

Associate in Science

2018-2019 Catalog

Concentration in Pre-Molecular Biotechnology

Award Granted Upon Completion: Associate in Science

Credits/Contacts Required: 61/75

Major code: 02/226

CIP Code: 240101

Description

The Pre-Molecular Biotechnology Degree is designed for students who want to transfer and complete degrees in Biochemistry, Biotechnology, Genetics, and Molecular Biology. Specific requirements for transfer to the Biotechnology Degree Program at Ferris State University are noted below. In addition for preparation for transfer, this program provides students with a strong general education background. By satisfying the program requirements listed below, a student also satisfies the Michigan Transfer Agreement requirements. ☼

General Education Requirements – Min 32 credits @

		<u>Cr</u>
ENGL-101	Rhetoric & Composition	3
XXXX-xxx	Communication Elective ENGL-102 or 145; COMM-103, 104, or 120	3
MATH-141	Analytical Geometry & Calc I	5
BIOL-110	Evolution & Diversity	4
CHEM-110	General Chemistry I	5
PSYC-201	Intro to Psychology	3
XXXX-xxx	Social & Behavioral Science Electives * (ECON-131 & 132 are desirable electives for the Biotechnology degree.)	3
XXXX-xxx	Humanities Electives *	6

☼ This degree requires fulfillment of the Michigan Transfer Agreement General Education requirements. All courses used to fulfill the MTA must have a grade of "C" or higher.

Requirements – Min 29 credits @

		<u>Cr</u>
BIOL-112	Cells and Molecules	4
CHEM-112	General Chemistry II	5
CHEM-201	Organic Chemistry I	4
CHEM-202	Organic Chemistry II	4
MATH-210	Introduction to Statistics	4
PHYS-201	Elements of Physics I ***	4
PHYS-202	Elements of Physics II ***	4

Suggested Sequences per Semester

		<u>Cr / Ct</u>
First Semester		
BIOL-110	Evolution & Diversity	4/6
CHEM-110	General Chemistry I	5/7
ENGL-101	Rhetoric & Composition	3/3
MATH-141	Analytical Geometry & Calculus I	5/5
		17/21
Second Semester		
BIOL-112	Cells & Molecules	4/6
CHEM-112	General Chemistry II	5/7
MATH-210	Introduction to Statistics	4/4
XXXX-xxx	Communication Elective	3/3
		16/20
Third Semester		
CHEM-201	Organic Chemistry I	4/6
PHYS-201	Elements of Physics I ***	4/5
PSYC-201	Introduction to Psychology	3/3
XXXX-xxx	Humanities *	3/3
		14/17
Fourth Semester		
CHEM-202	Organic Chemistry II	4/6
PHYS-202	Elements of Physics II ***	4/5
XXXX-xxx	Social & Behavioral Science *	3/3
XXXX-xxx	Humanities *	3/3
		14/17

@ Many courses require specific placement scores or prerequisite courses. Students not meeting the prerequisites for their required courses may need to take more time and more credits to fulfill the degree requirements.

* Students must choose courses in Social & Behavioral Sciences and Humanities, each from two different subject areas to meet MTA. See advisor for details.

*** Students may take PHYS-205 & PHYS-206 as an alternative.

NOTES Actual courses and sequence vary with transfer institution and undergraduate degree specialization. It is in the student's best interest to review transfer guides for specific university and program requirements. Students should regularly consult their transfer institution as well as their Bay College advisor prior to scheduling courses.

- Students transferring to FSU Biotechnology program only need to complete MATH-110 & MATH-111, and are not required to complete PHYS-202.
- Due to credit transfer limits, students transferring to NMU are advised to complete either Organic Chemistry or Physics at NMU. These students would be better served by completing the general AS degree.