



### PROGRAM: Biology

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		
		<i>Quantitative Reasoning Exam</i>			

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 & 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		
Gen Ed*	3	Elective**	3		
<i>Information Literacy Exam</i>					

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	Upper-level Elective***	3		
PHY 2110: Physics I	4	Elective**	3		
Gen Ed*	3	Gen Ed*	3		
Upper-level Elective***	3	Research or Internship	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		
Elective**	3	Upper-level Elective***	3		
Elective** or Research	3	Elective**	3		
Upper-level 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 12 credits):**

Fall 2022: BIO 3013: Biogeochemistry; BIO 3151: Physiology of Exercise; BIO 3240: Advanced Human Physiology

Spring 2023: BIO 3030: Ecology of Water; BIO 3090: Virology; BIO 3160: Animal Behavior; BIO 3151: Physiology of Exercise; BIO 3350: Natural History of the Mojave Desert; BIO 3410: Nutrition Assessment; CHE 3011: Biochemistry I (SI)

Fall 2023: BIO 3151: Physiology of Exercise; BIO 4035: Advanced Molecular Biology; CHE 3011: Biochemistry I (SI)

Spring 2024: BIO 3160: Animal Behavior; BIO 3151: Physiology of Exercise; BIO 4250: Ecotoxicology (SI/WI); BIO 4360: Immunology (SI); CHE 3012: Biochemistry II

Periodically or Summer: BIO 3210: Developmental Biology; BIO 4260: Field Techniques and Current Topics in Wildlife Biology (summer)

**Research:** In addition to the above requirements, we strongly recommend that students initiate an internship or research project in biology.