2+2 Articulation Agreement for Carroll Community College and Towson University

Associate's Degree: A.S. in Physical Science, Chemistry Concentration Bachelor's Degree: B.S. in Molecular Biology, Biochemistry, & Bioinformatics (MB3), Biochemistry Concentration Effective Term: Fall 2019

This section outlines English Composition

ENGL 101 College Writing

3 ENGL 102 Writing for a Liberal Edu

Mathematics	MATH 135 Calculus of a Single Variable 1	4	MATH 273 Calculus I
Arts & Humanities	Any arts & humanities course.	3	Equivalency will vary by course.
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Social & Behavioral Sciences	Any social & behavioral science course.	3	Equivalency will vary by course.
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Biological & Physical Sciences	CHEM 105 Principles of General Chemistry 1	4	CHEM 131 & CHEM 131L General Chemistry I Lecture & Lab
Biological & Physical Sciences	Choose one course: PHYS 101 Fundamentals of Physics 1 PHYS 111 Physics 1 for Scientists & Engineers	4	Equivalency varies by course: PHYS 211 General Physics I Non Calculus-Based PHYS 241 General Physics II Calculus-Based

Carroll CC Requirement	Carroll CC Course to Take	Credits	Towson University Equivalent Course
Program Requirement	CHEM 106 Principles of General Chemistry 2	4	CHEM 132 & CHEM 132L General Chemistry II

This section explains any specific course selections made in section 1 and provides transfer planning guidance specific to this degree plan. Students must follow the course selections outlined in this document. If students do not complete any or all of the courses outlined in this agreement, they will be required to complete outstanding requirements at TU.

COURSE AVAILABILITY

Certain courses at Carroll CC are only offered in the fall or spring term. Students must be mindful of course availability and plan accordingly to complete a course

This section outlines the remaining degree requirements for students transferring into the Biochemistry concentration, which examines the molecules of life with emphasis on the chemical structure and reactivity that shape biological function. Refer to section 4 for university-wide degree requirements.

CORE CURRICULUM REQUIREMENTS: 6 UNITS

Core 9 Advanced Writing Seminar Core 14 Ethical Perspectives

MB3 MAJOR REQUIRED COURSES: 23 UNITS

BIOL 409 Molecular Biology (4 units) CHEM 351 Biochemistry I (3 units)