

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING TECHNOLOGY

2021-2022 Degree Requirements

TOTAL CREDITS FOR DEGREE: 131

Name: _____

ID Number: _____

UNIVERSITY CORE CURRICULUM: 42 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 180	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	EGR101	3 credits

MAJOR REQUIREMENTS: 89 cr.

CHEM 102 General Chemistry II (3)	ET 204	Programming for Eng Tech (3)
CHEM 103 General Chemistry Laboratory I (1)	ET 405	Fund. Of Engineering Exam I (0)
CHEM 104 General Chemistry Laboratory II (1)	ET 406	Fund. Of Engineering Exam II (0)
MATH 175 Elementary Stat (3)	ETGR 205	Eng Tech Graph (3)
MATH 185 Trigonometry (2)	MET 101	Statics (3)
MATH 190 Calculus I (4)	MET 102	Dynamics (3)
MATH 210 Calculus II (4)	MET 212	Properties of Materials (3)
MATH 230 Linear Algebra OR	MET 213	Strength of Materials (3)
MATH 310 Differential Equations (3)	MET 214	Strength of Materials Lab (1)
NSET 218 Technical Writing (3)	MET 215	Thermodynamics (3)
	MET 320	Kinematics of Machine Elements (4)
	MET 331	Engineering Des Pro/Eng (3)
PHYS 201 Fundamentals of Physics I (3)	MET 405	Heat Transfer (4)
PHYS 202 Fundamentals of Physics II (3)		
PHYS 103 Physics Laboratory I (1)	MET 411	Fluid Mechanics (3)
PHYS 104 Physics Laboratory II (1)	MET 412	Fluid Mechanics Lab (1)
EET 102 DC Circuits (3)	MET 416	Mechanical Vibrations (3)
EET 103 AC Circuits (3)	MET 421	Machine Design Theory & Project (4)
EET 104 DC Circuits Lab (1)	MET 424	Finite Element Analysis (3)
EET 105 AC Circuits Lab (1)	MET 425	FEA with ANSYS (2)

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PROGRAM OBJECTIVES

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

1. Analyze and design structural systems.
2. Analyze and design mechanical systems in motion.
3. Analyze and design thermal systems and processes.
4. Use engineering software in design and analysis and will create engineering software.
5. Apply mathematics, physics, chemistry, and material properties.
6. Collaborate in classroom and laboratory settings.
7. Produce effective documents and oral presentations.
8. Plan and manage technical projects.
9. Grow professionally through independent learning.
10. Take the Fundamentals of Engineering examination as a first-step towards professional licensure.
11. Knowledge of professional laws and codes.
12. Understand the personal and professional roles of an engineering technologist in society.