BACHELOR OF SCIENCE IN CIVIL ENGINEERING TECHNOLOGY

2020-2021 Degree Requirements

		TOTAL CREE	130		
Name	•			_	ID Number:
<u> </u>	<u>UNIVE</u>	RSITY CORE CUF			
Requii	red Fu	ndamental Course			
COMN	/I 101	Oral Comm. & Pr	es.	3 credits	
ENGL:	101	College Composit	tion	3 credits	
UNIV 1	UNIV 101 City-University Li		fe	3 credits	
Senior	Senior Capstone		ET 407	3 credits	(Professional Problems in
Choos	e Ther	natic Core course:	Engineering Technology)		
Explor	Explore the World - Choice 1			3 credits	
Explor	Explore the World - Choice 2			3 credits	
Invest	Investigate Science			3 credits	(General Chemistry I)
Invest	Investigate Mathematics			4 credits	(Calculus I)
Interp	Interpret Creative Works			3 credits	
Under	Understand People - Choice 1			3 credits	
Under	Understand People - Choice 2			3 credits	
Succee	Succeed in Business			3 credits	
Appre	Appreciate & Apply the Arts			3 credits	
Discov	er Tec	hnology	NSET 101	3 credits	(Introduction to the Nat. Sciences
					and Engineering Technology)

MAJOR REQUIREMENTS: 87 cr.

CET 205 Intro to Surveying (3)	CHEM 102 Gen Chem II (3)
CET 206 Environ Eng Tech I (3)	CHEM 103 Gen Chem Lab I (1)
CET 209 Eng Geo (3)	CHEM 104 Gen Chem Lab II (1)
CET 213 Strength of Materials (3)	ET 405 Fund of Engr Exam I (0)
CET 214 Strength of Mt Lab (1)	ET 406 Fund of Engr Exam II (0)
CET 309 Soil Mechanics (3)	ETGR 205 Eng Tech Graphics (3)
CET 310 Structural Analysis (3)	MATH 181 Pre-Calc (4)
CET 315 Structural Design I (3)	MATH 210 Calculus II (4)
CET 316 Structural Design II (3)	MATH 230 Linear Algebra OR
CET 317 Concrete Mix Des Lab (1)	MATH 310 Differential Eq (3)
CET 319 Soil Mech Lab (1)	MATH 330 Mathematical Stats (3)
CET 321 Environ Eng Tech II (3)	ME 101 Statics (3)
CET 405 Software Tools CET (2)	ME 102 Dynamics (3)
CET 409 Foundations Des (3)	NSET 218 Tech Comm (3)
CET 410 Highway/Bridge Des (3)	PHYS 103 Physics Lab I (1)
CET 411 Fluid Mech (3)	PHYS 104 Physics Lab II (1)
CET 412 Fluid Mech Lab (1)	PHYS 201 Fund of Phys I (3)
CET 418 Hydraulics (3)	PHYS 202 Fund of Phys II (3)
	ME 212 Prop of Materials (3)

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STUDENT OUTCOMES

Upon successful completion of this program:

- 1)An ability to identify, formulate and solve complex engineering problems by applying principles of engineering, science and mathematics;
- 2) An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors:
- 3) An ability to communicate effectively with a range of audiences
- 4) An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgements, which must consider the impact of engineering solutions in global, economic, environmental and societal factors;
- 5) An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives;
- 6) An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgement to draw conclusions; and
- 7) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.