Welding Technology

Required Courses

Why Choose Welding Technology?

Established in 1972, the Welding Technology program produces welding technicians and prepares students for admission into the bachelor of science program in Welding Engineering Technology. Students receive hands-on laboratory experience in welding processes, metallurgy, mechanical testing, inspection and fabrication of weldments. Graduates become technicians involved in testing and improving welding processes, procedures and equipment. Welding Technology graduates hold job titles as welding technicians, welding supervisors, inspectors and sales representatives.

Ferris provides several welding instructional areas including laboratories dedicated to inspection, mechanical testing, robotics, laser processing, digital radiography testing, resistance welding and material preparation/fabrication. In addition to core welding classes, courses in material science, computer aided design, electronics and machine tool disciplines are required and are taught by faculty specialists in those departments.

Career Opportunities

Due to the fact that welding is a basic element in the production of a vast array of items, jobs as welding technologists are abundant. In the United States, welding is utilized in approximately fifty percent of the industrial and commercial products that make up the Gross National Product (GNP.)

Welding Technicians also select and maintain quality control procedures throughout the welding process, and perform destructive and non-destructive tests to ensure the quality and reliability of weldments.

The demand for skilled technicians will continue to grow as the use of automated systems in the metals fabrication industry increases. A wide variety of employment positions are found in the manufacturing and construction industries.

Admission Requirements

Effective for students who enroll after the start of the Fall 2016 semester:

Admission to the College of Engineering Technology is open to high school graduates who demonstrate academic preparedness, maturity, and seriousness of purpose with backgrounds appropriate to their chosen program of studies. Among first-time students in our technical programs, the minimum high school GPA is 2.75, and the minimum ACT composite score is 19
Admission to the Welding Technology program is open to high school graduates who meet the College of Engineering Technology admission requirements, as well as non-graduates who demonstrate by other means that their backgrounds are appropriate to their chosen programs. No prior welding education or experience is required to enroll in the Welding Technology program. An ACT math sub score of 19 or SAT 16 math sub total of 500 and English sub score of 14 or SAT16 EWR of 450 are the minimum requirements to enroll in the technology course sequence. All students are expected to demonstrate maturity and seriousness of purpose to meet their goals.

Transfer students are required to complete MATH 110 or equivalent with B or higher, and ENGL 074 or equivalent with B or higher and have a college GPA of 3.0 or higher prior to being admitted to welding or pre-welding technology.

Please note due to demand, it is important to apply early for this program and immediate entry is not guaranteed.

Students continuing on to the Bachelor's degree program in Welding Engineering Technology are required to maintain a 3.0 GPA and achieve a minimum score of 70 on the NOCTI Job Readiness Assessment for Welding (Test Code 4272) in order to be admitted to welding engineering technology or pre-welding engineering technology.

**General Education Requirements**

All University General Education requirements for an Associate's degree is here

Please consult this link for a complete listing of General Education Electives.

Consult the Required Course above or program advisor for program specific General Education requirements.

**Graduation Requirements**

The Welding Technology program at Ferris leads to an associate in applied science degree.

Students must

- maintain a 2.00 cumulative FSU GPA
- have 15 credits of Ferris classes (FSU Residency requirement)
- have a minimum 60 total credits to earn an associate degree
- complete all general education requirements as outlined on the General Education website

**More Information**

Ferris State University
Welding Program Office
915 Campus Drive - Swan 220
Big Rapids, MI 49307
Phone: 231-591-2511
Email: WELDINGDEGREES@FERRIS.EDU
ADA compliant checksheets are being developed for the 2019-2020 Catalog. If you would like to request an ADA compliant checksheet before the 19-20 catalog is published, please send your request to: FSUCurriculum@ferris.edu