

Cleveland State University  
College of Sciences and Health Professions  
Associate of Science to Bachelor of Science in Biology Pathway

## SUGGESTED SEQUENCE AT TRI-C

### First Year

Fall Semester	Credits	Spring Semester	Credits
ENG 1010/101H College Composition I (grade of C or higher required)	3	ENG 1020/102H College Composition II (grade of C or higher required)	3
BIO 1500 Principles of Biology I	4	BIO 1510 Principles of Biology II	4
Social & Behavioral Science Elective	3	Arts & Humanities Elective	3
General Elective** (Recommended: Math pre-reqs for CHEM 1010 or CHEM 1300 if needed)	3	CHEM 1010 Intro to Inorganic Chemistry <b>OR</b> General Elective** (if CHEM test is passed)	3
General Elective	3	General Elective** (Recommended: Math pre-reqs for CHEM 1010 or CHEM 1300 if needed)	3
<b>Semester Total</b>	<b>16</b>	<b>Semester Total</b>	<b>16</b>

### Second Year

Fall Semester	Credits	Spring Semester	Credits
General Elective	3	CHEM 1310/131L General Chemistry II	5
CHEM 1300/130L General Chemistry I	5	General Elective	3
MATH 1410 Statistics or MATH 1610 Calc I	3 or 5	MATH 1420 Statistics or MATH 1620 Calc II	3 or 5
Arts & Humanities Elective	3	Social & Behavioral Science Elective	3
<b>Semester Total</b>	<b>14 or 16</b>	<b>Semester Total</b>	<b>14 or 16</b>
<b>Total minimum credits earned at Tri-C</b>			<b>60-64</b>
<b>Associate of Science Awarded</b>			

*Completion of the AS is required. By the end of the 4th semester, students should have completed Tri-C's AS requirements and have earned Junior standing.*

## SUGGESTED SEQUENCE AT CSU

### Third Year

Fall Semester	Credits	Spring Semester	Credits
CHM 331/336 Organic Chemistry I	4	Group A Course (300/301; 304/305)***	4
Group B Course (308/309; 310/311)***	4	Biology Elective***	4
PHY 231 College Physics I	4	PHY 232 College Physics II	4
Writing Across the Curriculum Elective (grade of C or higher required)	3	General Elective 300/400 Level (If Needed)	3
<b>Semester Total</b>	<b>15</b>	<b>Semester Total</b>	<b>15</b>

### Fourth Year

Fall Semester	Credits	Spring Semester	Credits
BIO 390 (Recommended)***	3	BIO 499 Exit Evaluation	0
Group B Course (306/307; 308/309; 310/311)***	4	BIO 495 Seminar***	2
Biology Elective***	4	Biology Elective***	4
Group A Course (302/303)***	3	Biology Elective***	4
		General Elective 300/400 Level (If Needed)	3
		General Elective 300/400 Level (If Needed)	3
<b>Semester Total</b>	<b>14</b>	<b>Semester Total</b>	<b>16</b>
<b>Bachelor of Science Awarded</b>			<b>120-124</b>

Pre-Requisites:

College-ready in MATH and ENG

2 years of the same foreign language completed in high school

students who do not meet these pre-requisites may need to complete additional credits

\*BS in Biology requires completion of one of the following math combinations: (1) MATH 1410 & 1420; (2) MATH 1610 & 1620; (3) MATH 1410 & 1610.

\*\*One of the General Electives is unnecessary if the 10 credit hour Calculus sequence is taken (student will reach 60 hour minimum for the AS).

\*\*\*Biology majors must have a minimum cumulative GPA of 2.0 across all CSU biology courses used to fulfill the major-field requirements.

Students who plan to complete an AS at Tri-C, then transfer to CSU to complete a BS are encouraged to enroll in the Tri-C/CSU Dual Enrollment Admission program. This map represents one example of how to complete the AS and BS degrees. Students should work closely with counselors/advisors at both institutions to discuss options

Students who do not complete the Associate of Arts degree are responsible for the completion of the entire General Education Requirements at Cleveland State University.

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This map represents one example of how to complete the AS and BA/BS degrees. Students should work closely with counselors/advisors at both institutions to discuss options.

CSU requires a minimum of 120 total credit hours for graduation. At least 30 credits must be completed in-residence at CSU. At least 24 of the in-residence credits must be completed at the upper division (300/400) level. An overall total of 42 upper division (300/400) level credits are required. Students deficient in total credits or in-residence must take additional elective credits to meet the minimum requirements. Depending upon other elective choices made, students may not need as many general electives as indicated above, or may need additional electives.