

# BACHELOR OF SCIENCE IN CIVIL ENGINEERING TECHNOLOGY

## *2021-2022 Degree Requirements*

**TOTAL CREDITS FOR DEGREE: 130**

**Name:** \_\_\_\_\_

**ID Number:** \_\_\_\_\_

**UNIVERSITY CORE CURRICULUM: 43 cr.**

***Required Fundamental Course:***

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

***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

Investigate Mathematics **MATH 190** 4 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 **EGR 101** 3 credits

**(Professional Problems in Engineering Technology)**

**(General Chemistry I)**

**(Calculus I)**

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**MAJOR REQUIREMENTS: 87 cr.**

CET 205 Intro to Surveying (3)

CET 206 Environ Eng Tech I (3)

CET 209 Eng Geo (3)

CET 213 Strength of Materials (3)

CET 214 Strength of Mt Lab (1)

CET 309 Soil Mechanics (3)

CET 310 Structural Analysis (3)

CET 315 Structural Design I (3)

CET 316 Structural Design II (3)

CET 317 Concrete Mix Des Lab (1)

CET 319 Soil Mech Lab (1)

CET 321 Environ Eng Tech II (3)

CET 405 Software Tools CET (2)

CET 409 Foundations Des (3)

CET 410 Highway/Bridge Des (3)

CET 411 Fluid Mech (3)

CET 412 Fluid Mech Lab (1)

CET 418 Hydraulics (3)

CHEM 102 Gen Chem II (3)

CHEM 103 Gen Chem Lab I (1)

CHEM 104 Gen Chem Lab II (1)

ET 405 Fund of Engr Exam I (0)

ET 406 Fund of Engr Exam II (0)

ETGR 205 Eng Tech Graphics (3)

MATH 181 Pre-Calc (4)

MATH 210 Calculus II (4)

MATH 230 Linear Algebra **OR**

MATH 310 Differential Eq (3)

MATH 330 Mathematical Stats (3)

ME 101 Statics (3)

ME 102 Dynamics (3)

NSET 218 Tech Comm (3)

PHYS 103 Physics Lab I (1)

PHYS 104 Physics Lab II (1)

PHYS 201 Fund of Phys I (3)

PHYS 202 Fund of Phys II (3)

ME 212 Prop of Materials (3)

# **BACHELOR OF SCIENCE IN CIVIL ENGINEERING TECHNOLOGY**

## *2021-2022 Degree Requirements*

### **STUDENT OUTCOMES**

#### **Upon successful completion of this program:**

##### Student Learning Outcomes

1. An ability to apply knowledge techniques, skills, and modern tools of mathematics, science, engineering, and technology to solve broadly-defined engineering problems appropriate to the discipline;
2. An ability to design systems, components, or processes meeting specified needs for broadly-defined engineering problems appropriate to the discipline;
3. An ability to apply written, oral, and graphical communication in broadly-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature;
4. An ability to conduct standard tests, measurements, and experiments, and to analyze and interpret the results to improve processes;
5. An ability to function effectively as a member as well as a leader on technical teams.