2+2 Articulation Agreement for Anne Arundel Community College and Towson University

Associate's Degree: A.S. in Arts & Sciences Transfer, Chemistry Concentration
Bachelor's Degree: B.S. in Forensic Chemistry
Effective Term: Fall 2020

Section 1: Course Completion Plan for AACC

This section outlines the courses to take for the

English Composition	ENG 101 Academic Writing & Research 1	3	ENGL 102 Writing for a Liberal Education
Mathematics	MAT 191 Calculus & Analytic Geometry 1	4	MATH 273 Calculus I
Arts & Humanities	Any Arts & Humanities course	3	Equivalency varies by course.
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Social & Behavioral Sciences	Any Social & Behavioral Science course	3	Equivalency varies by course.
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			Lecture & Lab
Wellness Requirement	Any Wellness GER course	3	Equivalency varies by course.

Table 2: Program Requirements and Electives Applied to TU Degree

AACC Requirement	AACC

Section 2: AACC Course Selection Details

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.

GENERAL EDUCATION

Students must note the following general education requirements and information:

Arts & Humanities: Students may need to select their two Arts & Humanities courses from specific subjects at AACC. Students should consult their AACC catalog or academic advisor for details. Courses taken for this requirement will transfer regardless of subject and will not affect the major requirements at TU.

Social & Behavioral Sciences: Students may need to select their two Social & Behavioral Science courses from specific subjects at AACC. Students should consult their AACC catalog or academic advisor for details. Courses taken for this requirement will transfer regardless of subject and will not affect the major requirements at TU.

Diversity Requirement: Students must select an approved **diversity course** for one of the Arts & Humanities or Social & Behavioral Science requirements in order to satisfy AACC degree requirements.

Total Credits: Though the AACC degree requires only 33 credits of general education, C r

LOWER-LEVEL EQUIVALENTS OF UPPER-LEVEL COURSES

A course number beginning with T indicates that it is a lower-level equivalent of an upper-level TU course. CHEM T31 and CHEM T32 will satisfy the major requirements for CHEM 331 and 332, but they will not count toward the TU degree requirement for 32 upper-level units.

MATH AND CHEMISTRY PREREQUISITES

The Chemistry program is designed for students who are ready to enroll in calculus and general chemistry in their first term. Students should note the following requirements for enrollment into these courses:

MAT 191 Calculus 1: Enrollment in this course requires an appropriate score on the AACC Mathematics Placement

Section 3: Degree Requirements to Be Completed at TU

This section outlines the degree requirements for students transferring into the Forensic Chemistry major, which offers three tracks to prepare students for specialized work in forensic science or graduate studies. Refer to section 4 for additional major requirements, university-wide degree requirements, and detailed descriptions of each track.

CORE CURRICULUM REQUIREMENTS: 6 UN

Trace Evidence/Drug Analysis Track – 18 units

CHEM 310 Instrumental Analysis (4 units)
CHEM 345 Principles of Physical Chemistry (3 units)
CHEM 372 Physical Chemistry Laboratory (2 units)
CHEM 480 Chemical Toxicology (3 units)
FRSC 363 Chemistry of Dangerous Drugs (3 units)
FRSC 467 Forensic Analytical Chemistry (3 units)

DNA Track – 20 units

BIOL 309 Genetics (4 units)
BIOL 409 Molecular Biology (4 units)
BIOL 410 Molecular Biology Laboratory (2 units)
CHEM 356 Biochemistry Lab (2 units)
MBBB 301 Intro to Bioinformatics (4 units)
FRSC 420 Body Fluid Analysis (4 units)

GENERAL ELECTIVES: 0-2 UNITS

The number of elective units required will be determined by the student's track and is based on the transfer of 60 credits. If students transfer more than 60 credits due to any mathematics prerequisites, they will not need to take any general elective units.

Section 4: Additional Requirements & Recommendations for TU Degree Completion

FORENSIC CHEMISTRY TRACK DESCRIPTIONS:

General Forensic Science – This track is intended for students who are considering employment in a drug analysis, trace evidence analysis or DNA analysis laboratory, or to pursue a graduate degree in a non-specialized forensic master's program.

Trace Evidence/Drug Analysis – This track is intended for students who desire a strong chemistry and instrumental analysis education and are considering a profession in a forensic chemistry laboratory or graduate program specializing in the analysis of trace evidence (e.g. fibers, paint, soil, flammables, or explosives) or in the analysis of illegal drugs and toxicology.

DNA – This track is intended for students who desire a strong biochemistry and molecular biology education and are considering a profession in a forensic laboratory or graduate program specializing in body fluid and tissue analysis, and human identification using serology and DNA technology.

ADDITIONAL REQ