Biology/Forensic Biology

Bachelor of Science Degree

Grand Rapids Community College Transfer Guide

The Bachelor of Science in Biology (Forensic Biology) is primarily designed to prepare students for admission into graduate programs in forensic biology or forensic chemistry, as well as entry into the work force. Students in the Forensic Biology program receive extensive training in the collection and analysis of biological evidence, in both laboratory and field settings, and techniques in isolation, purification, and amplification of DNA. Classroom laboratories and field exercises develop skills in documentation, collection and analysis of insects, plants, and other biological evidence associated with an investigation. Students experience the process of determination of the time of death and the ability to answer other forensic questions, as well as skills to identify skeletal remains and evaluate trauma.
Graduates with this degree may be eligible for entry-level positions in forensic laboratories, medical examination offices, and law enforcement agencies. It should be stressed, however, that further graduate-level education is often required for students to become employable.
The requirements of the Forensic Biology program are based on the general requirements of the Bachelor of Science in Biology, with specific modifications and additions for forensic biology students. Specific courses such as Forensic Biology, Human Anatomy and Physiology, Microbiology, Genetics, Forensic DNA Analysis, Statistics, Calculus, Inorganic Chemistry, Organic Chemistry, Forensic Chemistry, Biochemistry, Physics, and Criminal Justice are prescribed to fulfill the requirements of the degree and to best prepare students for future work in the field.

General Admission Criteria

To be admitted to this degree program, students must have completed at least 12 credits at the time of application with a minimum 2.0 overall GPA including an English and mathematics course, or they must provide their high school records and ACT /SAT scores for admission review. Official transcripts from all accredited colleges/universities must be submitted with the Ferris application.

Course Requirements

Grand Rapids Community College

Course	Ferris Equiv.	Ferris Course Title	Cr. Hrs.
EN 100	ENGL 150	English 1	3
or			
EN 101			
EN 102	ENGL 250	English 2	3
EN 249	ENGL 311	Advanced Technical Writing	3
COM 131	COMM 121	Fundamentals of Public Speaking	3
CJ 110	CRIM 110	Introdcution to Criminal Justice	3
MA 133	MATH 220	Analytical Geometry – Calculus 1	4
MA 215	MATH 251	Statistics for the Life Sciences	3
BI 151	BIOL 121	General Biology 1	8
and	**and**	**and**	
BI 152**	BIOL 122	General Biology 2	
BI 121	BIOL 205	Human Anatomy and Physiology	5
and			
BI 122			
CHM 130	CHEM 121	General Chemistry1	4
and			
CHM 131			
CHM 140	CHEM 122	General Chemistry 2	4
and			
CHM 141			
CHM 260	CHEM 321	Organic Chemistry 1	5
and			
CHM 261			
CHM 270	CHEM 322	Organic Chemistry 2	5
and			
CHM 271			
CHM 280	CHEM 231	Quantitative Analysis	4
PH 125	PHYS 211	Introductory Physics 1	4
PH 126	PHYS 212	Introductory Physics 2	4
GRCC	*VARIES*	Cultural Enrichment Electives (one must be at FSU 200+ level)	9

Ferris State University

Course	Ferris Course Title	Cr. Hrs.
FSU	Biology Electives (see FSU advisor)	3-6
BIOL 207	Forensic Biology	4
BIOL 286	General Microbiology	3
or	**or**	
BIOL 386	Microbiology and Immunology	5
BIOL 375	Principles of Genetics	3
BIOL 346	Ecological Assessment	3
or	**or**	
BIOL 347	Environmental Conservation	
or	**or**	
BIOL 442	Ecology	
BIOL 407	Forensic DNA Analysis	3
BIOL 460	Current Topics in Biology	2
CHEM 207	Science and Crime	3
CHEM 324	Fundamentals of Biochemistry	3
or	**or**	
CHEM 364	Biochemistry	4
CRIM 301	Investigation Issues	3
	Credits Required for Degree	**121**

Contact Information

Big Rapids Campus
College of Arts & Sciences
http://www.ferris.edu/HTMLS/colleges/
Jenice Winowiecki, Biology Advisor
(231) 591-2555 or wino2@ferris.edu
www.ferris.edu/transferservices

GRCC	*VARIES*	Social Awareness Electives (one must be FSU 200+ level) (must come from 2 different subject areas)	9

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 take entire sequence at Community College or take the entire sequence at Ferris State University in order to earn course credit.

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)

Transfer Student Orientation

All new students to Ferris State University are required to complete an orientation. Orientation for incoming freshmen is a one-day session that occurs on campus and includes class registration. Eligible transfer students have the option of completing an online orientation or attending an on campus session.

Advising Notes

It is recommended that potential students 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 any electives or general education classes shown above could 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 towards graduation.

Online Learning

Orientation is required for students who register for an online ***course*** or are completing an online ***degree***. Students must demonstrate competency in FerrisConnect 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.

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.

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 the effective and/or revised date on the bottom of the guide.