

05-04

June 3, 2005

**Bachelor of Science in Manufacturing Engineering Technology
(code MAE_BS06) (134 units)**

This new program was recommended by the Academic Senate on March 18, 2004, approved by the President on June 14, 2004, and approved the Chancellor on April 18, 2005.

The Manufacturing Engineering Technology Program is designed to provide a solid technical foundation to its graduates, which will enable them to perform well in a variety of employment situations. The program focuses on applications of current manufacturing and quality assurance technologies to solve real-world problems by offering a broad curriculum, which covers current trends in the industry.

The Manufacturing Engineering Technology Program prepares the student for a career position as a Manufacturing Technologist, or Quality Assurance Technologist in a variety of industries, such as Aerospace, Biomedical, Chemical, Computer, Electronics, Power, etc. Students are offered a wide range of training in topics such as materials, manufacturing processes, quality control and different production environments. Moreover, the program emphasizes written and oral communication skills as well as modern methods of industrial administration and supervision. The program is designed to meet ABET criteria for accredited programs in engineering technology.

The program has been developed to accommodate students who may wish to transfer credits earned at other colleges or approved technical or military service schools. It is recommended that prospective students, prior to submitting an application for admission, contact the advisor of the Manufacturing Engineering Technology program to discuss departmental requirements and the admission requirements of the University. The two emphases in the Manufacturing Engineering Technology Program are: (a) Manufacturing Processes, and (b) Quality Assurance

Requirements

Core Engineering Technology Courses for Manufacturing Engineering Technology:

Lower Division: CHEM 111A; MATH 120; ENGR 203, 203L; PHYS 100 A&B; ET 101, 170, 202, 202L, 204, 205, 205L, 244, 244L, 264, 264L,

Upper Division: ECON 300; ET 301, 301L, 302, 302L, 304, 307, 309, 311, 312, 313, 313L, 335, 335L, 390, 390L, 410, 419, 435, 435L, 461, 498

Emphasis in Manufacturing Processes

The Manufacturing Processes emphasis prepares the student for a position as a manufacturing technologist, in a variety of industries, such as Aerospace, Biomedical, Chemical, Computer, Electronics, Power, etc. Students are offered a wide range of training in topics such as materials, manufacturing processes and different production environments. Moreover, the program emphasizes written and oral communication skills as well as modern methods of industrial administration and supervision. The program is designed to meet ABET criteria for accredited programs in engineering technology.

Additional Requirements

Upper Division: ET 363, 365, 365L; Plus 4 units of electives from ET 409C, ET 387, ET 387L.

Emphasis in Quality Assurance

The primary objective of the Quality Assurance emphasis is to prepare graduates to pursue careers related to product manufacturing and quality assurance. Emphasis is placed on specific job skills required of entry level professionals in the manufacturing industries including oral and written communication, and management principles. The Quality Assurance program is applications-oriented, and is available to students interested in a career as Quality Assurance technologists. The emphasis is designed to meet ABET criteria for accredited programs in engineering technology.

Additional Requirements

Core Engineering Technology Courses for Manufacturing Engineering Technology:

Upper Division: ET 320, 419, 420, Plus 2 units of electives from ET 409C, FIN 220.

EFFECTIVE: Spring 2005

Code: 52

College: 52

Career: UG

IPEDS (Major) ERSS: 09256

IPEDS (Degree) ERSD: 09256

Discontinue ET__BS04 and ET__BS05