

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

**INFORMATION TECHNOLOGY 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 Information Technology (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 Applied Science Degree in the Information Technology program at Community College of Baltimore County may transfer into Towson University's Information Technology 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 (CCBC) Information Technology A.A.S. Degree**  
**Towson University (TU) – Information Technology B.S. Degree**

COMMUNITY COLLEGE OF BALTIMORE COUNTY			TOWSON UNIVERSITY			
COURSE #	COURSE TITLE	CRS.	TU EQUIVALENCY	CORE	COMMENTS	COURSE ID#
			TSEM 102 (waived)	1.	Towson Seminar	13192
ENGL 101	College Composition I (E)	3	ENGL 102	2.	English Composition	2348
MATH 153*	Introduction To Statistical Methods (M) *	4	MATH 231	3.	Mathematics	4393
CSIT 101	Technology And Information Systems (I)	3	COSC 111	4.	Creativity & Creative Development	13369
CMNS 101*	Fundamentals Of Communication (A) *	3	COMM 131	5.	Arts & Humanities	1221
GENED S/BS	Social And Behavioral Science Gened (S)****	3	Depends On Choice	6.	Social & Behavioral Sciences	
GENED BPS	Biol & Phys Sci Gen Ed W/Lab (B)***	4	Depends On Choice	7.	Biological & Physical Science w/Lab	
				8.	Biological & Physical Science	
				9.	Advanced Writing Seminar	
				10.	Metropolitan Perspectives	
				11.	The United States as a Nation	
				12.	Global Perspectives	
ENGL 102*	College Composition II (E) *	3	ENGL TLL**	13.	Diversity & Difference	10267**
				14.	Ethical Issues & Perspectives	
<b>Total applied to TU Core</b>		<b>23</b>				
CSIT 111	Logic And OO Design	3	COSC 175			1335
CSIT 121	Web Standards	3	ITEC 231			12826
CSIT 142	Introduction To MIS	3	CIS 211			1185
CSIT 154	Database Concepts	4	COSC TLL			10186
CSIT 210	Introduction To Programming	4	ITEC 236			13676
CSIT 161	Introduction To Information Assurance	3	CIS T77 (377)	Lower-level version of upper-level course at TU.		12273
CSIT 166	Intro To Mobile Applications Development	4	COSC TLL			10186
CSIT 254*	Emerging Database Design* (Prog Elect)	4	ITEC T15 (315)	Lower-level version of upper-level course at TU.		13366
DCOM 101	Introduction To Data Communications	3	ITEC 250			13140
DCOM 142*	Introduction To Linux/Unix * (Prog Elect)	3	ITEC 274			13152
CSIT 212*	Visual Basic * (Prog Elect)	3	CIS 265			1348
PROG ELECT	Program Elective	2-3	Depends On Choice			
ACDV 101	Academic Development: Transition (SEE NOTE)	(1)	NT	NOT TRANSFERABLE		
<b>Program Requirements at CCBC</b>		<b>39-41</b>				
<b>Total Degree Requirements at CCBC</b>		<b>62-64</b>				
<b>Maximum Units in Transfer</b>		<b>64</b>				

\*Students should choose this course in order to fulfill both the CCBC requirement toward their A.A.S. degree, but also to complete a TU requirement in ITEC or Core. See page 2 for more details.

\*\*Requires Course Directive for Core placement.

\*\*\*CCBC students should choose to complete a 4.0 credit lab-science as their Biological and Physical Sciences (B) general education elective.

\*\*\*\*At least one General Education course taken at CCBC must be a diversity course. TU recommends to complete this in the Social and Behavioral Sciences category.

**Note:** Credit students who are new to college (have not 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.

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**CCBC Course Selections:****General education:**

1. Students should choose **MATH 153 Introduction to Statistical Methods** to satisfy their General Education elective-Mathematics (M) at CCBC to satisfy Core and Major requirements at TU. Students who do not take **MATH 153** at CCBC *will need to take MATH 231 or ECON 205 at TU* to satisfy the Information Technology (ITEC) major's statistic requirement.
2. Students should choose **CMNS 101 Fundamentals of Communication** as their Arts and Humanities (A) General Education Requirement at CCBC to satisfy Core 5 and a major requirement at TU. Students who do not take CMNS 101 at CCBC *will need to take COMM 131 at TU* to satisfy the ITEC program requirement.

