

# FERRIS STATE UNIVERSITY

## CHEMISTRY EDUCATION TRANSFER GUIDE FOR MOTT COMMUNITY COLLEGE

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**Ferris Program:** Chemistry Education

**Degree Type:** Bachelor of Science

**Ferris College:** College of Arts, Sciences, and Education

**Transfer School:** Mott Community College (MOTTCC)

**Consortium Eligible:** No

**Total Credits Required:** 142-145

**Catalog Year:** 2022-2023

### GENERAL EDUCATION REQUIREMENTS – 33-34 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 105 or COMM 121	Interpersonal Communication or Fundamentals of Public Speaking	3	COMM 140 or COMM 131
ENGL 150	English 1	3	ENGL 101 or ENGL 103
ENGL 250	English 2	3	ENGL 102
ENGL 321	Advanced Composition	3	No Equivalent

#### Quantitative Literacy

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
MATH 114 or MATH 115	Quantitative Reasoning for Professionals 2 or Intermediate Algebra	4 or 3	No Equivalent or MATH 120

#### Natural Sciences Competency

Two courses are required with a minimum of 6 credits: must have at least one lab course. These courses are met in College Requirements.

#### 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. The courses depend on the chosen education minor, please see your advisor prior to registering for courses.

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Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
Varies	Culture Electives (Consult Advisor)	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. The courses depend on the chosen education minor, please see your advisor prior to registering for courses.

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
Varies	Self and Society Electives (Consult Advisor)	9	Varies

## COLLEGE REQUIREMENTS – 109-111 Credits Required

Choose one teaching minor; must not be the same as secondary education major.

### Major Courses

35 Credits Required. These courses are used to calculate the major 2.50 GPA requirement.

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
CHEM 121	General Chemistry 1	5	CHEM 131 and CHEM 131L and CHEM 131R
CHEM 122	General Chemistry 2	5	CHEM 132 and CHEM 132L and CHEM 132R
CHEM 231	Quantitative Analysis	4	No Equivalent
CHEM 317	Instrumental Analysis	3	No Equivalent
CHEM 321	Organic Chemistry 1	5	CHEM 237
CHEM 322	Organic Chemistry 2	5	CHEM 238
CHEM 364	Biochemistry	4	No Equivalent
CHEM 451	Introduction to Physical Chemistry	4	No Equivalent

### Additional Requirements

12-14 Credits Required. These courses are used to calculate the major 2.50 GPA requirement.

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
PHYS 211 and PHYS 212 or PHYS 241 and PHYS 242	Introductory Physics 1 and Introductory Physics 2 or General Physics 1 and General Physics 2	8 or 10	PHYS 281 and PHYS 282 or PHYS 287 and PHYS 288

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Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
MATH 220	Analytical Geometry and Calculus 1	4	MATH 170

## Secondary Education

24 Credits Required. These courses are not used to calculate the major 2.50 GPA Requirement. The current secondary education minor choices are: Biology (BIO); English (ENG); Geography (GEO); History (HIED); Mathematics (MTH); Physical Education (PHED); Political Science (PSC); Speech Communication (SPCO).

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
Varies	Secondary Education Subject Area Minor Credits	24	No Equivalent

## SECONDARY EDUCATION PROFESSIONAL SEQUENCE – 38 Credits Required

### Level 1 Courses

11 Credits Required. Students may only retake two of the four Level 1 courses. Students may not repeat any education course more than once. These courses are used to calculate the professional sequence 2.75 GPA requirement.

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
EDUC 161	Foundations of Education	3	No Equivalent
EDUC 251	Human Growth Development	3	PSYC 291
EDUC 261	Children's Healthy Living	2	No Equivalent
EDUC 289	Principles of Teaching and Learning	3	No Equivalent

### Level 2 Courses

15 Credits Required. Prior to enrolling in any Level 2 courses, all students must meet the Michigan Department of Education (MDE) requirements, currently Council for the Accreditation of Educator Preparation (CAEP); see advisor for options. Complete all Level 1 courses with a minimum of 2.50 GPA with no grade lower than a C, have a 2.50 cumulative GPA, and complete a Level 2 application. Students may not repeat any education course more than once. These courses are used to calculate the professional sequence 2.75 GPA requirement.

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
EDUC 338	Secondary General Methods 1	4	No Equivalent
EDUC 415	Teaching Special Needs	3	No Equivalent
EDUC 438	Secondary General Methods 2	5	No Equivalent

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Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
EDUC 443	Teaching Reading in Secondary Areas	3	No Equivalent

## Level 3 Courses

12 Credits Required. Prior to enrolling in Level 3 courses, all students must pass the Michigan test for teacher certification in their subject area. Students must obtain the appropriate GPA for their major/minor as established by each department. A 2.75 GPA is required in the professional education course sequence. A 2.50 cumulative GPA is also required before student teaching. Students may not repeat any education course more than once. These courses are used to calculate the professional sequence 2.75 GPA requirement.

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
EDUC 499	Student Teaching	12	No Equivalent

## PROGRAM CONTACT INFORMATION

School of Education  
(231) 591-5361

(810) 762-0461

## ADMISSION REQUIREMENTS

### New Student Admission Requirements

- 2.50 High School GPA (on a 4.00 scale)
- Minimum Composite ACT Score of 17/SAT 900

### Transfer Student Admission Requirements

- 2.00 Overall GPA (on a 4.00 scale)
- Students transferring with completed majors or minors in Education must meet GPA requirements as established by each program at Ferris to be presented to the Michigan Department of Education for certification.

## 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

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- Submit test scores (if required)
  - ACT Scores; go to the - Ferris State University School Code: 1994
  - SAT, CLEP and AP Scores; 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 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 .