Is Engineering Technology Right for Me?
If you want to take theoretical engineering ideas and translate them into actual products and solutions, then engineering technology is the program for you. Engineering technology graduates are often called technologists to distinguish them from graduates of engineering programs. Both disciplines are similar in their skills and interests; however, engineering technology students have more exposure to hands-on learning and more time in the labs applying their knowledge.

Real-World Experience with Co-op Program
Combining classroom and hands-on learning, the engineering technology program emphasizes practical experience including three semester-long, paid cooperative education work assignments through the Cooperative Education Program in the college. Students gain work experience related to their major, and many graduates secure their first high-paying job with a co-op employer. The co-op program has strong connections with employers and in conjunction with the BGSU Career Center and faculty mentors, it assists students in writing resumes, developing interview skills and searching for co-op opportunities.

Choose from more than 1,000 co-op partners including:
- Marathon Oil Company
- Cooper Tire & Rubber
- Emerson Corporation
- Ford Motor Company
- Tenneco
- Dana Corporation
- Ventra Plastics
- Toyota Manufacturing North America, Inc.
- Whirlpool Corporation
- American Honda Motor Company
- Campbell Soup
- Fiat Chrysler America — Jeep Division
- General Electric
- Energizer Battery Company

Outstanding Careers
Engineering technology graduates go on to careers such as design engineers, project managers, product designers, sales engineers, design managers, process engineers, production schedulers, quality engineers, quality auditors and managers, and plant managers.

Exemplary Accreditation
The engineering technology program is accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET www.abet.org. The ABET-ETAC accreditation serves as a proof that the graduates of engineering technology are prepared for industry jobs nationally.

“"I chose BGSU’s engineering technology program because I liked the idea of getting practical, hands-on experience as opposed to more theoretical education that comes with a traditional engineering degree. One of the best things about the program is the required co-ops. Most students find their full-time jobs after graduation from the companies they work with as part of a co-op, and all of us learned valuable knowledge and skills, and strengthened our resumes with real-world work experience.”

Ryan Murphy ’18
Mechanical Process Engineer, SSOE Group
Flexible Specialization Choices
To position graduates for success, courses are offered in mathematics, science and specialized technical areas. The program also includes a complementary core of business and general education classes. Specializations are offered in either mechanical design or quality systems.

Mechanical Design
Mechanical design offers coursework in designing and building mechanical systems, products and processes in a wide range of industrial settings. Students gain experience in hands-on use of CAD/CAM software, analysis techniques, design methods, machining processes and materials selection. Students also gain valuable knowledge about the way various machines function and design their own.

Quality Systems
The quality systems specialization focuses on the foundations of Lean Systems, Six Sigma improvement philosophy and the fundamental constituents of a Quality Management System. Quality systems knowledge allows the graduate with an engineering technology degree to interact with all phases of the business to assure a product or service meets design intent and consequently satisfies customer expectations.

Learning Outcomes
You will learn how to:

• Develop computer-aided design (CAD) skills with relevant computer software including 2D drafting and 3D solid modeling
• Design mechanical systems and machine elements
• Demonstrate knowledge of manufacturing processes and how products are manufactured
• Devise product manufacturing processes
• Operate machine lab equipment such as lathes, mills, band saws and welding equipment
• Program and operate computer numerical control (CNC) machines, 3D printers and scanners
• Apply the basic principles of the Lean Enterprise
• Diagnose basic electrical systems and work with programmable logic controllers (PLC)
• Assess sustainable and renewable technologies and their role in the societies
• Design a product, perform various analyses and plan its production
• Demonstrate proficiency with the core tools of quality systems including capability analysis, statistical process control, failure mode and effects analysis, root cause analysis, quality planning, designed experiments and measurement system analysis
• Apply the core tools of quality systems and seven basic tools of quality to identify opportunities for improvement and solve organizational problems

For additional information:
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