

MEMORANDUM OF UNDERSTANDING
COMMUNITY COLLEGE OF BALTIMORE COUNTY & TOWSON
UNIVERSITY
October 15, 2018

CHEMISTRY B.S. Degree

Community College of Baltimore County, Catonsville, Maryland, and Towson University, agree to follow the articulation of courses outlined in the articulation (course equivalency) document, for completion of requirements for the Bachelor of Science degree in Chemistry (Attachment A), which is attached to, and incorporated by reference into, this Memorandum of Understanding (MOU). The following principles guide the operation of this MOU, with the requirements for transfer in specific curricula set forth in Attachment A.

1. Towson University will accept a maximum number of 64 credits from Community College of Baltimore County as outlined in the Attachment A. The number of transferable credits specific to this program is reflected in Attachment A.
2. Students who have completed the Associate of Science Degree in the Science – Chemistry Area of concentration program at Community College of Baltimore County may transfer into Towson University’s Chemistry program with junior standing provided that the student has completed all courses identified on Attachment A (which is attached to, and incorporated by reference into, this MOU) with a cumulative GPA of 2.00 or higher. Courses completed at Community College of Baltimore County with 300 or 400 level Towson University course equivalencies will transfer as lower-level credit but will satisfy course content as indicated.
3. Only courses in which a grade of C (2.00) or better is earned will apply toward the major at Towson University.
4. In accordance with the MHEC transfer policy pertaining to general education requirements, Towson University will accept the completion of Community College of Baltimore County’s general education requirements (GenEds) and students will be required to complete courses at Towson University to satisfy the remaining *University Core* requirements as shown in Attachment A.
5. Towson University recognizes college-level experiential learning gained through previous work, military and/or volunteer service or life experience. Credit for prior learning may also be established through course challenge or standardized credit by examination.
6. Community College of Baltimore County students transferring to Towson University will be given every consideration for financial aid and will be eligible to compete for academic scholarships upon entrance to Towson University subject to stated scholarship deadlines.
7. Both Community College of Baltimore County and Towson University agree to work together to facilitate the transfer of students from Community College of Baltimore

County to Towson University to work cooperatively to insure the high quality of the programs at the respective institutions. Transfer of students will be in accordance with policies and procedures of both institutions, as they may be amended from time to time.

8. This MOU will be in effect initially for five years, beginning *fall 2018*, with a review every two years by both parties. Any revisions the parties deem necessary must be evidenced in writing and signed by the authorized officials of each institution. The MOU may be terminated by either party for due cause and after adequate notice of not less than six months is given to the other party.
9. Towson University will establish procedures to provide information on the academic progress of Community College of Baltimore County students enrolled as part of this MOU.
10. This MOU, when signed, constitutes the entire agreement between the parties and supersedes all prior agreements and understandings between the parties respecting the matter hereof.

COMMUNITY COLLEGE OF BALTIMORE COUNTY – SCIENCE – AREA OF CONCENTRATION CHEMISTRY A.S. DEGREE
TOWSON UNIVERSITY/ CHEMISTRY B.S. DEGREE

COMMUNITY COLLEGE OF BALTIMORE COUNTY			TOWSON UNIVERSITY		
COURSE #	COURSE TITLE	CR	TU EQUIVALENCY	COMMENTS	COURSE ID#
General Education Applied to Core					
				Towson Seminar Waived	13192
ENGL 101	College Composition I (E)	3	ENGL 102		2348
MATH 251*	Calculus I (M)	4	MATH 273	Satisfies major requirement (Additional Required Course) at TU.	4407
CSIT 101 <i>or</i> CSIT 111	Technology and Information Systems (I) <i>or</i> Logic and OO Design (I)	3	COSC 111 COSC 175		13369 1335**
CMNS 101	Fundamentals of Communication (A)	3	COMM 131		1221
A/H Gen Ed**	Arts/Humanities (A)	3	Depends on choice.		
S/B Gen Ed**	Social and Behavioral Science (S)	3	Depends on choice.		
S/B Gen Ed**	Social and Behavioral Science (S)	3	Depends on choice.		
CHEM 131*	General Chemistry I (B)	4	CHEM 131 CHEM 131L	Satisfies major requirement (Required Chemistry Course) at TU.	13097 13098
PHYS 151*	General Physics I (B)	4	PHYS 241	Satisfies major requirement (Additional Required Course) at TU.	6805
BIOL 110	Biology I: Molecular and Cells (B)	4	BIOL 200 & 200L		13759 & 13760
MATH 259*	Elementary Differential Equations (M)	3	MATH T74	Lower Level Equivalent of MATH 374 Satisfies major elective (Elective group B) at TU.	10493
Units Applied to TU Core		37			
CHEM 133*	General Chemistry II	4	CHEM 132 & 132L	Satisfies major requirement (Required Chemistry Course) at TU.	13099 & 13100
CHEM 200* CHEM 201*	Organic Chemistry I <i>and</i> Organic Chemistry I Laboratory	3 1	CHEM T31	Lower-level equivalent of CHEM 331. Satisfies major requirement (Required Chemistry Course) at TU.	10134
CHEM 202* CHEM 203*	Organic Chemistry II <i>and</i> Organic Chemistry II Laboratory	3 1	CHEM T32	Lower-level equivalent of CHEM 332. Satisfies major requirement (Required Chemistry Course) at TU.	10135
MATH 252*	Calculus II	4	MATH 274	Satisfies major requirement (Additional Required Course) at TU.	4408
PHYS 251*	General Physics II (B)	4	PHYS 242	Satisfies major requirement (Additional Required Course) at TU.	6806
Program Elective	Program Elective	3	Depends on Choice		
ACDV 101	Academic Development: Transitioning to College	1	Not Transferable		
Program Requirements Applied		23-24			
Total Degree Requirements at CCBC***		60-61			
Maximum Units in Transfer		64	Core Transfer Package AACR 400 (13065)		

