

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.

### [Ferris General Admissions Criteria for Transfer Students](#)

#### Welding Engineering Technology Admission Requirements Transfer Students

- 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 pre-requisites to enter MATH 130
- Satisfy all pre-requisites to enter EEET 301
- FSU PHYS 211 or equivalent transfer course
- FSU ETEC 140 or equivalent transfer course
- FSU MATL 240 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 4172) in order to be admitted to welding engineering technology or pre-welding engineering technology bachelor degree.
- \*Required for admission

#### Communication Competency Requirements

FSU Course	FSU Course Title	FSU Cr. Hrs.	FVTC Equiv.	FVTC Course Title	FVTC Cr. Hrs.
ENGL 150*	English 1	3	801-195	Written Communication	3
ENGL 250*	English 2	3	No Equivalent	No Equivalent	3
or ENGL 211	Industrial and Career Writing		or 801-197	or Technical Report	
ENGL 311	Advanced Technical Writing	3	No Equivalent	No Equivalent	No Equivalent
COMM 121	Fundamentals of Public Speaking	3	801-198	Speech	3

#### Quantitative Literacy Requirements

FSU Course	FSU Course Title	FSU Cr. Hrs.	FVTC Equiv.	FVTC Course Title	FVTC Cr. Hrs.
MATH 115	Intermediate Algebra	4	No Equivalent	No Equivalent	0
MATH 120	Trigonometry	4	No Equivalent	No Equivalent	0
MATH 130	Adv. Algebra-Analytical Trigonometry	4	804-197	College Algebra/Trigonometry	5
MATH 220	Calculus 1	4	804-198	Calculus 1	4

#### Natural Sciences Competency Requirements

FSU Course	FSU Course Title	FSU Cr. Hrs.	FVTC Equiv.	FVTC Course Title	FVTC Cr. Hrs.
CHEM 114	Intro. to General Chemistry	4	No Equivalent	No Equivalent	No Equivalent
PHYS 211*	Introductory Physics	4	806-143	College Physics 1	3

#### Self and Society Competency Requirements – Minimum 9 credits from 2 different disciplines with 1 course at 200 level or higher

FSU Course	FSU Course Title	FSU Cr. Hrs.	FVTC Equiv.	FVTC Course Title	FVTC Cr. Hrs.
Varies*	FSU General Education – Self and Society Electives	3	Varies	Varies	3
Varies	FSU General Education – Self and Society Electives	6	Varies	Varies	6

#### Culture Competency Requirements - Minimum 9 credits from 2 different disciplines with 1 course at 200 level or higher

FSU Course	FSU Course Title	FSU Cr. Hrs.	FVTC Equiv.	FVTC Course Title	FVTC Cr. Hrs.
Varies*	FSU General Education - Culture Electives	3	Varies	Varies	3
Varies	FSU General Education - Culture Electives	6	Varies	Varies	6

### [Ferris State University General Education Program](#)

Students are encouraged to work with an advisor to select appropriate general education courses

#### Ferris State University and Fox Valley Technology College – Welding Engineering Technology - Transfer Guide

Effective Spring 2019; updated Summer 2021

Ferris State University is an equal opportunity institution. For information on the University's Policy on Non-Discrimination, visit [ferris.edu/non-discrimination](http://ferris.edu/non-discrimination).

**Major Requirements**

FSU Course	FSU Course Title	FSU Cr. Hrs.	FVTC Equiv.	FVTC Course Title	FVTC Cr. Hrs.
Varies	AAS Welding Technology*	Varies	Varies	Industrial Welding Technology AAS	45
WELD 212	Quality Testing	4	No Equivalent	No Equivalent	No Equivalent
WELD 311	Welding Automation & Robotics 1	4	No Equivalent	No Equivalent	No Equivalent
WELD 312	Design of Weldments	3	No Equivalent	No Equivalent	No Equivalent
WELD 321	Welding Automation & Robotics 2	4	No Equivalent	No Equivalent	No Equivalent
WELD 322	Advanced Resistance Welding	3	No Equivalent	No Equivalent	No Equivalent
WELD 393	Internship	4	No Equivalent	No Equivalent	No Equivalent
WELD 411	Advanced Welding Processes	3	No Equivalent	No Equivalent	No Equivalent
WELD 412	Computer Aided Weldment Design	4	No Equivalent	No Equivalent	No Equivalent
WELD 422	Material Science	3	No Equivalent	No Equivalent	No Equivalent
WELD 499	Project Engineering and Management	3	No Equivalent	No Equivalent	No Equivalent

**Technical Related**

FSU Course	FSU Course Title	FSU Cr. Hrs.	FVTC Equiv.	FVTC Course Title	FVTC Cr. Hrs.
EEET 201*	Electrical Fundamentals	3	621-150	Electrical Theory and Maintenance for Welding	3
MATL 240*	Introduction to Material Science	4	621-116	Welding Metallurgy	3
MFGT 150	Manufacturing Processes	2	No Equivalent	No Equivalent	No Equivalent
ETEC 140*	Engr. Graphics Comprehensive	3	621-129	2D/3D Cad Modeling for Welders	3
EEET 301	Controls for Automation	3	No Equivalent	No Equivalent	No Equivalent
MECH 250	Fluid Power with Controls	2	No Equivalent	No Equivalent	No Equivalent
MFGE 353	Statistical Quality Control	3	No Equivalent	No Equivalent	No Equivalent

**Total Credits Required for Degree****129****Program Delivery and Contact Information:****Main Campus, Big Rapids****College of Engineering Technology**(231) 591-2511 | [weldingdegrees@ferris.edu](mailto:weldingdegrees@ferris.edu) | <http://www.ferris.edu/welding> | <https://www.ferris.edu/HTMLS/colleges/technolo/homepage.htm>*Select courses may be delivered online and/or in a mixed delivery format (i.e. a mix of online and face-to-face instruction at the Ferris Main Campus or at an off-campus location).***Advising Notes**

It is recommended that potential applicants meet with an advisor to review the degree, course schedule, and have any questions answered prior to completing an application. Students who are completing the MTA may have different general education course requirements for the particular degree selected. Meeting with a Ferris advisor prior to the selection of general education or elective course work may reduce the chance of completing a course that will not apply toward the selected degree. Once admitted, students must continue to meet with an advisor as they work toward graduation.

**Transfer Student Orientation**

All new students to Ferris State University are required to complete an orientation.

**Disclaimer**

This is a guide for students who plan to transfer to Ferris State University. This guide is not intended to be a contract with Ferris. The information on this guide is subject to change. Students should contact their community college or Ferris to keep informed of changes. Final responsibility for verifying all transfer information lies with the student. Please refer to effective and/or revised date on the bottom of this guide and the Ferris Catalog at [www.ferris.edu/catalog](http://www.ferris.edu/catalog).

Partners may contact the Transfer Services Center with questions or updates at [otssp@ferris.edu](mailto:otssp@ferris.edu).