

**Ferris Program:** Pharmaceutical Sciences

**Degree Type:** Bachelor of Science

**Ferris College:** College of Pharmacy

**Transfer School:** Grand Rapids Community College (GRCC)

**Consortium Eligible:** No

**Total Credits Required:** 121-123

**Catalog Year:** 2024-2025

## GENERAL EDUCATION REQUIREMENTS – 44 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 [general education page](#) 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	COM 135 or COM 131
ENGL 150	English 1	3	EN 101
ENGL 250	English 2	3	EN 102
ENGL 321	Advanced Composition	3	No Equivalent

### Quantitative Literacy Competency

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
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 121	Introduction to General Chemistry	5	CHM 130 and CHM 131
CHEM 122	Introductory Physics 1	5	CHM 140 and CHM 141

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## Culture 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
SOCY 121	Introductory Sociology	3	SO 251
PSYC 150	Introduction to Psychology	3	PY 201
Varies	Self and Society Electives	3	Varies

## COLLEGE REQUIREMENTS – 77-79 Credits Required

### Major Courses

77-79 Credits Required.

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
BIOL 121	General Biology 1	4	BI 151 and BI 152
BIOL 122	General Biology II	4	BI 151 and BI 152
MATH 251	Stats for Life Sciences	3	MA 215
BIOL 286	General Microbiology	3	No Equivalent
BIOL 321	Human Physiology-Anatomy 2	4	No Equivalent
CHEM 321	Organic Chemistry 1	5	CHM 260 and CHM 261
BIOL 322	Human Physiology-Anatomy 2	4	No Equivalent
CHEM 322	Organic Chemistry 2	5	CHM 270 and CHM 271
PHAR 515	Pharmacy & Health Care System 1	3	No Equivalent
PHAR 516	Pharmacy & Health Care System 2	3	No Equivalent

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Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
PHAR 519	Foundations- Pharmacotherapy 1	3	No Equivalent
PHAR 520	Foundations- Pharmacotherapy 2	3	No Equivalent
PHAR 523	Dosage Forms & Biopharmaceutic	4	No Equivalent
PHAR 524	Dosage Forms & Pharmacokinetic	4	No Equivalent
PHAR 526	Technology in Healthcare	1	No Equivalent
PHAR 531	Over-the-Counter Pharmacotherapy	3	No Equivalent
PHAR 587	Pharmacy Skills & Patient Care 1	3	No Equivalent
PHAR 588	Pharmacy Skills & Patient Care 2	2	No Equivalent

Choose 13 of 15 Credits:

Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
PHAR 593	Medication Distrib Comm IPPE	2	No Equivalent
PHAR 619	Integrated Pharmacotherapy 1	4	No Equivalent
PHAR 620	Integrated Pharmacotherapy 2	4	No Equivalent
PHAR 621	Integrated Pharmacotherapy 3	4	No Equivalent
PHAR 622	Integrated Pharmacotherapy 4	4	No Equivalent
PHAR 623	Integrated Pharmacotherapy 5	4	No Equivalent
PHAR 624	Integrated Pharmacotherapy 6	4	No Equivalent
PHAR 640	Drug Lit, Informatics & Biostats	3	No Equivalent
PHAR 651	Introduction to Public Health	2	No Equivalent
PHAR 653	Topics in Nutrition Biochem	2	No Equivalent

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Ferris Course	Ferris Course Title	Ferris Credit Hours	Transfer Course
PHAR 654	Current Controversies in Health Care	2	No Equivalent
PHAR 658	PHarmaceutical Science Seminar	2	No Equivalent
PHAR 659	Botanical Supple - Alt Therapy	2	No Equivalent
PHAR 664	Medicinal Chemistry Research	2	No Equivalent
PHAR 665	Select Topics in Medicinal Chemistry	2	No Equivalent
PHAR 667	Carcinogenesis	2	No Equivalent
PHAR 673	Intro Pharm Research Exp	2	No Equivalent
PHAR 674	Biosynthesis of Natural Products	2	No Equivalent
PHAR 675	History of Pharmacy	2	No Equivalent
PHAR 676	Leadership Development	2	No Equivalent
PHAR 677	Patient Safety in Med Use System	2	No Equivalent
PHAR 678	Veterinary Pharmacy	2	No Equivalent
PHAR 679	Drug Discovery	2	No Equivalent
PHAR 691	Direct Patient Care IPPE 1	0.5	No Equivalent
PHAR 693	Med Distrib Health System IPPE	2	No Equivalent

## PROGRAM CONTACT INFORMATION

College of Engineering Technology  
 Welding Engineering Technology Programs  
 (231) 591-2511  
[WeldingDegrees@Ferris.edu](mailto:WeldingDegrees@Ferris.edu)

Ferris Statewide - GRCC  
 (616) 451-4777  
[FSUGR@Ferris.edu](mailto:FSUGR@Ferris.edu)

## ADMISSION REQUIREMENTS

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## MORE INFORMATION

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 [free application](#).
- Submit official transcripts
  - Submit official transcripts from every school attended to [Transfer@Ferris.edu](mailto:Transfer@Ferris.edu)
  - 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 [ACT website](#) - Ferris State University School Code: 1994
  - SAT, CLEP and AP Scores; go to the [College Board website](#) - 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 [Transfer Resource page](#).

\*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.

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## Transfer Equivalencies Tools

The transfer equivalencies link is located in the Transfer Resources section at [transfer.ferris.edu](https://transfer.ferris.edu).

### 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 [Ferris catalog](#) for the most current curriculum.

Partners may contact the Office of Transfer and Secondary School Partnerships with questions or updates at [TransferGuidesArticulations@Ferris.edu](mailto:TransferGuidesArticulations@Ferris.edu).