

Articulation Agreement

Quinsigamond Community College A.A. Liberal Arts – Biology to Northeastern University College of Professional Studies BS Biological Science

- 1. This Agreement states and memorializes opportunities QCC students may have to transfer credits and experiences earned in the QCC Liberal Arts Biology A.A. program into the NU-CPS Biological Science B.S. degree.
- 2. QCC students who successfully complete the Liberal Arts Biology A.A. program are eligible for admission into the CPS Biological Science B.S. degree, subject to and in accordance with the limitations and procedures set forth in this Agreement.
- 3. QCC graduates who successfully complete the Liberal Arts Biology A.A. program with a minimum overall grade point average of 2.5 on a 4.0 scale are eligible for admission to CPS to pursue the Biological Science B.S. degree. CPS retains the right to make the final decision on each student's application.
- 4. To be considered for the College of Professional Studies, Quinsigamond Community College students must:
 - a. Submit a completed online application and required supporting credentials to the College of Professional Studies by the posted term entry deadline.
 - b. At its discretion, CPS will evaluate courses with a grade of C or better for transfer credit toward the baccalaureate degree. Courses designated as remedial or developmental are non-transferable. Science and technology courses completed more than seven years prior to the application date may be considered for transfer at the discretion of the CPS program director.
 - c. The College of Professional Studies reserves the right to rescind an offer of acceptance if student is no longer considered in good academic standing or disciplinary sanctions occur between the times of acceptance to matriculation.
- 5. Upon acceptance into the Biological Science B.S. degree, QCC graduates are subject to all requirements and other published standards issued by CPS, as may be amended from time to time in the sole discretion of CPS.

- 6. As a member of the Servicemembers Opportunity Colleges (SOC), CPS agrees to award up to 75% of transfer credits toward a baccalaureate degree and 70% toward a master's degree for active service members.
- 7. QCC shall permit CPS to obtain written verification, if necessary, from QCC of an applicant's eligibility for course credit transfer under this Agreement.
- 8. This Agreement shall continue until terminated by either party. Either institution may terminate this Agreement, with or without cause, provided that the terminating institution has given the other institution written notice at least 90 days prior to the effective date of such termination and further provided that no such termination shall adversely affect any student attending or accepted by CPS by virtue of the terms of this Agreement. In the event that the said Agreement is not terminated, it will automatically be extended year by year.
- 9. The parties agree that this Agreement embodies all of the agreements made by and between then supersedes any prior agreements and the understanding with regards to the acceptance of QCC students into CPS and that any modifications or amendments thereof must be in writing executed by both parties in order to be effective. The Agreement is being executed within the Commonwealth of Massachusetts and the parties agree that this Agreement shall be interpreted under the laws of said Commonwealth.



Transfer Articulation Guide

Quinsigamond Community College AA Liberal Arts-Biology to Northeastern University College of Professional BS Biological Science

Quinsigamond Community College, AA in Liberal Arts-Biology Curriculum			Northeastern University College of Professional Studies, BS in Biological Science Equivalencies		
First Semester (14	credits)			- -	
BIO 107	Principles of Biology I	4	BIO 1100 + BIO 1101	Principles of Biology I + Lab	4
CHM 105	General Chemistry I	4	CHM 1100 + CHM 1101	General Chemistry I + Lab	4
ENG 101	Composition I	3	ENG 1105 + ENG 1106	College Writing I + Writing Lab I	3
MAT 122	Statistics	3	MTH 2310	Statistics for the Social and Behavioral Sciences	3
Second Semester (14 credits)				
BIO 108	Principles of Biology II	4	BIO 1200 + BIO 1201	Principles of Biology II + Lab	4
CHM 106	General Chemistry II	4	CHM 1200 + CHM 1201	General Chemistry II + Lab	4
ENG 102	Composition II	3	ENG 1107 + ENG 1108	College Writing II + Writing Lab II	3
MAT 123 *	College Mathematics 1: Pre- Calculus	3	MTH 1990	MTH Elective	3
Third Semester (17	credits)	•			•
BIO 262	Principles of Genetics	4	BIO 2500 + BIO 2501	Genetics and Molecular Biology + Lab	4
CHM 201, PHY 101 or PHY 105 Recommended: PHY 101 or PHY 105 **	Physics 1 <i>or</i> General Physics I	4	PHY 1200 + PHY 1201	Physics I + Lab	4
MAT 124*	College Mathematics II: Trigonometry	3	MTH 1200	Precalculus	3
Literature, Philosophy or Language Elective Recommended: PHI 103	Introduction to Ethics	3	PHL 2140	Ethical Issues in Science and Engineering	3
History Elective Recommended: HST 115 or	U.S. History: Beginning to 1865 <i>or</i> U.S. History: 1865 to Present	3	HST 1200 <i>or</i> HST 1250	American History 1: Precontact to the Civil War <i>or</i>	3

