



Northeastern University

College of Professional Studies

Transfer Articulation Guide

Holyoke Community College AS Biotechnology to
 Northeastern University College of Professional **BS Biotechnology**

Holyoke Community College, AS in Biotechnology Courses			Northeastern University College of Professional Studies, BS in Biotechnology Equivalencies		
Semester 1 – (14 credits)					
BIO 107	General Biology 1: Introduction to Cell Functions	4	BIO 1100 + BIO 1101	Principles of Biology I + Lab	4
CHM121	Inorganic Chemistry I	4	CHM 1100 + CHM 1101	General Chemistry I + Lab	4
ENG 101	English Composition I	3	ENG 1105 + ENG 1106	College Writing 1 + Lab	3
MTH142	Statistics	3	MTH 2310	Statistics for the Behavioral and Social Sciences	3
Semester 2 – (14 credits)					
<i>Humanities Elective Recommended: PHI 120</i>	Ethics	3	PHL 2140	Ethical Issues in Science and Engineering	3
CHM 124	Inorganic Chemistry II	4	CHM 1200 + CHM 1201	General Chemistry II + Lab	4
ENG 102	English Composition II	3	ENG 1107 + ENG 1108	College Writing 2 + Lab	3
MTH 113	Calculus I	4	MTH 2100 + MTH 2990	Calculus 1 + MTH Elective	4
Semester 3 – (17 credits)					
<i>Humanities Elective Recommended: ENG 215, ENG 224, or ENG 231</i>	Modern Poetry, Children’s Literature, or Creative Nonfiction	3	ENG 3220, ENG 3210, or ENG 3240	Writing Poetry, Writing for Young Readers, or Writing Nonfiction (<i>EI Core</i>)	3
BIO 106	Intro. to Biotechnology	4	BTC 1300 + BIO 1301	Intro. to Biotechnology + Lab	4
<i>Social Science Elective Recommended: ANT 101</i>	Cultural Anthropology	3	ANT 1150	Cultural Anthropology (<i>IC/SI Core</i>)	3
<i>Social Science Elective</i>	Race and Ethnicity	3	SOC 1230	Race and Ethnicity (<i>IC/DD Core</i>)	3

Recommended: SOC 220					
CHM 221	Organic Chemistry 1 and Lab	4	CHM 2110 + CHM 2101	Organic Chemistry 1 + Lab	4
Semester 4 – Fall (15 credits)					
<i>Humanities Elective Take any</i>	Humanities Elective	3		<i>(Open Elective)</i>	3
BIO 229	Microbiology and Lab	4	BIO 2100 + BIO 2101	Microbiology + Lab	4
<i>Social Science Elective Take any</i>	Social Science Elective	3		<i>(Open Elective)</i>	3
BIO113	Biotechnology Seminar	1	BTC 1990	Biotechnology Elective	1
CHM 222	Organic Chemistry 2 and Lab	4	CHM 2200 + CHM 2201	Organic Chemistry 2 + Lab	4
Total Credits Completed at Holyoke Community College		60	Total Credits Accepted for Transfer		60
Total Transfer Credits Applied to BS in Biotechnology Degree					60

BS in Biotechnology Courses to be taken at CPS

General Foundation			
Course Number	Title	Credits	Pre-Requisites/Note
ENG 3105 + ENG 3106	Writing for the Professions-Sci and Eng + Lab	4	ENG 1105 + ENG 1106; co-requisite ENG 3106
ITC 1000 <i>or</i> ITC 2016	Computer Applications <i>or</i> End User Data Analysis Tools	3	
General Foundation Total		7	
Major Foundation			
BIO 1200 + BIO 1201	Principles of Biology 2	4	BIO1100 + BIO1101
MTH 2105	Calculus II	3	
PHY 1200 + PHY 1201	Physics I + Lab	4	
PHY 2200 + PHY 2201	Physics II + Lab	4	
Major Foundation Total		15	
Major Required Courses			
CHM 2300 + CHM 2301	Analytical Chemistry + Lab	4	CHM 1200 + CHM 1201
BIO 2300	Cell biology	3	BIO1200 + BIO 1201
BIO 2500 + BIO 2501	Genetics and Molecular Biology + Lab	4	BIO1200 + BIO 1201
BIO 3100 + BIO 3101	Biochemistry + Lab	4	BIO1200 + BIO 1201
BTC 4450	Quality Control and Validaiton Issues	3	BTC1300 + MTH2300
BTC 4850	Biotechnology Senior Project	3	BIO 2300 + BIO 2500
Major Required Courses Total		21	
Major Electives			
<i>Choose at least 6 semester hours from BTC and 3 semester hours from BIO, BTC, or HSC.</i>			
Major Electives Total		9	
Open Electives Total		11	
Credits to be taken at CPS		63	
Total Credits required for CPS BS Biotechnology		123	