Associate in Applied Science

The associate in Applied Science in Engineering Technology at Ohio University Lancaster is a two-year program that was developed in response to the great demand expressed by manufacturers for skilled technicians and engineering technologists.

Program Description

The Engineering Technology program is designed to prepare students with technical skills needed for critically and creatively thinking through a complex problem by exposing them to real-world applications using hands-on lab courses. Students are taught a variety of manufacturing processes, materials, metrology as well as electronics and CNC programming in a dedicated lab.

Three tracks within the program prepare the graduate to focus as either an Electro-mechanical technician, Mechanical maintenance technician or allow students to prepare for continued studies in a Bachelor’s degree in Engineering or Engineering Technology.

Career Opportunities

The diverse format of this Associate in Applied Science degree provides the student with a wide variety of career opportunities. The electro-mechanical track prepares the student as an electrician or an electronics technician for programmable logic controllers (PLCs) and electric motors and controls. Such graduates may work for manufacturers of field service providers to set up and troubleshoot sensors, automated equipment, and robots to ensure productivity. They may have job titles such as industrial systems technician, automation specialist or engineering technician. Some may be involved in equipment sales. The mechanical maintenance track prepares the student for a career as a machine repair technician, plant mechanical technician, testing technician or production quality technician. The engineering track of the program provides students with the opportunity to pursue select engineering baccalaureate programs offered by the Russ College of Engineering and Technology. By also taking classes at the Athens Campus, a wider range of engineering programs may be possible. Graduates are well-positioned to pursue a bachelor’s degree with additional years of study. Students should discuss with their advisors the career pathway that best suits their individual interests.
Degree Requirements
The Engineering Technology (ENGT) major program requires a minimum of 61 hours.

Major Requirements
Complete the following courses for all tracks of the program:
- BMT 1150 Foundations of Quality and Continuous Improvement - Credit Hrs: 3.0
- CTCH 1250 Introduction to Computers - Credit Hrs: 3.0
- ET 1100 Engineering Graphics Fundamentals - Credit Hrs: 2.0
- ETM 1100 Intro to Manufacturing Processes - Credit Hrs: 3.0
- ENGT 1150 Welding and Fabricating - Credit Hrs: 3.0
- ENGT 1170 Metal Machining I - Credit Hrs: 4.0
- ENGT 1200 Basic Electronics - Credit Hrs: 4.0
- ENGT 1500 Machine Repair - Credit Hrs: 3.0
- ENGT 2170 Metal Machining II - Credit Hrs: 3.0
- ENGT 2990 Externship - Credit Hrs: 3.0

General Education and Core Requirements
- COMS 1030 Fundamentals of Public Speaking - Credit Hrs: 3.0
- ENG 1510 Writing and Rhetoric I - Credit Hours: 3.0
- One Tier I Quantitative Skills course: MATH 1300 recommended
- One Tier II Humanities and Literature course (2HL)

Electro-Mechanical Track
- ENGT 2000 Electrical Motors, Control Circuits, and Computers - Credit Hrs: 4.0
- ENGT 2200 Basic Hydraulics and Pneumatics - Credit Hours: 3.0
- ENGT 2210 Programmable Controllers, Instrumentation and Process Control I - Credit Hrs: 3.0
- ENGT 2211 Programmable Controllers, Instrumentation and Process Control II - Credit Hrs: 3.0
- Complete a minimum of 5 credit hours of electives.

Mechanical Maintenance Track
- ENGT 2300 Tool Design - Credit Hrs: 3.0
- ENGT 2400 Materials and Material Testing - Credit Hrs: 3.0
- ENGT 2630 Process Control - Credit Hrs: 3.0
- ENGT 2750 Self-Directed Work Teams - Credit Hrs: 3.0
- Complete a minimum of 6 hours of technical electives.

The Possibilities are Endless:
Ohio University Lancaster offers all the benefits and services of a major university; the convenience of a community college; the affordability of state-assisted tuition; the hands-on learning opportunities of a technical school; and the academic foundation of a university education.

Situated on 113 acres on the northern edge of Lancaster, the campus serves students from throughout central Ohio. The two largest buildings, Brasee Hall and Herrold Hall, house classrooms, state-of-the-art laboratories, faculty offices, a library, art studios, an art gallery, a gymnasium, theatre, an exercise room, a dance studio, a student lounge, and a bookstore. The library offers more than 60,000 volumes, research databases, OhioLINK access, and a learning commons.

All of the Lancaster Campus faculty members hold at least a master’s degree in their fields. More than half of the professors teaching in traditional academic areas such as the humanities, the social/behavioral sciences, the natural sciences, and mathematics hold doctoral degrees. All of the technical faculty have master’s degrees and bring employment-oriented experience to their labs and classrooms.

Associate’s to Bachelor’s Degree Options
This degree program has a specific track for students interested in continuing their education towards a Bachelor's degree in Engineering Technology. Students should complete a minimum of 18 hours from a prescribed list of courses or any Engineering Technology and Management, Electrical Engineering, Chemical Engineering, Mechanical Engineering, Industrial and Systems Engineering, or Civil Engineering course to satisfy this requirement, and students may also use any ENGT course not taken to fulfill another requirement of the major as an elective. Students pursuing the engineering track of this program should discuss with their advisors the availability of courses, when it is best to transfer to Athens and the possible substitution of courses that might increase the applicability of courses to Russell College of Engineering and Technology baccalaureate degree programs.

Admission requirements
To qualify for admission, a student must be a high school graduate or have completed the requirements for the GED. Visit www.ohio.edu/lancaster/futurestudents/admissions.cfm for more information.

Student Services
Ohio University Lancaster Campus
740.654.6711
www.ohio.edu/lancaster

Contact Information
Gina Orr
Engineering Technology Lecturer
Ohio University Lancaster Campus
1570 Granville Pike
Lancaster, OH 43130-1097
740.654.6711
orr@ohio.edu
www.ohio.edu/lancaster/academics/engineeringtechnology.cfm

www.ohio.edu/lancaster | www.ohio.edu/pickerington

Ohio University is an affirmative action institution.
Copyright Ohio University Printing Services • 104538 • 7-15

The information in this guide is subject to change without notice. Please consult the university catalog for the latest information at http://www.catalogs.ohio.edu.