HST 116				American History 2: Reconstruction to the	
				Present	
				(SI + DD Core)	
Fourth Semester (1	.7 credits)				
BIO 231 or BIO259 Recommended: BIO 231	General Microbiology	4	BIO 2100 + BIO 2101	Microbiology + Lab	4
CHM 202, PHY 102 or PHY 106 Recommended: If completed PHY 101, take PHY 102 or if completed PHY 105, take PHY 106 **	Physics 2 <i>or</i> General Physics 2	4	PHY 2200 + PHY 2201	Physics II + Lab	4
Creative Arts Elective Recommended ENG 203	Writing Poetry	3	ENG 3220	Writing Poetry (El Core)	3
Social Science Foundational Elective Recommended ANT 111	Cultural Anthropology	3.	ANT 1150	Cultural Anthropology (IC/SI Core)	3
Multiple Perspectives in Humanities Elective	Choose from ART 260, ASL, ENG 231, ENG 232, ENG 261, ENG 262, FRC, GER, HUM 147, HUM 211, MUS 121, PHI 121, PHI 123, PHI 201, SPN	3		(Open Elective)	3
				Total Credits Accepted for Transfer	62
			Tot	al Transfer Credits Applied to BS Degree	62

^{*} QCC students who place into and complete MAT 233 Calculus I and/or MAT 234 Calculus II may substitute those courses in the Liberal Arts-Biology associate degree and have those credits apply towards Northeastern University-CPS General Foundational requirements in the BS in Biotechnology degree.

^{**}QCC students may choose to complete CHM 201 Organic Chemistry I and CHM 202 Organic Chemistry II in the Liberal Arts-Biology program. Northeastern University-CPS requires both Organic Chemistry I+II and Physics I+II. Students who complete the Organic Chemistry series at QCC will need to complete the Physics series at Northeastern University-CPS.

