

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
--	----------------

Program Total	124 hours
----------------------------	------------------

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.

General Education Requirements48 hours

Area I Symbolics and Communication

1. ENGL121 Composition II: Researching the Public Experience (3 hrs)
2. See page 23
3. *One course from the following:*
 - ENGL324 Principles of Technical Communication (3 hrs)
 - CTAC224 Public Speaking (3 hrs)
 - CTAC225 Listening Behavior (3 hrs)
 - CTAC226 Non-Verbal Communication (3 hrs)
 - CTAC227 Interpersonal Communication (3 hrs)
 - CTAC374 Intercultural Communication (3 hrs)
 - CTAC375 Interracial/Interethnic Communication (3 hrs)
4. CADM105 Computer Applications for Industry (3 hrs)
5. See page 23

Area II Science and Technology

1. See page 24
2. PSY101 General Psychology (3 hrs)
3. See page 24

Area III Social Sciences

1. See page 24
2. See page 24
3. *Choose one of the following:*
 - SOCL105 Introductory Sociology (3 hrs)
 - ANTH135 Introduction to Cultural Anthropology (3 hrs)
4. See page 24

Area IV Arts and Humanities

1. See page 25
2. See page 25
3. See page 25
4. ART123 Drawing I (3 hrs)

Additional Requirements3 hours

- ART122 Two-Dimensional Design (3 hrs)

Physical Education/Graduation Requirement2 hours

Major Requirements73 hours

- | | |
|---|-----------------|
| Required Courses | 70 hours |
| †IDE110 Interior Design Studio I (4 hrs) | |
| †IDE111 Human Factors and Special Needs (2 hrs) | |
| †IDE120 Interior Design Studio II (4 hrs) | |
| †IDE121 Interior Design Materials and Components (2 hrs) | |
| †IDE122 Design Theory II (2 hrs) | |
| †IDE131 Design Theory I (2 hrs) | |
| †IDE210 Interior Design Studio III (4 hrs) | |
| †IDE213 Computers for Interior Design (2 hrs) | |
| IDE217 History of Interiors: Ancient – 1800 (2 hrs) | |
| †IDE220 Interior Design Studio IV (4 hrs) | |
| IDE224 Interior Building Codes and ADA (2 hrs) | |
| IDE228 History of Interiors: 1800 – Present (2 hrs) | |
| IDE310 Interior Design Studio V: Residential (4 hrs) | |
| IDE314 Computers for Interior Design II (2 hrs) | |
| IDE317 Lighting for Interiors (2 hrs) | |
| IDE320 Interior Design Studio VI: Contract (4 hrs) | |
| IDE322 Interior Design Space Planning and Specification (2 hrs) | |
| IDE324 Lighting for Interiors (2 hrs) | |
| IDE410 Interior Design Studio VII: Contract (4 hrs) | |
| IDE411 Internship in Interior Design (1 hr) | |
| IDE420 Interior Design Studio VIII: Contract (4 hrs) | |
| IDE422 Professional Practice in Interior Design (2 hrs) | |
| ATM378 Interior Design Textiles (2 hrs) | |
| †CNST201 Construction Systems (3 hrs) | |
| MGMT386 Organizational Behavior and Theory (3 hrs) | |
| MKTG360 Principles of Marketing (3 hrs) | |

Restrictive Elective Courses 3 hours

Any one hour IDE 100- or 200-level course not taken above and any two hour IDE 300- or 400-level course not taken above. Selected in consultation with the interior design adviser.

Minor Requirements0 hours

No minor is required.

University Elective Courses0 hours

Program Total126 hours

Note:

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

†Course must be completed with a grade of C or better prior to completion of second year review process.

MANUFACTURING TECHNOLOGY MAJOR (MFG)

The rapid increase in complexity of manufacturing technology and operations has caused the education of most engineers to become increasingly theoretical. This has produced a demand for manufacturing professionals who have applied technical skills. Our graduates, who are educated in applied technologies, help to meet that demand. Students majoring in manufacturing are prepared for a wide range of professional positions in industry. Graduates are employed as manufacturing engineers; manufacturing operations managers; computer applications integrators; product, process and tool designers; and in many other technical and managerial positions. The manufacturing technology major includes a core of fundamental manufacturing courses designed to produce a well-rounded graduate with hands-on experience. In advanced courses, students gain knowledge and skills in mechanical and tool design, fluid power systems, quality control, robotics and control technologies for machines, processes and manufacturing operations management. A number of our graduates have become certified as manufacturing technologists or manufacturing engineers by the Society of Manufacturing Engineers.

General Education Requirements48 hours

Area I Symbolics and Communication

1. See page 23
2. See page 23
3. ENGL324 Principles of Technical Communication (3 hrs)
4. MATH170 Elementary Statistics (3 hrs)
5. CADM105 Computer Applications for Industry (3 hrs)

Area II Science and Technology

1. CHEM117/118 Fundamentals of Chemistry with lab (4 hrs)
2. PSY101 General Psychology (3 hrs)
3. PHY221 Mechanics, Sound, and Heat (4 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 Requirements9 hours

- MATH105 College Algebra (3 hrs)
- MATH107 Plane Trigonometry (2 hrs)
- PHY222 Electricity and Light (4 hrs)

Physical Education/Graduation Requirement2 hours

Major Requirements60 hours

- MFG111 Materials (3 hrs)
- CADM122 Engineering Graphics I (3 hrs)
- CADM223 Engineering Graphics II (3 hrs)
- CADM325 Applied Mechanics, Kinematics, and Design (3 hrs)
- MFG361 Computer Numerical Control (3 hrs)