise, and effective technical documents and oral presentations.
9. Students will plan and manage technical projects.
10. Students will be prepared to grow professionally through independent learning, continuing education, and participation in technical societies.
11. Students will understand the benefits of registration as a professional engineer and will take the Fundamentals of Engineering examination.
12. Students will be familiar with the laws and codes governing professional practice.
13. Students will understand their personal and professional roles in society.