



PROGRAM: Biology: Molecular Bio and Biomedicine (MBB)

This plan is an example of how you can earn your degree in four years.
You may work with your advisor to customize the plan to fit your circumstances.

2020-21

FALL - 2020	cr.	SPRING - 2021	cr.	J.TERM & SUMMER	cr.
FYS	3	INT 1053: Soundings II	0.5		
BIO 1121: Biology I	4	SCI 1230: Pathways to Science	1		
INT 1051: Soundings I	1	BIO 1122: Biology II	4		
CHE 1051: Chemistry I	4	CHE 1052: Chemistry II	4		
ENG 1061: English Comp	3	ENG 1070: Effective Speaking	3		
		Gen Ed*	3		
		Quantitative Reasoning Exam			

NOTES: Total credits after Year One (THINK 30): **30.5**
If students have not taken high school chemistry, or placed below Precalculus in their math placement they may consider starting CHE 1051/1052 during their second year.

2021-22

FALL - 2021	cr.	SPRING - 2022	cr.	J.TERM & SUMMER	cr.
ENG 2260: Touchstones	3	BIO 2010: Cell and Molecular Bio	4		
CHE 2111: Organic Chem I (WI)	4	MAT 2036: Biostatistics (CI)	4		
BIO 2125: Fundamentals of Microbiology	4	Gen Ed*	3		
SCI 2100: Science Colloquium	1	Gen Ed*	3		
		Elective**	3		
Information Literacy Exam					

NOTES: Total credits after Year Two (THINK 60): **62.5**

***Menu of Gen Ed courses**

- 6 cr. Aesthetic Understanding
- 6 cr. Social & Behavioral Understanding
- 6 cr. World Views

** While many students take additional upper-level electives in their program beyond those required, electives could be any courses offered at Castleton University.

2022-23

FALL - 2022	cr.	SPRING - 2023	cr.	J.TERM & SUMMER	cr.
INT 3054: Jr. Soundings	0.5	BIO 3070: Genetics	4		
BIO 3060: Ecology -or- BIO 3065: Plant Ecology (CI)	4	Elective **	4		
PHY 2110: Physics I	4	PHY 2210: Physics II	4		
CHE 3011: Biochemistry I	3	Elective **	3		
Gen Ed*	3	Gen Ed*	3		
		<i>submit Application for Degree</i>			

NOTES:

Total credits after Year Three (THINK 90): **93***It is required to take either BIO 3060 (Fall 2022 or Fall 2023) or BIO 3065 (Fall 2023)***2023-24**

FALL - 2023	cr.	SPRING - 2024	cr.	J.TERM & SUMMER	cr.
BIO 4030: Evolution	4	Elective** or Research	3		
Upper-level Elective***	3	Upper-level Elective***	3		
Elective** or Research	3	Gen Ed*	3		
Elective**	3	Elective**	3		
		Elective**	3		

NOTES: *Need at least 120 cr. to graduate*Total credits after Year Four (THINK 120): **121****Upper-level major elective courses include (Choose 2):**

Fall 2022: BIO 3151: Physiology of Exercise; BIO 3240: Advanced Human Physiology

Spring 2023: BIO 3090: Virology; BIO 3151: Physiology of Exercise

Fall 2023: BIO 3151: Physiology of Exercise; BIO 4035: Advanced Molecular Biology

Spring 2024: BIO 3151: Physiology of Exercise; BIO 4360: Immunology

Periodically: BIO 3210 : Developmental Biology

Research: In addition to the above requirements, we strongly recommend that students initiate an internship or research project in biology.**Chemistry minor:** This minor is useful in increasing the breadth of knowledge of for this major.