**Program requirements/ electives:**

1. Students should choose **ENGL 102 College Composition II** for the English or Management Program Requirement to satisfy a Core requirement at TU. Students who do not take **ENGL 102** *will need to take an additional Core course at TU*.
2. Students should choose **CSIT 254 Emerging Database Design** as one of their program electives at CCBC. Students who take both **CSIT 154** and **CSIT 254** will receive credit for ITEC 315 which satisfies a Major requirement at TU. If both CSIT 154 and CSIT 254 are not taken, students *will be required to take ITEC 315 at TU* to satisfy the ITEC program requirement.
3. Students should take both **DCOM 101 Introduction to Data Communication** and **DCOM 142 Introduction to Linux/Unix** (using one as a program elective) to satisfy ITEC 250 and ITEC 274 at TU. Students who do not complete both courses *will need to take ITEC 250 or 274 at TU* – depending on their choice – to satisfy the ITEC program requirement.
4. Students should take **CSIT 212 Visual Basic** as one of their program electives at CCBC to satisfy an ITEC program elective at TU.

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**CORE Curriculum requirements to be completed at TU: 18-21 Units**

CORE 8	Biological And Physical Science	3
CORE 9	ENGL 317 Writing for Business & Industry	3
CORE 10	Metropolitan Perspectives	3
CORE 11	The United States As A Nation	3
CORE 12	Global Perspectives	3
CORE 13	Diversity And Difference	(3)
<i>*May be required if student did not take ENGL 102 as program elective, as indicated on page 2 of this agreement.</i>		
CORE 14	COSC 418 Ethical and Societal Concerns of Computer Scientists	3

**Required Courses: 15 Units**

CIS 435	Human-Computer Interaction	3
COSC 418	Ethical and Societal Concerns of Computer Scientists (counted above)	(3)
ITEC 325	System Administration and Maintenance	3
ITEC 345	Scripting Languages	3
ITEC 411	System Architecture Ad Integration	3
ITEC 485	Information Technology Capstone	3

**Elective Courses: 12-15\* Units**

***At least four courses must be upper level. SELECT FROM THE FOLLOWING:***

CIS 212	Intro to Business Program
CIS 426	Gaming Interface Design
CIS 436	E- Government
CIS 440	System Development/E-Commerce
CIS 445	Universal Userability: Designing Computer Interfaces for Blind Users
CIS 468	Applied Data Mining and Visual Analytics
COSC 237	Introduction to Computer Science Ii
ITEC 217	Computing Hardware And Infrastructure
ITEC 336	Legal And Policy Issues In Information Technology
ITEC 397	Information Technology Internship
ITEC 423	Emerging Internet Technologies
ITEC 425	IT Enterprise Architecture
ITEC 427	Cloud Computing Enterprises
ITEC 437	Disaster Recovery And Enterprise Continuity
ITEC 450	Advanced Computer Networking
ITEC 451	Advanced Data Management & Analysis

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ITEC 464	Web Development
ITEC 470	Special Topics in Information Technology
ITEC 495	Independent Study in Information Technology

***\*15 Units of Electives will be required if student did not take CSIT 212 Visual Basic as a program elective at CCBC.***

<u>Other Required Courses</u>	<u>0-9 Units</u>
COMM 131* Fundamentals of Speech Communication*	(3)
ENGL 317 Writing for Business and Industry (counted above)	(3)
MATH 231 <i>or</i> Basic Statistics <i>or</i>	(3) <i>or</i>
ECON 205* Statistics for Business and Economics I*	(3)

***\*Students must complete these courses at TU if course selections at CCBC were not made as indicated on page 2 of this agreement.***

<u>Total Units to B.S. Degree</u>	<u>120 Units*</u>
CCBC Information Technology A.A.S.	62-63
Completion of University Core at TU	18-21
Completion of TU Information Technology program requirements	27-39
Electives	0-13

***\*This program is designed to be completed in 120 credits. Students who do not take courses at CCBC as outlined in this document may require additional credits depending on their course selections.***

**Bachelor's Degree Requirements:**

- A C (2.0) or higher is required in all major 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).