BS in Biological Science Courses to be taken at CPS

Course Number Title		Credits	Pre-Requisites
ENG 3105 + ENG 3106	Writing for the Professions-Sci and Eng + Lab	4	ENG 1105 + ENG 1106
General Foundation Total		4	
Biology Foundation			
MTH 2100*	Calculus 1		MTH 1200
MTH 2105*	Calculus 2		MTH 2100
ITC 1000 or ITC 2016	Computer Applications or End-User Data		
Biology Foundation Total		9	
Major Required Courses			
CHM 2110 + CHM 2111			CHM 1200 + CHM 1201
CHM 2210 + CHM 2201			CHM 2110 + CHM 2111
BIO 2300	Cell Biology	3	BIO 1200 + BIO 1201
BIO 3100 + BIO 3101			BIO 1200 + BIO 1201
BIO 4850	Biological Sciences Senior Project	3	BIO 2300 and BIO 2500
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Major Required Courses Major Electives: Choose	3	18	unt towards the three source
Major Electives: Choose			unt towards the three course
Major Electives: Choose Note: BIO 1600, BIO 1700	3		unt towards the three course BIO 1200 + BIO 1201
Major Electives: Choose Note: BIO 1600, BIO 1700 requirement.	3 D and BTC 1300 must be taken with their labs. Lab	s do not cou	1
Major Electives: Choose Note: BIO 1600, BIO 1700 requirement. BIO 1600 + BIO 1601	3 O and BTC 1300 must be taken with their labs. Lab Human Anatomy and Physiology I and Lab	s do not cou 4	BIO 1200 + BIO 1201
Major Electives: Choose Note: BIO 1600, BIO 1700 requirement. BIO 1600 + BIO 1601 BIO 1700 + BIO 1701	3 O and BTC 1300 must be taken with their labs. Lab Human Anatomy and Physiology I and Lab Human Anatomy and Physiology II and Lab	s do not cou 4 4	BIO 1200 + BIO 1201 BIO 1600 + BIO 1601
Major Electives: Choose Note: BIO 1600, BIO 1700 requirement. BIO 1600 + BIO 1601 BIO 1700 + BIO 1701 BTC 1300 BTC 3300	3 D and BTC 1300 must be taken with their labs. Lab Human Anatomy and Physiology I and Lab Human Anatomy and Physiology II and Lab Introduction to Biotechnology	s do not cou 4 4 3	BIO 1200 + BIO 1201 BIO 1600 + BIO 1601 BIO 1200 + BIO 1201
Major Electives: Choose Note: BIO 1600, BIO 1700 requirement. BIO 1600 + BIO 1601 BIO 1700 + BIO 1701 BTC 1300 BTC 3300 BTC 4200	3 D and BTC 1300 must be taken with their labs. Lab Human Anatomy and Physiology I and Lab Human Anatomy and Physiology II and Lab Introduction to Biotechnology Biomaterials	4 4 3 3 3 3	BIO 1200 + BIO 1201 BIO 1600 + BIO 1601 BIO 1200 + BIO 1201 BIO 1200 + BIO 1201
Major Electives: Choose Note: BIO 1600, BIO 1700 requirement. BIO 1600 + BIO 1601 BIO 1700 + BIO 1701 BTC 1300 BTC 3300 BTC 4200 BTC 4300	3 O and BTC 1300 must be taken with their labs. Lab Human Anatomy and Physiology I and Lab Human Anatomy and Physiology II and Lab Introduction to Biotechnology Biomaterials Genomics, Proteomics and Bioinformatics	4 4 3 3 3	BIO 1200 + BIO 1201 BIO 1600 + BIO 1601 BIO 1200 + BIO 1201 BIO 1200 + BIO 1201 BTC 1300 + BIO 2500
Major Electives: Choose Note: BIO 1600, BIO 1700 requirement. BIO 1600 + BIO 1601 BIO 1700 + BIO 1701 BTC 1300	3 D and BTC 1300 must be taken with their labs. Lab Human Anatomy and Physiology I and Lab Human Anatomy and Physiology II and Lab Introduction to Biotechnology Biomaterials Genomics, Proteomics and Bioinformatics Biotechnology Processing	4 4 3 3 3 3	BIO 1200 + BIO 1201 BIO 1600 + BIO 1601 BIO 1200 + BIO 1201 BIO 1200 + BIO 1201 BTC 1300 + BIO 2500 BTC 1300 + BIO 2300
Major Electives: Choose Note: BIO 1600, BIO 1700 requirement. BIO 1600 + BIO 1601 BIO 1700 + BIO 1701 BTC 1300 BTC 3300 BTC 4200 BTC 4300 BTC 4450	3 D and BTC 1300 must be taken with their labs. Lab Human Anatomy and Physiology I and Lab Human Anatomy and Physiology II and Lab Introduction to Biotechnology Biomaterials Genomics, Proteomics and Bioinformatics Biotechnology Processing Quality Control and Validation Issues	4 4 3 3 3 3 3	BIO 1200 + BIO 1201 BIO 1600 + BIO 1601 BIO 1200 + BIO 1201 BIO 1200 + BIO 1201 BTC 1300 + BIO 2500 BTC 1300 + BIO 2300
