

- CET353 Web Development for Engineering Applications (3 hrs)
- CET387 Cooperative Education in Computer Engineering Technology (3 hrs)
- CET427 Programmable Logic Controller (3 hrs)
- CET451 Engineering Database Development (3 hrs)
- CET453 Engineering Programming (3 hrs)
- CET491 Senior Design Capstone (3 hrs)
- POM374 Introduction to Product/Operation Management (3 hrs)
- IS380 Introduction to Databases (3 hrs)

Restricted Electives 6 hours

Six hours from the following selected in consultation with the adviser:

- CET426 Engineering Product Information (3 hrs)
- ELEC314 Digital Circuit Analysis II (3 hrs)
- ELEC420 Advanced Microprocessors (3 hrs)
- CADM223 Engineering Graphics II (3 hrs)
- MET312 Applied Dynamics Principles (3 hrs)
- MFG111 Engineering Materials (3 hrs)
- MFG123 Manufacturing Processes and Methods (3 hrs)
- MATH122 Elementary Linear Algebra (3 hrs)
- MATH325 Differential Equations (3 hrs)
- COSC221 Computer Organization I (3 hrs)
- COSC321 Computer Organization II (3 hrs)
- IS315 Applied Data Structures (3 hrs)
- or adviser approved courses

Minor Requirements0 hours

No minor is required.

University Elective Courses0 hours

Program Total124 hours

ELECTRONIC ENGINEERING TECHNOLOGY MAJOR (EET)

The electronic engineering technology major is designed to prepare students for interesting and challenging positions in the diverse field of electronics. The curriculum provides for a strong foundation in electronics to support future changes in technology or the career roles of the individual. The graduate may find employment on engineering teams in product design and development, in production and automation, in instrumentation and communications or in technical sales and operations.

General Education Requirements50 hours

Area I Symbolics and Communication

1. See page 23
2. CTAS121 Fundamentals of Speech (2 hrs)
3. ENGL324 Principles of Technical Communication (3 hrs)
4. MATH120 Calculus I (4 hrs)
5. COSC246 Programming in C++ (3 hrs)

Area II Science and Technology

1. CHEM121/122 General Chemistry I with lab (4 hrs)
2. PSY101 General Psychology (3 hrs)
3. PHY223 Mechanics and Sound (5 hrs)

Area III Social Sciences

1. See page 24
2. See page 24
3. ECON201 Principles of Macroeconomics (3 hrs)
4. ECON202 Principles of Microeconomics (3 hrs)

Area IV Arts and Humanities

1. See page 24
2. See page 25
3. See page 25
4. See page 25

Physical Education/Graduation Requirement2 hours

Major Requirements72 hours

Engineering Technology Core Courses 18 hours

- CADM122 Engineering Graphics I (3 hrs)
- ELEC200 Circuit Analysis I (3 hrs)
- MATH121 Calculus II (4 hrs)
- PHY224 Electricity and Light (5 hrs)
- MET312 Applied Dynamics Principles (3 hrs)

EET Major Courses 54 hours

- ET100 Introduction to Engineering Technology (3 hrs)
- CADM426 Manufacturing Communication Systems (3 hrs)
- CET427 Programmable Logic Controllers (3 hrs)
- COSC238 Computer Science II (3 hrs)
- ELEC210 Circuit Analysis II (3 hrs)
- ELEC214 Digital Circuit Analysis I (3 hrs)
- ELEC215 Computer-Aided Electronics (3 hrs)
- ELEC218 Motors and Controls (3 hrs)
- ELEC300 Analog Circuit Analysis I (3 hrs)
- ELEC310 Analog Circuit Analysis II (3 hrs)
- ELEC314 Digital Circuit Analysis II (3 hrs)
- ELEC320 Microcomputer Circuits (3 hrs)
- ELEC387 Cooperative Education in Electronic Technology (3 hrs)
- ELEC415 Communication Circuits (3 hrs)
- ELEC420 Advanced Microprocessors (3 hrs)
- ELEC450 Senior Design Project (3 hrs)
- MATH122 Elementary Linear Algebra (3 hrs)
- QUAL320 Industrial Quality Control (3 hrs)

Minor Requirements0 hours

No minor is required.

University Elective Courses0 hours

Program Total124 hours

MANUFACTURING ENGINEERING TECHNOLOGY MAJOR (MFGET)

The Manufacturing Engineering Technology program prepares the student for the development, design, analysis, planning, supervision and construction of methods and equipment for the production of industrial and consumer goods. Students receive a unique blend of knowledge which directly corresponds to modern applications used in manufacturing. Graduates can become certified as manufacturing engineers by the Society of Manufacturing Engineers.

General Education Requirements50 hours

Area I Symbolics and Communication

1. See page 23
2. CTAS121 Fundamentals of Speech (2 hrs)
3. ENGL324 Principles of Technical Communication (3 hrs)
4. MATH120 Calculus I (4 hrs)
5. COSC246 Programming in C++ (3 hrs)

Area II Science and Technology

1. CHEM121/122 General Chemistry I with lab (4 hrs)
2. PSY101 General Psychology (3 hrs)
3. PHY223 Mechanics and Sound (5 hrs)

Area III Social Sciences

1. See page 24
2. See page 24
3. ECON201 Principles of Macroeconomics (3 hrs)
4. ECON202 Principles of Microeconomics (3 hrs)

