

BACHELOR OF SCIENCE CIVIL ENGINEERING TECHNOLOGY

2011-2012

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	OR
___	ENGL	251	World Literature II	3
___	COPA	250	Arts & Human Experience I	3
___	COPA	251	Arts & Human Experience II	OR
___	CINE	302	Cinema Authors	3
___	HIST	150	Intro Study of History	3
___	MATH	180	College Algebra	3
___	NSET	101	Intro Nat. Sci. & Eng. Tech	3
___	POLS	250	Intro to Gov Systems	OR
___	POLS	102	American National Gov.	3
___	PSYC	150	Psychological Foundations	3
___	SOC	150	Sociological Foundations	OR
___	SOC	105	Marriage and the Family	OR
___	SOC	111	World Cultures	3

DEPARTMENT GENERAL REQUIREMENTS

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___	CHEM	103	General Chemistry Lab. I	1
___	CHEM	104	General Chemistry Lab. II	1
___	PHYS	101	Physics I	3
___	PHYS	102	Physics II	3
___	PHYS	103	Physics Lab I	1
___	PHYS	104	Physics Lab II	1
___	MATH	175	Elementary Statistics	3
___	MATH	185	Trigonometry	2
___	MATH	190	Calculus I	4
___	MATH	210	Calculus II	4
___	MATH	230	Linear Algebra I	OR
___	MATH	310	Differential Equations	3

Student's Name: _____

Entrance Date: _____

DEPARTMENT MAJOR REQUIREMENTS

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___	CET	101	Statics	3
___	CET	205	Intro to Surveying	3
___	CET	206	Environ. Eng. Tech. I	3
___	CET	209	Engineering Geology	3
___	CET	212	Properties of Materials	3
___	CET	213	Strength of Materials	3
___	CET	214	Strength of Materials Lab.	1
___	CET	309	Soil Mechanics	4
___	CET	310	Structural Analysis	3
___	CET	315	Structural Design I	3
___	CET	316	Structural Design II	3
___	CET	317	Concrete Mix Design Lab	1
___	CET	321	Environ. Eng. Tech. II	3
___	CET	405	Software Tools for CET	2
___	CET	409	Foundations Design	3
___	CET	410	Highway/Bridge Design	3
___	CET	411	Fluid Mechanics	3
___	CET	412	Fluid Mechanics Lab	1
___	CET	418	Hydraulics	3
___	ETGR	205	Engineering Tech Graphics	3
___	MET	102	Dynamics	3
___	ET	204	Programming for Eng. Tech.	3
___	ET	405	Fund. of Engr. Examination I	0
___	ET	406	Fund. of Engr. Examination II	0
___	ET	407	Prof. Prob. In Engr. Tech.	3

GENERAL ELECTIVES

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Program Objectives

B.S. in Civil Engineering Technology

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

1. Analyze and design structures made of steel and reinforced concrete.
2. Analyze and design sanitary and storm sewer systems, freshwater supply systems, and landfills in conformance with applicable environmental laws, regulations, and standards.
3. Analyze and design highways and the concrete and asphalt mixes used to construct them.
4. Determine the structural properties of materials using a knowledge of soil mechanics, geology, and materials science.
5. Use modern surveying techniques to make accurate, properly-documented measurements of structures and terrain.
6. Apply standard formulas, graphs, and tables to solve problems throughout the curriculum and will understand the limitations of these standard methods.
7. Use computers, computer programming languages, and application-specific software to analyze and design systems and to acquire and process data.
8. Apply principles of physics, chemistry, and mathematics to the solution of practical problems in science and technology, including new and unfamiliar problems.
9. Work in teams to design and carry out experiments, measure and analyze data, conduct surveys, and design systems.
10. Use statistical, time value of money, and critical path techniques to manage projects.
11. Prepare clear, precise, and effective technical documents and oral presentations with the help of modern technology such as spreadsheets, word processors, and presentation software.
12. Be familiar with the major professional societies in their discipline and will understand the requirements and benefits of membership in these societies.
13. Understand the ethical implications of their work and will be familiar with the laws, codes, and specifications governing the professional conduct of those practicing civil engineering.
14. Have an appreciation for the arts, the humanities, and their own and other cultures.
15. Understand the positive and negative contributions of science and technology in the modern world.