

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.

Communication Competency Requirements

FSU Course	FSU Course Title	FSU Cr. Hrs.	PSCC Equiv.	PSCC Course Title	PSCC Cr. Hrs.
ENGL 150	English 1	3	ENGL 1010	English Composition 1	3
ENGL 250	English 2	3	ENGL 1020	English Composition 2	3
ENGL 311	Advanced Technical Writing	3	No Equivalent	No Equivalent	0
COMM 121	Fundamentals of Public Speaking	3	COMM 2045	Public Speaking	3

Quantitative Literacy Requirements

FSU Course	FSU Course Title	FSU Cr. Hrs.	PSCC Equiv.	PSCC Course Title	PSCC Cr. Hrs.
MATH 115	Intermediate Algebra	4	MATH 1130	College Algebra	3
MATH 120*	Trigonometry	3	MATH 1720	Precalculus Trigonometry	3

Natural Sciences Competency Requirements

FSU Course	FSU Course Title	FSU Cr. Hrs.	PSCC Equiv.	PSCC Course Title	PSCC Cr. Hrs.
CHEM 1ZL	CHEM Gen Crd Sci Lab	4	CHEM 1020	Introductory Chemistry 2	4
PHYS 211*	Introductory Physics	4	PHYS 2010	Non-Calculus Physics 1	4

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.	PSCC Equiv.	PSCC Course Title	PSCC Cr. Hrs.
Varies	FSU General Education – Self and Society Electives	9	Varies	Varies	9

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.	PSCC Equiv.	PSCC Course Title	PSCC Cr. Hrs.
Varies	FSU General Education - Culture Electives	9	Varies	Varies	9

Additional General Education Requirements

FSU Course	FSU Course Title	FSU Cr. Hrs.	PSCC Equiv.	PSCC Course Title	PSCC Cr. Hrs.
MATH 130	Adv. Algebra – Analytical Trigonometry	4	MATH 1730	Precalculus	5
MATH 220	Analytical Geometry-Calculus	4	MATH 1910	Calculus 1	4

*Required for admission to the Welding Engineering Technology Bachelor of Science program.

Students are encouraged to work with an advisor to select appropriate general education courses or may visit www.ferris.edu/gened.

Diversity Competency – 2 Courses Required

If not met by courses taken for Culture, Self and Society, or MTA, a student must meet the following:

- 1 course with the Global Diversity attribute
- 1 course with the U.S. Diversity attribute

Major Requirements

FSU Course	FSU Course Title	FSU Cr. Hrs.	PSCC Equiv.	PSCC Course Title	PSCC Cr. Hrs.
Varies	AAS Welding Technology*	Varies	Varies	AAS in Welding Technology	Varies
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 Courses marked with an asterisk are required for admission to the Welding Engineering Technology Bachelor of Science program.

FSU Course	FSU Course Title	FSU Cr. Hrs.	PSCC Equiv.	PSCC Course Title	PSCC Cr. Hrs.
EEET 201*	Electrical Fundamentals	3	EETC 1350	Electrical Technology for MET	3
MATL 240*	Introduction to Material Science	4	WELD 2460	Metallurgy & Materials Testing	4
ETEC 140*	Engr.Graphics Comprehensive	3	ENST 1311 & ENST 1312	CAD 1 with SolidWorks & CAD 2 with SolidWorks	3 & 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 Locations and Contact Information:

Main Campus, Big Rapids

College of Engineering Technology

(231) 591-2511 | weldingdegrees@ferris.edu | <http://www.ferris.edu/welding>

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).

Steps to Apply

1. Complete a free application at www.ferris.edu/apply.
2. Submit Official transcripts from every school attended to:
 - Ferris State University Admissions Office, 1201 S. State St, CSS 201, Big Rapids, MI 49307
 - Transfer@ferris.edu
3. Submit Test Scores (if required)
 - ACT Scores; go to www.act.org. Ferris State University School Code: 1994
 - SAT, CLEP and AP Scores; go to www.collegeboard.org. Ferris State University School Code: 1222

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.