Area IV Arts and Humanities

1. See page 25
2. See page 25
3. See page 25
4. See page 25

Additional Requirements	12 hours
MATH121 Calculus II (4 hrs)	
MATH170 Elementary Statistics (3 hrs)	
PHY224 Electricity and Light (5 hrs)	
Physical Education/Graduation Requirement	2 hours
Major Requirements	63 hours
ET100 Introduction to Engineering Technology (3 hrs)	
MFG111 Materials (3 hrs)	
CADM122 Engineering Graphics I (3 hrs)	
MFG123 Manufacturing Processes and Methods I (3 hrs)	
MFG124 Manufacturing Processes and Methods II (3 hrs)	
ELEC200 Circuit Analysis (3 hrs)	
MFG203 Industrial Operations (3 hrs)	
MET211 Statics (3 hrs)	
MET313 Applied Mechanics of Materials (3 hrs)	
MET319 Fluid Mechanics (3 hrs)	
ELEC218 Motors and Controls (3 hrs)	
CADM223 Engineering Graphics II (3 hrs)	
MFG290 GD&T and Metrology (3 hrs)	
MFG306 Plastics Processing (3 hrs)	
MFG316 Design for Manufacturing and Tooling (3 hrs)	
QUAL320 Industrial Quality Control (3 hrs)	
MFG361 Computer Numerical Control (3 hrs)	
MFG387 Cooperative Education (3 hrs)	
MFG421 Manufacturing Engineering and Analysis (3 hrs)	
MFG470 Integrated Product and Process Design (3 hrs)	
MFG490 Manufacturing Enterprise Capstone (3 hrs)	
Minor Requirements	0 hours
<i>No minor is required.</i>	
Program Total	127 hours

MECHANICAL ENGINEERING TECHNOLOGY MAJOR (MET)

The mechanical engineering technology major offers the opportunity to prepare for rewarding and responsible careers in support of technical and engineering activities. The program is designed to provide graduates with a strong technical foundation that integrates the methods, materials, machinery and power resources found in modern industry. Students receive both lecture and hands-on laboratory training in manufacturing processes, engineering mechanics, thermo-fluid sciences and machine design, culminating in a senior design capstone project.

General Education Requirements	50 hours
<i>Area I Symbolics and Communication</i>	
1. See page 23	
2. CTAS121 Fundamentals of Speech (2 hrs)	
3. ENGL324 Principles of Technical Communication (3 hrs)	
4. MATH120 Calculus I (4 hrs)	
5. COSC246 Programming in C++ (3 hrs)	
<i>Area II Science and Technology</i>	
1. CHEM121/122 General Chemistry I with lab (4 hrs)	
2. PSY101 General Psychology (3 hrs)	
3. PHY223 Mechanics and Sound (5 hrs)	
<i>Area III Social Sciences</i>	
1. See page 24	
2. See page 24	
3. ECON201 Principles of Macroeconomics (3 hrs)	
4. ECON202 Principles of Microeconomics (3 hrs)	
<i>Area IV Arts and Humanities</i>	
1. See page 25	
2. See page 25	
3. See page 25	
4. See page 25	

Physical Education/Graduation Requirement	2 hours
Major Requirements	72 hours
ET100 Introduction to Engineering Technology (3 hrs)	
MFG111 Materials (3 hrs)	
MATH121 Calculus II (4 hrs)	
CADM122 Engineering Graphics I (3 hrs)	
MFG123 Manufacturing Processes and Methods I (3 hrs)	
MFG124 Manufacturing Processes and Methods II (3 hrs)	
MET211 Statics (3 hrs)	
CADM223 Engineering Graphics II (3 hrs)	
ELEC200 Circuit Analysis I (3 hrs)	
PHY224 Electricity and Light (5 hrs)	
MET312 Applied Dynamics Principles (3 hrs)	
MET313 Applied Mechanics of Materials (3 hrs)	
MET314 Applied Thermodynamics and Heat Transfer (3 hrs)	
MFG316 Design for Manufacturing and Tooling (3 hrs)	
MET319 Fluid Mechanics (3 hrs)	
MET387 Cooperative Education (3 hrs)	
MET411 Mechanical/Machine Design (3 hrs)	
ELEC218 Motors and Controls (3 hrs)	
MET434 Finite Element Analysis for Engineering Applications (3 hrs)	
MET437 Kinematics of Machines (3 hrs)	
MET470 Mechanical Vibrations (3 hrs)	
MET492 Senior Design Project I (3 hrs)	
MET493 Senior Design Project II (3 hrs)	

Minor Requirements	0 hours
<i>No minor is required.</i>	

University Elective Courses	0 hours
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Program Total	124 hours
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Note:

**This course satisfies both a general education and a major requirement.*

INTERIOR DESIGN PROGRAM (IDE)

The interior design program offers a Foundation for Interior Design Education Research (FIDER) accredited, four-year studio based curriculum, culminating in a bachelor's of science degree. The program's mission is to academically prepare students to enable them to creatively solve problems related to the function and quality of interior environments.

The program promotes critical thinking by requiring a balance between broad liberal arts courses, specific courses in fine arts, management, marketing, construction, textiles; and an intense curriculum of interior design courses. The interior design curriculum provides experiential educational opportunities to investigate the interaction of humans and environments through the integration of theory, knowledge and technical skills, preparing students to achieve in the challenging profession of interior design. Central to our mission of preparing students to achieve as professional interior design practitioners is our goal to impart to our students: a holistic view of people and their environments in multi-cultural, multi-racial and multi-ethnic settings; a sensitivity to environmentally conscious design issues; a consideration of the needs of all people, regardless of age, stature or ability; and the ability to creatively analyze design problems in order to create interior environments that meet human needs and fulfill human aspirations.

Before students may enter courses at the 300- or 400-level, the following standards must be met:

1. The student must receive a C or better in a) identified courses in the major and b) identified general education courses;
2. The student must achieve a GPA of 2.7 or above as calculated from the grades in a) identified courses in the major and b) identified general education courses; and
3. The student must successfully complete a portfolio review by a minimum of two interior design faculty members and one interior design practitioner who has not taught courses in the interior design program in the previous two years.