FERRIS STATE UNIVERSITY

Welding Engineering Technology

Bachelor of Science Degree

Delta College (DC)

Transfer Guide

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 graduatees 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 Accredition 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.

Admissions Criteria for Transfer Students may be found at **www.ferris.edu/admissions/Transfer/tRANScRIT.htm**

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

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

Communication Competency

FSU Course	FSU Course Title	FSU Cr. Hrs.	DC Equiv.	DC Course Title	DC Cr. Hrs.
ENGL 150	English 1	3	ENG 111	English 1	3
ENGL 250	English 2	3	ENG 112	English 2	3
ENGL 311	Advanced Technical Writing	3	No Equivalent	No Equivalent	0
COMM 121	Fundamentals of Public Speaking	3	COM 112	Fndmtls of Oral Communication	3

Quantitative Literacy Competency

FSU Course	FSU Course Title	FSU Cr. Hrs.	DC Equiv.	DC Course Title	DC Cr. Hrs.
MATH 115	Intermediate Algebra	3	MTH 119	Intermediate Algebra	4
MATH 120*	Trigonometry	3	MTH 121	Trigonometry	3

Natural Sciences Competency

FSU Course	FSU Course Title	FSU Cr. Hrs.	DC Equiv.	DC Course Title	DC Cr. Hrs.
CHEM 114	Intro. to General Chemistry	4	No Equivalent	No Equivalent	No Equivalent
PHYS 211*	Introductory Physics	4	PHY 111	General Physics 1	4

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

FSU Course	FSU Course Title	FSU Cr. Hrs.	DC Equiv.	DC Course Title	DC Cr. Hrs.
Varies	Culture Electives	9	Varies	Varies	9

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

FSU Course	FSU Course Title	FSU Cr. Hrs.	DC Equiv.	DC Course Title	DC Cr. Hrs.
Varies	Self and Society Electives	9	Varies	Varies	9

Additional General Education Requirements

FSU Course	FSU Course Title	FSU Cr. Hrs.	DC Equiv.	DC Course Title	DC Cr. Hrs.
MATH 130	Adv. Algebra – Analytical Trigonometry	4	MTH 121 + MTH 122W or MTH 151	Plane Trigonometry + College Algebra or Pre-calculus Math	4 + 3 or 4
MATH 220	Analytical Geometry-Calculus	4	MTH 161	Analytic Geometry and Calculus I	4

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 - 35 credits required

FSU Course	FSU Course Title	FSU Cr. Hrs.	DC Equiv.	DC Course Title	DC Cr. Hrs.
Varies	AAS Welding Technology*	Varies	Varies	AAS in Welding Fabrication & Robotics	Varies
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 & Management	3	No Equivalent	No Equivalent	0

Technical Related

FSU Course	FSU Course Title	FSU Cr. Hrs.	DC Equiv.	DC Course Title	DC Cr. Hrs.
EEET 201*	Electrical Fundamentals	3	EET 235	Electrical Circuits	3
MATL 240*	Introduction to Material Science	4	MT 221	Material Science	4
MFGT 150	Manufacturing Processes	2	No Equivalent	No Equivalent	0
ETEC 140*	Engr.Graphics Comprehensive	3	CAD 114	Introduction to CAD	3
EEET 301	Controls for Automation	3	No Equivalent	No Equivalent	0
MECH 250	Fluid Power with Controls	2	SKMT 220	Hydraulics and Pneumatics 1	3
MFGE 353	Statistical Quality Control	3	No Equivalent	No Equivalent	0
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| 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).

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.

Reverse Transfer Agreement
The Community College and Ferris have entered into a partnership in order to work collaboratively and creatively to increase student completion of associate and bachelor's degrees. The partners work together to provide a seamless transfer experience and increase student retention and completion at both the community college and Ferris.

Michigan Transfer Agreement (MTA)
Ferris participates in the Michigan Transfer Agreement (MTA). This agreement will facilitate the transfer of general education requirements from one Michigan institution to another. Students may complete the MTA as part of a degree program or as a stand-alone package. The MTA consists of a minimum of 30 general education credit hours as identified by the college or university.

Students transferring to Ferris with the Michigan Transfer Agreement (MTA) and entering a degree program will have met a 30-hour block of lower-level general education courses. However, this does not exempt students from completing program specific prerequisites or higher-level general education course requirements. Students should contact their advisor regarding classes that meet the MTA.

Students must work with their Ferris advisor to declare a Minor or Concentration and for selection of Directed Electives.

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.