

# ENGINEERING TECHNOLOGY

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The Department of Engineering Technology offers programs of study leading to a Bachelor of Science degree in Manufacturing Engineering Technology, a Bachelor of Science degree in Industrial Technology, a Bachelor of Science degree in Aviation Science, and a Bachelor of Applied Arts and Sciences degree in Industrial Occupations, and a Master of Science degree in Manufacturing Quality and Leadership.

## ***Bachelor of Science in Manufacturing Engineering Technology***

The Bachelor of Science degree in Manufacturing Engineering Technology educates students in a wide range of manufacturing related areas: quality, ergonomics, production planning, management, control systems, productivity, automated systems, and computer modeling. The Manufacturing Engineering Technology courses are supplemented with a foundation of Industrial Technology courses and emphases in mathematics, statistics, and the sciences. A wide choice of electives compliments the degree, allowing the student maximum flexibility in the areas of business, science, mathematics, computer information systems, and pre-engineering.

## ***Bachelor of Science in Industrial Technology***

The Bachelor of Science degree in Industrial Technology provides a common core of courses and four emphasis areas from which to choose: General Industrial Technology, Industrial Design, Manufacturing Operations, and Technology Education. These emphasis areas provide students with the flexibility to tailor their degree programs to their particular interests.

1. **General Industrial Technology** - This emphasis area provides a broad range of experiences designed to produce the maximum flexibility upon entering the workforce. A broad range of courses is used to introduce the maximum number of concepts in all areas of manufacturing and construction. Students may choose any minor that will complement their interests.
2. **Industrial Design** - This emphasis area provides extensive work in computer-aided design, computer-aided manufacturing, and computer programming to develop an integrated approach to mechanical and industrial design. The common core courses are supplemented with additional design and manufacturing experiences to provide a comprehensive understanding of design and its application to manufacturing.
3. **Manufacturing Operations** - This emphasis area provides an expanded minor in business administration that includes courses in accounting, management, statistics, international business and business law. Additional courses in manufacturing management, productivity, and quality management provide an excellent combination of business and manufacturing concepts.
4. **Technology Education (Secondary Teacher Certification)** - This emphasis area provides students with the professional education courses that lead to state certification to teach Technology Education courses at the secondary level. This combination of courses provides an excellent range of concepts that students can apply in many educational and training fields.

## ***Bachelor of Applied Arts and Sciences in Industrial Occupations***

The Bachelor of Applied Arts and Sciences (BAAS) degree is designed for students who have training in a technical area. Education received at technical schools, community colleges, military technical schools, and employer-sponsored training schools may be applied toward the degree. With appropriate documentation, the technical training may be supplemented with a maximum of 15-21 semester credit hours for work experience. The degree allows students to choose between two emphasis areas.

1. **Industrial Occupations** - This emphasis area allows students to custom design their degree by supplementing their technical training with advanced courses from the Department of Engineering Technology and other departments on campus. The student will work with an advisor to select courses that meet the student's individual needs.
2. **Technology Education (Secondary Teacher Certification)** - This emphasis area provides students with the professional education courses that lead to state certification to teach Technology Education courses at the secondary level. This combination of courses provides an excellent range of concepts that students can apply in many educational and training fields.