Chemistry

Program: Life Sciences
Program Code:
LF_LFCH
Academic Area:
Science, Technology, Engineering and Mathematics
Type:
Associate in Science
Campus:
Fall River
CIP Code:
40.0501

Program Goals Statement

This program is designed for students who plan to transfer to 4-year institutions and major in Chemistry or a related field. Students graduating from Bristol Community College with an Associates in Science with Chemistry concentration will be qualified for entry-level employment in a chemistry-related career.

Program Information

- This program is designed to prepare students for transfer to 4-year institutions to major in Chemistry or a chemistry-related field and will give them the necessary skill sets for employment as an Associate Scientist I or Chemistry Laboratory Technician.
- Students take transferable General Studies courses (up to 24 credits), as well as Laboratory-Intensive Science Elective courses in their area of interest.
- After completion of the degree program, students will have a strong foundation in Chemistry that prepares them to be successful in their next program of study or career.

After Bristol

- With an Associates in Science - Life Science/Chemistry degree, students will be able to transfer to 4-year institutions with a solid background in Chemistry, which allows them to take upper level chemistry classes at their next institution. They will also have completed at least 24 credits of General Studies requirements that should transfer to their new school.
- Graduates will have the necessary skill sets to seek employment as an Associate Scientist I or Chemistry Laboratory Technician.
- Bristol participates in the Statewide MassTransfer program and has developed many program-to-program transfer articulation agreements which guarantee admission and credit transfer.

MassTransfer A2B Pathway

The Life Sciences - Chemistry program is a MassTransfer A2B Mapped Program with some Massachusetts State Universities. When choosing electives, complete an A2B Program Search to determine available transfer institutions and to ensure all credits will be transferred and applied to your degree.

Degree Requirements

General Courses

Course #	Title	Credits
COM 104	Fundamentals of Public Speaking	3
CSS 101	College Success Seminar	1
ENG 101	Composition I: College Writing	3
ENG 102	Composition II: Writing about Literature	3
	HST 113 or HST 114	3
PSY 101	General Psychology	3

Program Courses

Course #	Title	Credits
BIO 121	Fundamentals of Biological Science I	4
CHM 113	Fundamentals of Chemistry I	4
CHM 114	Fundamentals of Chemistry II	4
CHM 220	Introductory Analytical Chemistry	4
CHM 225	Biochemistry	4
CHM 235	Organic Chemistry I	4
CHM 236	Organic Chemistry II	4
	Two-course Math Sequence	7-8
	CAD 101, CIS 111, CIS 120 or EGR 103	3

Program Electives

Choose two of the following:

Course #	Title	Credits
BIO 122	Fundamentals of Biological Science II	4
BIO 127	Introduction to Biotechniques	4
BIO 240	Cell Biology	4
BIO 250	Introduction to Immunology	4
ENG 215	Technical Writing	3
MTH 214	Calculus I	4
MTH 215	Calculus II	4
PHY 211	General Physics I	4
PHY 212	General Physics II	4

Recommended Course Sequence - Semester 1

Course #	Title	Credits
CHM 113	Fundamentals of Chemistry I	4
CSS 101	College Success Seminar	1
ENG 101	Composition I: College Writing	3
	MTH 152, MTH 172 or MTH 214	3-4
PSY 101	General Psychology	3

Recommended Course Sequence - Semester 2

Course #	Title	Credits
BIO 121	Fundamentals of Biological Science I	4
CHM 114	Fundamentals of Chemistry II	4
ENG 102	Composition II: Writing about Literature	3
	MTH 172, MTH 214 or MTH 215	4
	CAD 101, CIS 111, CIS 120 or EGR 103	3

Recommended Course Sequence - Semester 3

Course #	Title	Credits
CHM 220	Introductory Analytical Chemistry	4
CHM 235	Organic Chemistry I	4
COM 104	Fundamentals of Public Speaking	3
	HST 113 or HST 114	3
	Program Elective	3

Recommended Course Sequence - Semester 4

Course #	Title	Credits
CHM 225	Biochemistry	4
CHM 236	Organic Chemistry II	4
	Program Elective	3
	Program Elective	3
	Total credits:	**60-63**

Category Descriptions

HST 113 or HST 114

Credits: 3

Choose one of the following:

Course #	Title	Credits
HST 113	United States History to 1877	3
HST 114	United States History from 1877	3

Two-course Math Sequence

Credits: 7-8

Choose one two-course math sequence.

Course #	Title	Credits
	MTH 152 and MTH 172	7
	MTH 172 and MTH 214	8
	MTH 214 and MTH 215	8

CAD 101, CIS 111, CIS 120 or EGR 103

Credits: 3

Choose one of the following:

Course #	Title	Credits
CAD 101	Computer Aided Drafting	3
CIS 111	Introduction to Business Information Systems	3
CIS 120	Programming: Logic, Design and Implementation	3
EGR 103	Computer Skills for Engineers and Technicians	3