

**BIOLOGY OPTION – X060**

**A.S. in Arts & Science**

Contact: Erica Bergquist, 413-552-2461, ebergquist@hcc.edu

COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
<b>GENERAL EDUCATION REQUIREMENTS</b>			<b>32</b>		
Language and Literature I	ENG 101	Appropriate score on Placement Tests, or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099	3		
Language and Literature II	ENG 102	ENG 101	3		
Social Science Elective (B)			3		
Social Science Elective (B)			3		
Social Science Electives (B)			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Humanities Electives (C)			3		
Introduction to Cell functions <b>or</b> Biology Today I' <b>and</b> Biology Today II' <b>or</b> General Botany' <b>and</b> General Zoology'	BIO 100 or 103 BIO 104 BIO 110 BIO 120	Credit cannot be received for more than one of these - BIO 100, 103	8		
<b>PROGRAM ELECTIVES (Select 8 credits from the following )</b>			<b>8</b>		
Introduction to Biotechnology (Fall)	BIO 106	BIO 103 or BIO 110 or BIO 120 and MTH 095 eligible.	4		
Microbiology	BIO 229	A grade of C or better in BIO 100 or 103, or a grade of C- or better in VET 133	4		
Plants of New England (Fall)	BIO 215	A semester course in college biology or environmental science	4		
Vertebrate Field Biology (Spring)	BIO 222	BIO 104 or BIO 120 or BIO 230	4		
Animal Behavior (Fall)	BIO 223	BIO 120 or BIO 104 or VET 133	4		
Ecology (Spring)	BIO 230	A semester course in college biology or environmental science	4		
Genetics (Spring)	BIO 243	A grade of C or better in one of the following: BIO 100, 103, 110, 112 or 120	4		
Independent Study	BIO 295		4		
<b>PROGRAM REQUIREMENTS</b>			<b>15</b>		
Principles of Chemistry I <b>or</b> Inorganic Chemistry I	CHM 113 CHM 121	High School Algebra I or equivalent. High School Chemistry recommended.	4		
Principles of Chemistry II <b>or</b> Inorganic Chemistry II	CHM 114 CHM 124	CHM 113 or equivalent. High School Algebra I or equivalent recommended. CHM 113 or CHM 121	4		
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**PROGRAM OVERVIEW**  
 Designed to satisfy freshman – sophomore curriculum for students intending to continue in the life sciences beyond the associate degree. Possible areas of concentration at the four-year college include: genetics, botany, zoology, microbiology, bio-chemistry, marine biology, and wildlife conservation. Program flexibility allows students to follow their interests and to match coursework with the requirements of their selected transfer institution.

**BIOLOGY OPTION – X060 (Continued)****A.S. in Arts & Science**

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COURSE TITLE	COURSE NUMBER	PREREQUISITES	CREDITS	SEMESTER TAKEN	GRADE
Statistics	MTH 142	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination	3		
College Algebra <b>or</b> Pre-Calculus <b>or</b> Analytic Geometry and Calculus I	MTH 104 MTH 108 MTH 113	MTH 097 with a grade of C- or better or adequate score on the Mathematics Placement Examination MTH 104 with a grade of C- or better, or adequate score on the Mathematics Placement Examination MTH 108 or adequate score on the Mathematics Placement Exam	4		
<b>SUGGESTED ELECTIVES <sup>2,3</sup></b> <b>(Sufficient to complete 60 credit graduation requirement)</b>			<b>5-8</b>		
<b>Total Credits</b>			<b>60-63</b>		

## NOTES:

<sup>1</sup> Check with transfer institution / counselor for specific requirements.

This program qualifies for MassTransfer, which guarantees credit transfer to Massachusetts state colleges universities. MassTransfer also will grant students automatic acceptance to certain state colleges and universities by achieving the minimum grade point average and the HCC degree.

<sup>2</sup> BIO 111 Human Biology; BIO 217 Human Anatomy and Physiology I; Biology 218 Human Anatomy and Physiology II are recommended or students interested in human biology and health careers.<sup>3</sup> Suggested course prefixes: AST; BIO; CHM; EGR; ESC; ENV; MTH; PHS; SEM. Any Liberal Arts elective is allowed.Depending on the course selection 50% of this program can be completed online. Go to <http://webtide.hccdl.org> for further information.