

Updated 5-16-2025 TCT

Approved MTE Elective Courses**

BSC 114 – Principles of Biology

CE 262 – Civil & Construction Engineering Materials

CE 425 – Air Pollution (see prerequisites in catalog)

CH 223 – Quantitative Analysis

CH 231 – Elementary Organic Chemistry I

ECE 320 – Fundamentals of Electrical Engineering

GEO 210 – Minerology

GY 339 – Natural Resources & Environmental Planning

MFE 342 – Fundamentals of Materials Processing

MFE 442 – Advanced Materials Science and Additive Processes

MTE 412 (or CHE 412) – Polymer Materials Engineering

MTE 439 – Metallurgy of Welding

MTE 449 – Powder Metallurgy

MTE 450 – Plasma Processing of Thin Films

MTE 467 – Strengthening Mechanisms in Materials

MTE 476 – Physical Ceramics

MTE 487 – Corrosion Science & Engineering

PH 253 – Modern Physics

PH 331 – Electricity and Magnetism I

PH 481 – Solid State Physics

MATH 237 – Introduction to Linear Algebra

MATH 343 – Applied Differential Equations II

MATH 411 – Numerical Analysis I

GES 255 or 400 – Engineering Statistics

ST 260 – Statistical Data Analysis

** Other courses in "materials-related" or "engineering-related" sciences can be taken provided that it has been approved by the Department and Dean via petition.

Engineering Registration as a Professional Engineer

Engineering is a profession requiring state registration to become a "Professional Engineer." The first step towards becoming registered is passing the Fundamentals of Engineering Exam. Students are strongly encouraged (but not required) to take and pass the Fundamentals of Engineering Exam before they graduate.



College of Engineering Metallurgical and Materials Engineering