Welding Engineering Technology

Required Courses

Why Choose Welding Engineering Technology?

Established in 1984, the nationally recognized Welding Engineering Technology program is the largest of its kind in the United States. The program is designed to produce plant-level welding engineering technology graduates who are involved in the concept, design and engineering of weldments and implementation of welding processes. This overall knowledge of weldments and the ability to engineer welding and joining systems produces graduates who are in great demand and highly compensated. As recognition of academic excellence and program quality, in August 2008 the Welding Engineering Technology program was granted TAC-ABET Accreditation from the Technology Accreditation Committee (TAC) of ABET.

Ferris provides several welding instructional areas including laboratories dedicated to inspection, mechanical testing, robotics, laser processing, 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

With one out of two products that comprise the gross domestic product containing a weld, the welding profession is prevalent in all areas of our economy. Graduates of the Welding Engineering Technology program currently hold over fifty different job titles. The most common include welding engineer, manufacturing engineer, application engineer, sales engineer and project engineer or manager. Graduates find employment opportunities in all sectors of the construction, fabrication and manufacturing economy. The most common employers include the automotive industry, agricultural and construction equipment producers, oil & gas industry suppliers, welding equipment manufacturers and robotics and welding automation firms. Employment has been procured in more than 30 states across the country, with Michigan, Wisconsin, Illinois, Indiana, Ohio and Iowa having the highest concentrations. Alumni have enjoyed international assignments ranging from a few weeks to five years in over 20 countries on six different continents around the world. Average starting salaries are more than $70,000 per year.

Admission Requirements

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

To be eligible for the Welding Engineering Technology, the following requirements must be met:

- Application for admission submitted by January 15 prior to Fall term requested
- Associate degree in Welding Technology
- A minimum 3.0 honor point average overall
- Satisfy all prerequisites to enter MATH 130 (MATH 120)
- Satisfy all prerequisites to enter EEET 301 (EEET 201)
- FSU PHYS 211 - Introductory Physics I or equivalent transfer course
- FSU ETEC 140 - Engineering Graphics Comprehensive or equivalent transfer course
- FSU MATL 240 - Introduction to Material Science or equivalent transfer course

Welding Engineering Technology applicants are required to 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 bachelor degree.

**General Education Requirements**

All University General Education requirements for a Bachelor’s degree is [here](#)

Please consult this [link](#) for a complete listing of General Education Electives.

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

**Graduation Requirements**

The Welding Engineering Technology program at Ferris leads to a Bachelor of Science degree.

Students must

- Maintain a 2.00 cumulative GPA in all FSU courses
- Have 40 credits at the 300/400 level
- Have 30 credits of Ferris classes (FSU Residency requirement)
- Have a minimum 120 total credits to earn a bachelor 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

The College of Engineering Technology Welding Engineering Technology BS program is
accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC-ABET)

http://www.abet.org/

The next accreditation review is 2021-2022.