

Brescia University - Academic Four Year Plan

BIOLOGY

*Optometry undergrad requirements

FALL - YEAR 1 - SPRING

*ENG 101	Writing I	(3)	*ENG 102	Writing II	(3)
*BIO 105	Ecology & Evolution	(3)	*BIO 115	Molecular/Cellular Biology	(3)
*BIO 105L	Ecology & Evolution Lab	(1)	*BIO 115L	Molecular/Cellular Biology Lab	(1)
*CHE 101	General Chemistry I	(3)	*CHE 102	General Chemistry II	(3)
*CHE 101L	General Chemistry I Lab	(1)	*CHE 102L	General Chemistry II Lab	(1)
GER		(3)	GER		(3)
BU 101	Intro to Brescia University	(1)	GER		(3)
Total		(15)	Total		(17)

FALL - YEAR 2 - SPRING

*BIO 201	Human Anatomy & Physiology	(3)	*BIO 215	Biological Diversity	(3)
*BIO 201L	Human Anatomy & Phys Lab	(1)	*BIO 215L	Biological Diversity Lab	(1)
*CHE 301	Organic Chemistry I	(3)	*CHE 302	Organic Chemistry II	(3)
*CHE 301L	Organic Chemistry I Lab	(1)	*CHE 302L	Organic Chemistry II Lab	(1)
*MTH 211	Calculus I	(4)	GER		(3)
*MTH 211L	Calculus I Lab	(0)	GER		(3)
GER		(3)	GER		(3)
Total		(15)	Total		(17)

FALL - YEAR 3 - SPRING

*BIO 300	Genetics	(3)	*BIO —	Upper Level Biology	(3)
*BIO 300L	Genetics Lab	(1)	*BIO —L	Upper Level Biology Lab	(1)
*PHS 201	General Physics I	(3)	*PHS 202	General Physics II	(3)
*PHS 201L	General Physics I Lab	(1)	*PHS 202L	General Physics II Lab	(1)
MTH 250	Statistics	(3)	GER		(3)
GER		(3)	GER		(3)
GER		(3)	GER		(3)
Total		(17)	Total		(17)

FALL - YEAR 4 - SPRING

*BIO —	Upper Level Biology	(3)	*BIO —	Upper Level Biology	(3)
*BIO —L	Upper Level Biology Lab	(1)	BIO —L	Upper Level Biology Lab	(1)
*BIO —	Upper Level Biology	(3)	BIO 411	Biology Seminar	(1)
*BIO —L	Upper Level Biology Lab	(1)	GER/Elective		(3)
GER/Elective		(3)	GER/Elective		(3)
GER/Elective		(3)	GER/Elective		(3)
GER/Elective		(3)			
Total		(17)	Total		(14)

Additional pre-requisites for optometry (based on entrance requirements for Southern School of Optometry (Memphis), Indiana University, and University of Alabama at Birmingham:

Required GER courses include: Art or music appreciation, Speech, two semesters of a foreign language, Introduction to psychology, principles of sociology, introduction to computer science

Required science courses: Principles of Biology (substitute Bio105/105L), Zoology (substitute Bio215/215L), Microbiology (Bio311/311L), Physiology (Bio305/305L0

Elective science courses (6/7): Genetics (Bio300/300L), Immunology (Bio330), Advanced Cell Biology (Bio401)

Random thoughts

- If students are registering in Mth 005 or 006, they should not take Chm 101 (they will not pass it). They can take Mth 111 concurrently with Chm 101.
- If students are capable of taking Calculus in their freshman year, they are welcome to sign up for it then.
- Students who either must delay Chm 101 or choose to delay it need to be aware that the result is that they likely will be taking Organic Chemistry, Physics, and an upper-level biology course each semester of their junior year. This is survivable but not a good idea.
- Between the minimum GER and the Biology major, students will end up with 35 of the 42 required credits of 300-level or above courses. They should start thinking about taking an extra lab class and an extra elective to make up the remaining seven credits.
- Students coming in as Pre-Pharmacy, Pre-Nursing, or Medical Technology have fewer requirements than the full Biology major, especially if they are planning on a completion program at another school. They should be aware, however, that entry into these programs is highly competitive. They should strongly consider taking the additional courses (e.g., Ecology and Evolution in the freshman year) in order to have the full major as a backup plan.