

Ferris Program: Welding Engineering Technology

Degree Type: Bachelor of Applied Science

Ferris College: College of Engineering Technology

Transfer School: Grand Rapids Community College (GRCC)

Consortium Eligible: No

Total Credits Required: 129

Catalog Year: 2022-2023

GENERAL EDUCATION REQUIREMENTS – 46 Credits Required

Students are encouraged to work with an advisor to select appropriate general education courses. 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 and 1 course with the U.S. Diversity attribute.

Visit the Ferris State for more information.

Communication Competency

| Ferris Course | Ferris Course Title | Ferris Credit Hours | Transfer Course |
|---------------|---------------------------------|---------------------|-----------------|
| COMM 121 | Fundamentals of Public Speaking | 3 | COM 131 |
| ENGL 150 | English 1 | 3 | ENG 101 |
| ENGL 250 | English 2 | 3 | ENG 102 |
| ENGL 311 | Advanced Technical Writing | 3 | No Equivalent |

Quantitative Literacy

| Ferris Course | Ferris Course Title | Ferris Credit Hours | Transfer Course |
|---------------|--|---------------------|-----------------|
| MATH 130 | Advanced Algebra and Analytical Trigonometry | 4 | MA 131 |
| MATH 220 | Analytical Geometry and Calculus 1 | 4 | MA 133 |

Natural Sciences Competency

Two courses are required with a minimum of 6 credits: must have at least one lab course.

| Ferris Course | Ferris Course Title | Ferris Credit Hours | Transfer Course |
|---------------|-----------------------------------|---------------------|-----------------|
| CHEM 114 | Introduction to General Chemistry | 4 | CHM 120 |
| PHYS 211 | Introductory Physics 1 | 4 | PH 125 |

FERRIS STATE UNIVERSITY

Cultural Competency

Three courses are required with a minimum of 9 credits: must be from two different disciplines and have at least one at FSU 200 level or higher course.

| Ferris Course | Ferris Course Title | Ferris Credit Hours | Transfer Course |
|---------------|---------------------|---------------------|-----------------|
| Varies | Culture Electives | 9 | Varies |

Self and Society Competency

Three courses are required with a minimum of 9 credits: must be from two different disciplines and have at least one at FSU 200 level or higher course, and at least one Self and Society Foundation course.

| Ferris Course | Ferris Course Title | Ferris Credit Hours | Transfer Course |
|---------------|----------------------------|---------------------|-----------------|
| Varies | Self and Society Electives | 9 | Varies |

COLLEGE REQUIREMENTS – 83 Credits Required

Major Courses

35 Credits Required.

| Ferris Course | Ferris Course Title | Ferris Credit Hours | Transfer Course |
|---------------|------------------------------------|---------------------|-----------------|
| WELD 212 | Quality Testing | 4 | No Equivalent |
| WELD 311 | Welding Automation and Robotics 1 | 4 | No Equivalent |
| WELD 312 | Design of Weldments | 3 | No Equivalent |
| WELD 321 | Welding Automation and Robotics 2 | 4 | No Equivalent |
| WELD 322 | Advanced Resistance Welding | 3 | No Equivalent |
| WELD 393 | Internship | 4 | No Equivalent |
| WELD 411 | Advanced Welding Processes | 3 | No Equivalent |
| WELD 412 | Computer Aided Weldment Design | 4 | No Equivalent |
| WELD 422 | Welding Metallurgy | 3 | No Equivalent |
| WELD 499 | Project Engineering and Management | 3 | No Equivalent |

Technical Related Courses

8 Credits Required.

FERRIS STATE UNIVERSITY

| Ferris Course | Ferris Course Title | Ferris Credit Hours | Transfer Course |
|---------------|-----------------------------|---------------------|-------------------|
| EEET 301 | Controls for Automation | 3 | No Equivalent |
| MECH 250 | Fluid Power with Controls | 2 | MN 217 and MN 218 |
| MFGE 353 | Statistical Quality Control | 3 | No Equivalent |

Associate Degree Coursework

A total of 40 credits from the Associate of Applied Science (AAS) in Welding Technology (WELT) degree, or equivalent, approved by the department.

| Ferris Course | Ferris Course Title | Ferris Credit Hours | Transfer Course |
|---------------|---|---------------------|-----------------|
| Varies | Associate of Applied Science (AAS) in Welding Technology (WELT) Credits | 40 | Varies |
| * EAET 201 | Electrical Fundamentals | 3 | EL 144 |
| * ETEC 140 | Engr Graphics Comprehensive | 3 | EG 110 |
| * MATL 240 | Introduction to Material Science | 4 | TE 114 |

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

PROGRAM CONTACT INFORMATION

Welding Engineering Technology Programs
(231) 591-2511

(616) 451-4777

ADMISSION REQUIREMENTS

New Student Admission Requirements

- The Welding Engineering Technology, BS degree is only open to students who meet the Transfer Student Admission Requirements below.
- High school students interested in this program may apply to the Welding Technology, AAS program.

Transfer Student Admission Requirements

- Must have completed an Associate of Applied Science degree in Welding Technology.
- 3.00 College GPA (on a 4.00 scale)
- Placement in MATH 130
- Placement in EEET 301
- Completed PHYS 211, ETEC 140 and MATL 240 or equivalents

FERRIS STATE UNIVERSITY

MORE INFORMATION

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 a statewide location).

To fulfill the residency requirement for a bachelor's degree a student must earn a minimum of 30 credits from Ferris State University.

Steps to Apply

- Complete your .
- Submit official transcripts
 - Submit official transcripts from every school attended to
 - Or mail to:
Ferris State University Admissions Office
1201 S. State St., CSS 201
Big Rapids, MI 49307
- Submit test scores (if required)
 - ACT Scores; go to the - Ferris State University School Code: 1994
 - SAT, CLEP and AP Sores; go to the - Ferris State University School Code: 1222

Advising Notes

It is recommended that potential applicants meet with an advisor to review the degree, course schedule, transfer policies and have any questions answered prior to completing an application. Ferris accepts transfer courses in which the student earned a letter grade of "C" or better. Additional policies such as the Ferris Sunset and Residency Requirement should be discussed with a Ferris advisor. 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 coursework may reduce the chance of completing a course that will not apply toward the selected degree. Students must work with their Ferris advisor to declare a Minor or Concentration and for the selection of Directed Electives.

Once admitted, students are required to complete an orientation and should continue to meet with an advisor as they work toward graduation.

To schedule an appointment or for additional transfer resources and policies see our .

*Indicates an approved Ferris course substitution

Reverse Transfer Agreement

Ferris has reverse transfer agreements with several Michigan Community Colleges. Under such agreement, Ferris will provide your official University transcript to a partner school you have attended, so that they may grant you an associate or bachelor's degree upon completion of sufficient and appropriate credit hours from both institutions. In turn, the degree-granting institution will provide Ferris with an updated transcript reflecting the newly earned credential.

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

FERRIS STATE UNIVERSITY

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.

Transfer Equivalencies Tools

The transfer equivalencies link is located in the Transfer Resources section at .

Disclaimer

Transfer guides are not intended to be a contract with Ferris. The information in this guide is subject to change and is aligned with the catalog year listed above. Students should contact their community college and/or Ferris to keep informed of changes. Students' final responsibility for verifying all transfer information lies with the student. Please refer to the for the most current curriculum.

Partners may contact the Office of Transfer and Secondary School Partnerships with questions or updates at .