

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.

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

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.
- Courses marked with an * are required for admission to the Welding Engineering Technology Bachelor of Science program.

Communication Competency Requirements

FSU Course	FSU Course Title	FSU Cr. Hrs.	ICC Equiv.	ICC Course Title	ICC Cr. Hrs.
ENGL 150	English 1	3	ENGL 110	Composition 1	3
ENGL 250	English 2	3	ENGL 111	Composition 2	3
ENGL 311	Advanced Technical Writing	3	No Equivalent	No Equivalent	0
COMM 121	Fundamentals of Public Speaking	3	COMM 110	Communication Process / Practice	3

Quantitative Literacy Requirements

FSU Course	FSU Course Title	FSU Cr. Hrs.	ICC Equiv.	ICC Course Title	ICC Cr. Hrs.
MATH 115	Intermediate Algebra	3	MATH 115	College Algebra	4
MATH 120*	Trigonometry	3	MATH 120	College Trigonometry	3

Natural Sciences Competency Requirements

FSU Course	FSU Course Title	FSU Cr. Hrs.	ICC Equiv.	ICC Course Title	ICC Cr. Hrs.
CHEM 114	Intro. to General Chemistry	4	CHEM 120 + CHEM 131	Principles of Chemistry + General Chemistry	7
PHYS 211*	Introductory Physics	4	PHYS 120 or PHYS 121	General Physics or General Physics (pre-req of PHYS 120)	5

Culture Competency Requirements- 3 courses required with a minimum of 9 credits: must be from 2 different disciplines and have at least 1 at FSU 200 level or higher course

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

Self and Society Competency Requirements – 3 courses required with a minimum of 9 credits: must be from 2 different disciplines and have at least 1 at FSU 200 level or higher course

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

Additional General Education Requirements

FSU Course	FSU Course Title	FSU Cr. Hrs.	ICC Equiv.	ICC Course Title	ICC Cr. Hrs.
MATH 130	Adv. Algebra – Analytical Trigonometry	4	MATH 165	Precalculus	5
MATH 220	Analytical Geometry-Calculus	4	MATH 222	Calculus & Analytic Geometry 1	5

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

Major Requirements- 35 credits required

FSU Course	FSU Course Title	FSU Cr. Hrs.	ICC Equiv.	ICC Course Title	ICC Cr. Hrs.
Varies	AAS Welding Technology*	40	Varies	AAS in Welding Technology	42
WELD 212	Quality Testing	4	No Equivalent	No Equivalent	0
WELD 311	Welding Automation & Robotics 1	4	No Equivalent	No Equivalent	0
WELD 312	Design of Weldments	3	No Equivalent	No Equivalent	0
WELD 321	Welding Automation & Robotics 2	4	No Equivalent	No Equivalent	0
WELD 322	Advanced Resistance Welding	3	No Equivalent	No Equivalent	0
WELD 393	Internship	4	No Equivalent	No Equivalent	0
WELD 411	Advanced Welding Processes	3	No Equivalent	No Equivalent	0
WELD 412	Computer Aided Weldment Design	4	No Equivalent	No Equivalent	0
WELD 422	Material Science	3	No Equivalent	No Equivalent	0
WELD 499	Project Engineering and Management	3	No Equivalent	No Equivalent	0

Technical Related

FSU Course	FSU Course Title	FSU Cr. Hrs.	ICC Equiv.	ICC Course Title	ICC Cr. Hrs.
EETC 140*	Engineering Graphics Comprehensive	3	ENGR 113	Engineering Graphics / CAD	3
MFGT 150	Manufacturing Processes	2			
EEET 201*	Electrical Fundamentals	3	No Equivalent	No Equivalent	0
MATL 240*	Introduction to Material Science	4	MECTK 232	Material Science & Physical Metallurgy	3
MECH 250	Fluid Power with Controls	2	MECTK 231	Industrial Fluid Power	3
EEET 301	Controls for Automation	3	No Equivalent	No Equivalent	0
MFGE 353	Statistical Quality Control	3	No Equivalent	No Equivalent	0
Total Credits Required for Degree					129

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

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).

New Student Admission Requirements for incoming freshman refer to the Ferris Catalog. www.ferris.edu/catalog

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.

Partners may contact the Transfer Services Center with questions or updates at otssp@ferris.edu.