STEM Transfer Studies

Program: General Studies
Program Code:
GS_GSST
Academic Area:
Science, Technology, Engineering and Mathematics
Type:
Associate in Science
CIP Code:
24.0102

Program Statement

This program provides students with an opportunity to explore the Science, Technology, Engineering and Mathematics (STEM) transfer programs available at the College. Completion of a STEM program can prepare students to transfer to a wide variety of bachelor's degree fields including: Biology, Biotechnology, Chemistry, Computer Science, Engineering Science, Information Systems, Mathematics and Physics.

Program Information

- This program is intended for students to explore STEM courses before committing to an academic program designed to transfer to a four-year institution.
- Students should take any required developmental courses in their first semester.
- Students have access to outstanding STEM laboratory facilities and learn from faculty involved in state-of-the-art research activities. Courses are constantly evolving to reflect current trends.
- Students should be in a Math course every semester until they have completed their sequence.
- Courses are offered both days and evenings, are delivered via traditional classroom or online, and taking summer courses can reduce fall and spring semester course loads.

After Bristol

- Students are encouraged to select a specific STEM Transfer program, including Computer Science and Information Systems Transfer, Engineering Transfer, Liberal Arts Math and Science Concentration or Life Sciences Biology Concentration, before completing more than 32 credits.

- Bristol participates in the statewide MassTransfer program and has developed many program-to-program transfer articulation agreements which guarantee admission and credit transfer. For a complete listing of eligible MassTransfer programs, current Bristol articulation agreements, and to complete an A2B Program Search, visit the Transfer Services website to review which credits will be transferred and applied to your degree.

Degree Requirements

General Courses

Course #	Title	Credits
CHM 113	Fundamentals of Chemistry I	4
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
SOC 101	Principles of Sociology	3
PHL 152	Ethics: Making Ethical Decisions in a Modern World	3

Elective Courses

Course #	Title	Credits
	HST 113 or HST 114	3
	MTH 152, MTH 172 or MTH 214	7-8
	STEM Information Literacy Elective	0-4
	BIO 121, CHM 114 or PHY 211	4

Program Electives

Course #	Title	Credits
	STEM Program Electives	21-27

Recommended Course Sequence - Semester 1

Course #	Title	Credits
CHM 113	Fundamentals of Chemistry I	4
COM 104	Fundamentals of Public Speaking	3
CSS 101	College Success Seminar	1
ENG 101	Composition I: College Writing	3
	MTH 152 or MTH 172	3-4

Recommended Course Sequence - Semester 2

Course #	Title	Credits
ENG 102	Composition II: Writing about Literature	3
	HST 113 or HST 114	3
	MTH 172 or MTH 214	4
	STEM Information Literacy Elective	0-4
	BIO 121, CHM 114 or PHY 211	4

Recommended Course Sequence - Semester 3

Course #	Title	Credits
PHL 152	Ethics: Making Ethical Decisions in a Modern World	3
	Program Elective	3
	Program Elective	3
	Program Elective	3

Recommended Course Sequence - Semester 4

Course #	Title	Credits
	Program Elective	3
	Program Elective	3
	Program Elective	3
	Program Elective	3
	Total credits:	**60**

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

MTH 152, MTH 172 or MTH 214

Credits: 7-8

Choose two of the following:

Course #	Title	Credits
MTH 152	College Algebra	3
MTH 172	Precalculus with Trigonometry	4
MTH 214	Calculus I	4

STEM Information Literacy Elective

Credits: 0-4

Information Literacy Elective can be waived for students who have successfully completed two online or hybrid courses.

Choose one of the following:

Course #	Title	Credits
CAD 101	Computer Aided Drafting	3
CIS 120	Programming: Logic, Design and Implementation	3
CIS 123	Object-Oriented Concepts	3
CIS 157	Object-Oriented JAVA Programming I	4
EGR 103	Computer Skills for Engineers and Technicians	3

BIO 121, CHM 114 or PHY 211

Credits: 4

Choose one of the following:

Course #	Title	Credits
BIO 121	Fundamentals of Biological Science I	4
CHM 114	Fundamentals of Chemistry II	4
PHY 211	General Physics I	4

STEM Program Electives

Credits: 21-27

Consult with your advisor to select college-level courses to achieve a total of at least 60 credits.

(CUL, DHG, HCI, MAS, MAT, MED, NUR, OTA, and PLB courses are approved electives within General Studies for all students who had previously been enrolled in a selective/competitive program.)

Recommended Electives: AGR, BIO, BUS, CAD, CIS, CIT, EGR, GLG, INT, MTH, PHY, SCI, ENG 215, and CHM 114 or higher.