*Course satisfies program requirement for both Associate's degree and major requirements in the Bachelor's degree. PHYS 151 and 251 (TU's PHYS 241 and 242) will be accepted in place of TU's Chemistry major requirement of PHYS 211 and 212.

**At least one Arts/Humanities course or Social/Behavioral course must be a Diversity course to satisfy CCBC's General Education Requirements

Note: CHEM 131, MATH 251, and PHYS 151 may require prerequisites which will increase the total number of credits students complete at CCBC. Students should consult CCBC's catalog for complete prerequisite information.

COMMUNITY COLLEGE OF BALTIMORE COUNTY – SCIENCE – AREA OF CONCENTRATION CHEMISTRY A.S. DEGREE
TOWSON UNIVERSITY/ CHEMISTRY B.S. DEGREE

ACDV 101: Credit students who are new to college (no successfully completed transferable college credits from other institutions) are required to take ACDV 101 - Academic Development: Transitioning to College. This 1-credit course is designed to be taken in the first semester at CCBC. Students must provide an official transcript(s) from an accredited institution to document successful completion of college coursework for the ACDV 101 requirement to be waived. **NOTE**: This course does not transfer to TU.

COMMUNITY COLLEGE OF BALTIMORE COUNTY – SCIENCE – AREA OF CONCENTRATION CHEMISTRY A.S. DEGREE
TOWSON UNIVERSITY/ CHEMISTRY B.S. DEGREE

DEGREE REQUIREMENTS TO BE COMPLETED AT TU:

CORE CURRICULUM TO BE COMPLETED AT TU 3 units

Core 9	Advanced Writing Seminar	3 units
--------	--------------------------	---------

NOTE: If general education courses were not completed as indicated on the first page of this document, additional CORE curriculum courses may be required at TU.

REQUIRED CHEMISTRY COURSES 17 units

CHEM 210	Analytical Chemistry	5 units
CHEM 323	Inorganic Chemistry	4 units
CHEM 345	Principles of Physical Chemistry	3 units
CHEM 351	Biochemistry I	3 units
CHEM 372	Physical Chemistry Laboratory	2 units

MAJOR ELECTIVES 3 units

In addition to the required courses listed above, students electing this major must take a minimum of 3 additional units in Elective Group A. Students should consult the current TU catalog for a list of approved elective courses. Elective courses may require additional prerequisites that are not listed in the degree requirements.

GENERAL ELECTIVES 37 units

Students may consider filling general elective units through a number of different options, including completing additional electives in the major, adding a minor, or completing electives to explore personal and professional interests.

CHEMISTRY MAJOR REPEAT POLICY: A student may repeat no more than three courses, including multiple attempts at the same course, required for the Chemistry major or minor. This includes all foundation courses, as well as required courses and electives for the major and minor. Students exceeding this limit may not be permitted to register for additional Chemistry courses.

NOTE: This policy applies to TU coursework only. Students will not be penalized for repeating major courses prior to attending TU; they should refer to the CCBC catalog for its repeat policy.

COMMUNITY COLLEGE OF BALTIMORE COUNTY – SCIENCE – AREA OF CONCENTRATION CHEMISTRY A.S. DEGREE
TOWSON UNIVERSITY/ CHEMISTRY B.S. DEGREE

TOTAL UNITS TO THE B.S. DEGREE 120 UNITS

CCBC Science – Area of Concentration Chemistry A.S. Degree	60
Completion of Core Curriculum at TU	3
Chemistry Major Requirements at TU	20
General Electives	37

ADDITIONAL BACHELOR’S DEGREE REQUIREMENTS:

- *A C (2.0) or higher is required in all major and minor courses.*
- *A cumulative grade point average (GPA) of 2.0 is required.*
- *32 units of the bachelor’s degree must be completed at the upper level (courses numbered 300 or above).*