Major Electives: Choose Note: BIO 1600, BIO 1700 requirement. BIO 1600 + BIO 1601 BIO 1700 + BIO 1701 BTC 1300 BTC 3300 BTC 4200 BTC 4200 BTC 4450 HSC 1200	3 D and BTC 1300 must be taken with their labs. Lab Human Anatomy and Physiology I and Lab Human Anatomy and Physiology II and Lab Introduction to Biotechnology Biomaterials Genomics, Proteomics and Bioinformatics Biotechnology Processing Quality Control and Validation Issues Nutrition	4 4 3 3 3 3 3 3	BIO 1200 + BIO 1201 BIO 1600 + BIO 1601 BIO 1200 + BIO 1201 BIO 1200 + BIO 1201 BTC 1300 + BIO 2500 BTC 1300 + BIO 2300 BTC 1300 + MTH 2310 or MTH 3300
Major Electives: Choose Note: BIO 1600, BIO 1700 requirement. BIO 1600 + BIO 1601 BIO 1700 + BIO 1701 BTC 1300 BTC 3300 BTC 4200 BTC 4300 BTC 4450 HSC 1200 HSC 3300	A and BTC 1300 must be taken with their labs. Lab Human Anatomy and Physiology I and Lab Human Anatomy and Physiology II and Lab Introduction to Biotechnology Biomaterials Genomics, Proteomics and Bioinformatics Biotechnology Processing Quality Control and Validation Issues Nutrition Epidemiology	4 4 3 3 3 3 3 3	BIO 1200 + BIO 1201 BIO 1600 + BIO 1601 BIO 1200 + BIO 1201 BIO 1200 + BIO 1201 BTC 1300 + BIO 2500 BTC 1300 + BIO 2300 BTC 1300 + MTH 2310 or MTH 3300 MTH 2300, MTH 2310 or MTH 3300
Major Electives: Choose Note: BIO 1600, BIO 1700 requirement. BIO 1600 + BIO 1601 BIO 1700 + BIO 1701 BTC 1300 BTC 3300 BTC 4200 BTC 4450 HSC 1200 HSC 3300 HSC 3300 HSC 3310	A cand BTC 1300 must be taken with their labs. Lab Human Anatomy and Physiology I and Lab Human Anatomy and Physiology II and Lab Introduction to Biotechnology Biomaterials Genomics, Proteomics and Bioinformatics Biotechnology Processing Quality Control and Validation Issues Nutrition Epidemiology Pathophysiology	4 4 4 3 3 3 3 3 3 3 3	BIO 1200 + BIO 1201 BIO 1600 + BIO 1601 BIO 1200 + BIO 1201 BIO 1200 + BIO 1201 BTC 1300 + BIO 2500 BTC 1300 + BIO 2300 BTC 1300 + MTH 2310 or MTH 3300 MTH 2300, MTH 2310 or MTH 3300 BIO 1200 + BIO 1201
Major Electives: Choose Note: BIO 1600, BIO 1700 requirement. BIO 1600 + BIO 1601 BIO 1700 + BIO 1701 BTC 1300 BTC 3300 BTC 4200 BTC 4450 HSC 1200 HSC 3300 HSC 3300 HSC 3310	A cand BTC 1300 must be taken with their labs. Lab Human Anatomy and Physiology I and Lab Human Anatomy and Physiology II and Lab Introduction to Biotechnology Biomaterials Genomics, Proteomics and Bioinformatics Biotechnology Processing Quality Control and Validation Issues Nutrition Epidemiology Pathophysiology Pharmacology	4 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	BIO 1200 + BIO 1201 BIO 1600 + BIO 1601 BIO 1200 + BIO 1201 BIO 1200 + BIO 1201 BTC 1300 + BIO 2500 BTC 1300 + BIO 2300 BTC 1300 + MTH 2310 or MTH 3300 MTH 2300, MTH 2310 or MTH 3300 BIO 1200 + BIO 1201
Major Electives: Choose Note: BIO 1600, BIO 1700 requirement. BIO 1600 + BIO 1601 BIO 1700 + BIO 1701 BTC 1300 BTC 3300 BTC 4200 BTC 4450 HSC 1200 HSC 3300 HSC 3300 HSC 3310	A and BTC 1300 must be taken with their labs. Lab Human Anatomy and Physiology I and Lab Human Anatomy and Physiology II and Lab Introduction to Biotechnology Biomaterials Genomics, Proteomics and Bioinformatics Biotechnology Processing Quality Control and Validation Issues Nutrition Epidemiology Pathophysiology Pharmacology Major Electives Total	4 4 4 3 3 3 3 3 3 3 3 3 3 9-11	BIO 1200 + BIO 1201 BIO 1600 + BIO 1601 BIO 1200 + BIO 1201 BIO 1200 + BIO 1201 BTC 1300 + BIO 2500 BTC 1300 + BIO 2300 BTC 1300 + MTH 2310 or MTH 3300 MTH 2300, MTH 2310 or MTH 3300 BIO 1200 + BIO 1201

- * Students may choose to complete one or two of the following minors while satisfying their Professional and Open Electives:
 - American Politics
 - Business
 - Creative Writing
 - Environmental Science
 - Graphic Communication
 - Healthcare Management
 - History

- Information Technology
- International Relations
- Organizational Communication
- Psychology
- Sociology
- Technical Communication

TRANSFER ARTICULATION GUIDE REVIEWED AND APPROVED BY

QUINSIGAMOND COMMUNITY COLLEGE	
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