



### PROGRAM: Chemistry

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	.5		
ENG 1061 English Comp.	3	CHE 1052 Chemistry II	4		
INT 1051 Soundings I	1	MAT 1531 Calculus I	4		
CHE 1051 Chemistry I	4	ENG 1070 Effective Speaking	3		
MAT 1360 Precalculus with Appl.	4	Gen Ed*	3		
		SCI 1230 Pathways to Science	1		
		Quantitative Reasoning Exam			

NOTES: If students are ready for Calculus I, they should take it their first semester.

Total credits after Year One (THINK 30): 30.5

#### 2021-22

FALL - 2021	cr.	SPRING - 2022	cr.	J.TERM & SUMMER	cr.
ENG 2260 Touchstones	3	CHE 2111 Organic Chem II (WI)	4		
CHE 2111 Organic Chem I (WI)	4	PHY 2210 Physics II	4		
PHY 2110 Physics I	4	Gen Ed*	3		
SCI 2100 Science Colloquium	1	Elective**	3		
CHE 1532 Calculus II	4				
Information Literacy Exam					

NOTES:

Total credits after Year Two (THINK 60): 60.5

#### \*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	.5	CHE 3020 Analytical Chem (CI)	4		
CHE 3035 Fund. Phys. Chem.	4	CHE 3150 Inorganic Chem (SI)	3		
BIO 1121 Biology I -or- MAT 2036 Biostatistics	4	Gen Ed*	3		
Gen Ed*	3	Gen Ed*	3		
Elective**	3	Elective**	3		
SCI 2100 Science Colloquium	1				
		submit Application for Degree			

NOTES:

Total credits after Year Three (THINK 90): 92

SCI 2100 is suggested to be taken more than once.

Upper-level major electives may be taken during semesters other than those shown here in order to take courses when they are offered (see \*\*\* below).

**2023-24**

FALL - 2023	cr.	SPRING - 2024	cr.	J.TERM & SUMMER	cr.
Upper-level major elective*** -or- Research	3	Upper-level major elective***	4		
Upper-level major elective***	4	Elective** or Research	3		
Gen Ed*	3	Elective**	3		
Elective**	3	Elective**	3		
Elective**	3				
SCI 2100 Science Colloquium	1				

NOTES: Need at least 120 cr. to graduate

Total credits after Year Four (THINK 120): 122**\*\*\*Upper-level major elective courses include (Choose 3):**

Fall 2022: CHE 3011: Biochemistry I; CHE 3013: Biogeochemistry

Spring 2023: CHE 3030: Aqueous Geochemistry

Fall 2023: CHE 3011: Biochemistry I; CHE 4010: Environmental Kinetics and Chemical Fate

Spring 2024: CHE 3012: Biochemistry II

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