

# ENGINEERING TECHNOLOGY (ETEC)

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**ETEC 5369. Spcl Tpcs In Adv Indstrl Tech. 3 Hours.**

This course will examine advanced special topics/issues and (or) subject matter in the field of Industrial Technology. The sub-divisional fields offered are: Industrial Technology, Industrial Management, Design and Development, and Construction. This course may be repeated as topics and subject matter change.

**ETEC 5390. Directed Studies. 3 Hours.**

This course is designed to provide students with the opportunity to gain specialized experience in one or more of the following areas: Internship, Laboratory Procedures, Individualized Study, Innovative Curriculum, Workshops, Specialized Training Schools, Seminar. In the internship and laboratory procedures segment, the student will gain organization and management techniques through observation and participation in conducting classroom activities and associated laboratory experience. The student may gain experience in a maximum of two areas of competency. In the individualized studies segment, the student will select a problem and work under the direction of a major professor. 1-6 hours, may be repeated or taken concurrently for a maximum of six hours. (Area of study to be indicated on transcript.)

**ETEC 5398. Hist & Phil Industrial Edu. 3 Hours.**

This course is designed to provide the opportunities for in-depth study of the historical background of the industrial education movement.

**ETEC 6099. Thesis. 1-3 Hours.****ETEC 6331. Plant Layout And Materials Handling. 3 Hours.**

A study of the methods in planning and control of production; operation analysis; routing; scheduling and dispatching; production charts and boards; inventory control; accumulation of material requirements; and use of critical path techniques used in industry.

**ETEC 6334. Materials Test Technology. 3 Hours.**

A study of internal stresses and deformation of bodies resulting from the action of external forces; concepts and techniques of testing tensile, compression, shear, transverse, hardness and the elasticity on various materials and fasteners.

**ETEC 6335. Principles And Techniques Of Research In Industrial Education. 3 Hours.**

A study of the basic principles of research and the techniques of application as related to Industrial Education.

**ETEC 6398. Thesis. 3 Hours.**

In addition to the preliminary study of the techniques of research, these course involve completion of a bibliography, organization of material, selection of a suitable problem, a digest of related literature, selection of appropriate procedures, formulation of a plan of investigating and reporting, collection and organization of data, and the writing of the thesis.

**ETEC 6399. Thesis. 3 Hours.**

In addition to the preliminary study of the techniques of research, these course involve completion of a bibliography, organization of material, selection of a suitable problem, a digest of related literature, selection of appropriate procedures, formulation of a plan of investigating and reporting, collection and organization of data, and the writing of the thesis.