

In the Medical Laboratory Technician and Medical Laboratory Science programs, you'll learn how to perform and interpret the results of tests on the samples that were collected by phlebotomists and others. You'll learn how to provide blood products for patients needing a transfusion, how to identify which bacteria are causing an infection, how to identify the blood cells that cause leukemia, and how to detect and measure chemicals in the blood such as cholesterol, drugs, and hormones. Then you'll be assigned to a clinical affiliate for more practice in an actual clinical laboratory.

**Communication Competency Course Requirements**

FSU Course	FSU Course Title	FSU Cr. Hrs.	NMC Equiv.	NMC Course Title	NMC Cr. Hrs.
ENGL 150	English 1	3	ENG 111	English Composition	4
ENGL 250	English 2	3	ENG 112	English Composition	4

**Quantitative Literacy Course Requirements**

FSU Course	FSU Course Title	FSU Cr. Hrs.	NMC Equiv.	NMC Course Title	NMC Cr. Hrs.
MATH 115 or MATH 117	Intermediate Algebra or Contemporary Mathematics	3	MTH 111 or MTH 120	Intermediate Algebra Mathematical Explorations	4

**Natural Sciences Competency Course Requirements - 1 course with lab**

FSU Course	FSU Course Title	FSU Cr. Hrs.	NMC Equiv.	NMC Course Title	NMC Cr. Hrs.
BIOL 108	Medical Microbiology	3	BIO 208 And BIO 208L	Microbiology And Microbiology Lab	4

**Self and Society Competency Course Requirements – Minimum 3 credits**

FSU Course	FSU Course Title	FSU Cr. Hrs.	NMC Equiv.	NMC Course Title	NMC Cr. Hrs.
Varies	FSU General Education – Self and Society Competency	3	Varies	Varies	3

**Culture Competency Course Requirements - Minimum 3 credits**

FSU Course	FSU Course Title	FSU Cr. Hrs.	NMC Equiv.	NMC Course Title	NMC Cr. Hrs.
Varies	FSU General Education - Culture Electives	3	Varies	Varies	3

**Additional General Education Course Requirements**

FSU Course	FSU Course Title	FSU Cr. Hrs.	NMC Equiv.	NMC Course Title	NMC Cr. Hrs.
COMM 105 or COMM 121 or COMM 221	Interpersonal Communication or Fundamentals of Public Speaking or Small Group Decision Making	3	No Equivalent  COM 111  No Equivalent	No Equivalent  Public Speaking  No Equivalent	4
BIOL 205	Human Anatomy and Physiology	5	BIO 227L And BIO 228L	Anatomy & Physiology 1 And Anatomy & Physiology 2	8
CHEM 114	Introduction to General Chemistry	4	No Equivalent	No Equivalent	No Equivalent
CHEM 214	Fundamentals of Organic Chemistry	4	No Equivalent	No Equivalent	No Equivalent

**Ferris State University General Education Program**

Students are encouraged to work with an advisor to select appropriate general education courses

**Major Requirements – 39 Credits Required**

FSU Course	FSU Course Title	FSU Cr. Hrs.	NMC Equiv.	NMC Course Title	NMC Cr. Hrs.
CLLS 101	Clinical Laboratory Science Orientation	1	No Equivalent	No Equivalent	No Equivalent
CLLS 122	Introduction to Specimen Collection	2	ELEC	General Elective	2
CLLS 123	Specimen Collection Laboratory	1	ELEC	General Elective	1
CLLS 216	Clinical Chemistry	3	No Equivalent	No Equivalent	No Equivalent
CLLS 217	Clinical Chemistry Laboratory	1	No Equivalent	No Equivalent	No Equivalent
CLLS 218	Body Fluid Analysis	1	No Equivalent	No Equivalent	No Equivalent
CLLS 219	Hemostasis	1	No Equivalent	No Equivalent	No Equivalent
CLLS 220	Body-Fluid Hemostasis Laboratory	1	No Equivalent	No Equivalent	No Equivalent
CLLS 231	Hematology	2	No Equivalent	No Equivalent	No Equivalent
CLLS 232	Hematology Laboratory	1	No Equivalent	No Equivalent	No Equivalent
CLLS 236	Diagnostic Microbiology	2	No Equivalent	No Equivalent	No Equivalent
CLLS 237	Diagnostic Microbiology Laboratory	2	No Equivalent	No Equivalent	No Equivalent
CLLS 241	Medical Virology/Mycology/Parasitology	2	No Equivalent	No Equivalent	No Equivalent
CLLS 242	Medical Virology/Mycology/Parasitology Laboratory	1	No Equivalent	No Equivalent	No Equivalent
CLLS 252	Introduction to Clinical Immunology	2	No Equivalent	No Equivalent	No Equivalent
CLLS 253	Introduction to Clinical Immunology Laboratory	1	No Equivalent	No Equivalent	No Equivalent
CLLS 256	Stimulated Laboratory for MLT	3	No Equivalent	No Equivalent	No Equivalent
CLLS 258	Immunohematology	2	No Equivalent	No Equivalent	No Equivalent
CLLS 259	Immunohematology Laboratory	1	No Equivalent	No Equivalent	No Equivalent
CLLS 281	Clinical Laboratory Science Theory for MLT	1	No Equivalent	No Equivalent	No Equivalent
CLLS 292	Clinical Experience 1 for MLT	6	No Equivalent	No Equivalent	No Equivalent
CLLS 293	Clinical Experience 2 for MLT	5	No Equivalent	No Equivalent	No Equivalent

**Core Curriculum – 5 Credits Required**

FSU Course	FSU Course Title	FSU Cr. Hrs.	MCC Equiv.	MCC Course Title	MCC Cr. Hrs.
COHP 100	Orientation to Medical Vocabulary	1	No Equivalent	No Equivalent	No Equivalent
COHP 101	The U.S. Health Care Systems	3	No Equivalent	No Equivalent	No Equivalent
COHP 102	Safety Issues in Health Care	1	No Equivalent	No Equivalent	No Equivalent

<b>Total Credits Required for Degree</b>	<b>81</b>
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**Program Contact Information:****Main Campus, Big Rapids****College of Health Professions**(231) 591-2270 | [College of Health Professions Email](#) | [College of Health Professions Webpage](#)[Transfer Partnerships](#)**Delivery Locations**

This degree and the Ferris courses are offered at the following locations:

- Ferris State University, Big Rapids Campus, Big Rapids Mi
- 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)

**General Admission Criteria****Admission Requirements to the University****Transfer Students**

- Must have a 2.0 GPA

**Admission Requirements to the Professional Sequence****Transfer Students Total community college credits, Ferris credits, and total credits required for degree.**

- Must be admitted to the University.
- Must have earned a minimum grade of “C” or higher in the following” MATH 115 or 117, CHEM 114, CHEM 214, BIOL 205, BIOL 108 or BIOL 286

- Must have a 2.5 GPA
- All MATH, BIOL, and CHEM courses must meet the above requirements within two attempts. A withdrawal, W grade counts as an attempt.

### **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.

### **Online Learning**

Select courses 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). The "Online Readiness Tutorial" is required for students who register for an online *course* or are completing an online *degree*. Students must demonstrate competency in Blackboard skills. This may be done by taking a tutorial and quiz, or, for students who have already taken and passed online courses, they can submit a waiver request. Students should check with the department that offers the class to determine its particular needs and/or the Ferris advisor regarding registration for online course work.

### **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 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.