

MANUFACTURING ENGINEERING TECHNOLOGY, B.S.

Students in the Bachelor of Science in manufacturing engineering technology major will be introduced to the fundamentals and advanced concepts of engineering, materials and production processes used within industry. The program provides in-depth technical content of advanced manufacturing, with emphasis on automated manufacturing, robotics, and computer-aided drafting and design, often collectively referred to as computer-integrated manufacturing (CIM). Laboratory courses require students to design, develop and construct projects independently as well as in small groups. Technologies commonly used by major corporations are emphasized throughout the curriculum. Juniors and seniors are encouraged to participate in a cooperative education or internship experience to further enhance their knowledge in technical areas within an industrial environment.

Manufacturing engineers are responsible for planning the production process of manufactured products. Typical entry-level employment titles for graduates of this program include production managers, production engineers, manufacturing engineers, manufacturing process engineers, technical salespersons and quality assurance engineers. Graduates of the MFET major enjoy outstanding placement in their field at present with salaries among the highest of any majors on campus.

Major in Manufacturing Engineering Technology

Code	Title	Hours
CORE REQUIREMENTS		54
AENG 130	Production Materials & Processes	
AENG 241	Drafting Communications	
AENG 261	Electronic Systems	
AENG 262	Semiconductor Electronics	
AENG 271	Processing Nonmetallic Materials	
AENG 281	Processing Metallic Materials	
AENG 325	Power Conversion and Control	
AENG 326	Fluid Power	
AENG 342	Computer-Aided Engineering Drawing	
AENG 344	Product Design	
AENG 345	Statics/Strength of Materials	
AENG 375	Polymer and Ceramic Technology	
AENG 382	Automated Manufacturing	
AENG 425	Industrial Robotic Systems	
AENG 427	Programmable Logic Controllers	
AENG 448	Machine Tool Design	
AENG 492	Technical Entrepreneurship	
AENG 494	Total Quality Management	
DIRECTED ELECTIVES - Choose 1 class for at least 3 hours from:		3
AENG 300	Co-Op Ed Experience in AENG	
AENG 376	Woodworking Technology	
AENG 392	Intro to Industrial Training	
AENG 400	Co-Op Ed Experience in AENG	
AENG 446	Advanced Applications in Drafting and Design	

AENG 467	Mobile Robotics	
Total Hours		57
Req Related for Manufacturing Engineering Tech		
Code	Title	Hours
MATH 161	Calculus 1	4
Survey of Statistics		3
MATH 130	Elements of Statistics 1	
Physics I with Algebra - Choose 1 of the following:		4-5
PHYS 131	Physics 1 with Algebra	
PHYS 231	Physics 1 with Calculus	
Physics II with Algebra - Choose 1 of the following:		4-5
PHYS 132	Physics 2 with Algebra	
PHYS 232	Physics 2 with Calculus	
CHEM 111	Introductory Chemistry 1	4
Total Hours		19-21