MEMORANDUM OF UNDERSTANDING HARFORD COMMUNITY COLLEGE & TOWSON UNIVERSITY September 17, 2018

INFORMATION SYSTEMS – E-Government Track B.S. Degree

Harford Community College, Bel Air, 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 Systems – E-Government Track (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 Harford Community College 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 Computer Science program at Harford Community College may transfer into Towson University's Information Systems 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 Harford Community College 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 Harford Community College'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. Harford Community College 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 Harford Community College and Towson University agree to work together to facilitate the transfer of students from Harford Community College 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 ten 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 Harford Community College 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.

HARFORD COMMUNITY COLLEGE AND TOWSON UNIVERSITY

Dr. Steven Thomas
Vice President for

Academic Affairs

Date 9.28. 2018

Dr. David Vanko

Interim Provost and Executive Vice-President of Academic Affairs

Date 901+18

Harford Community College (HCC) Computer Science A.S. Degree

Sept. 17, 2018

Towson University (TU)/ Information Systems – e-Government B.S. Degree

			64	Maximum Units in Transfer	
			60-61	Total Units Completed at Harford	
1000	CORE Package 3: AACR 300		27	Program Requirements Applied	
10564		PHEA TLL	ב	oice Physical Education Elective	Depends on choice
4401	Satisfies required MATH course for major at TU.	MATH 263	ω	Discrete Structures	OTZ H I NIV
	237. IF ONLY ONE COURSE IS COMPLETED STUDENT WILL RECEIVE ELECTIVE CREDIT AND MUST TAKE BOTH COSC 236 AND 237 AT TU.	12	-	7.	240
1345	MUST BE COMPLETED TO RECEIVE CREDIT FOR COSC 236 & COSC	COSC 237	4	Computer Science II	CSI 132
1344	Satisfies Required course for Major at TU. Note: BOTH CSI 131 & 132	COSC 236	4	Computer Science I	CSI 131
1335		COSC 175	4	C++ Programming Language	CIS 221
10186		COSCTLL	4	Programming II: Java	CIS 214
10186		COSC TLL	4	Assembly Programming Language	CIS 201
10186		COSC TLL	з	Fundamentals of Programming	CIS 115
				Program Requirements/Electives	
			34	Units Applied to TU Core	
4393	Satisfies required MATH course for major at TU.	MATH 231	4	Introduction to Statistics (GM) **	MATH 216**
4408	•	MATH 274	4	Calculus II (GM)	MATH 204
6915	Satisfies major track requirement at TU	POSC 103	ω	American National Government (GB)**	PS 101**
		Depends on choice	ω	Biological/Physical Sciences (GS)	BIO/PHSC
		Depends on choice	4	Biological/Physical Sciences (GL)	BIO/PHSC
		Depends on choice	ω	Behavioral/Social Science Elective (GB)*	GB*
10711		Depends on choice	ω	Arts & Humanities Elective (GH)*	GH*
10411		Depends on choice	ω	Arts & Humanities Elective (GH)*	GH*
4407	Satisfies required MATH course for major at TU.	MATH 273	4	Calculus I (GM)	MATH 203
2348		ENGL 102	3	English Composition (GE)	ENG 101
	Towson Seminar Waived				
				General Education Applied to CORE	
COURSE ID#	COMMENTS	TU EQUIVALENCY	CRS	COURSE TITLE	COURSE #
	TOWSON UNIVERSITY			HARFORD COMMUNITY COLLEGE	

^{*}One General Education course from Arts and Humanities OR Social and Behavioral Sciences General Education categories must be a diversity (D) course.

Students who do not complete courses as outlined here may need to take additional Core courses at TU. Students under this agreement will receive a Core Package 3 provided course selections at HCC are made as indicated in this agreement.

page 2 for more details ** Students should choose specific courses in order to fulfill both the HCC requirement toward their A.S. degree, but also to complete a TU requirement in COSC or Core. See

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Harford Community College Course Selections:

General Education:

Students should choose PS 101 American National Government as one of their Behavioral/Social Science Electives at HCC to satisfy the IS program requirement. satisfy both a Core and major requirements at TU. Students who do not take PS 101 at HCC will need to take POSC 103 at TU to

Program requirements/ electives:

- satisfy the IS program requirement. NOTE: MATH 216 is a 4-credit course and will increase a student's total degree credits at Students should choose MATH 216 Introduction to Statistics as their "General Elective" at HCC to satisfy Major and Core HCC by 1.0 credit. Students will be able to complete Bachelor's degree in 120 credits. Curriculum requirements at TU. Students who do not take MATH 216 at HCC will need to take MATH 231 or 331 at TU to
- will be required to take an additional Core course at TU. Education course to satisfy the requirement. Students who do not choose a MATH 216 or another General Education course Students who do not choose MATH 216 Introduction to Statistics as their "General Elective" should choose another General

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CORE 14		CORE Curric
COSC 418 Ethical & Societal Concerns of Computer Scientists	ENGL 317 Writing for Business and Industry	CORE Curriculum requirements to be completed at TU:
w	3	6-9 Units

course. *Students who do not complete MATH 216 or general education course as indicated on page 1 and 2 of this agreement may need an additional Core

Courses ormation Systems and Technology b Technologies and Architecture nteraction l Design ase Management nagement nagement cerns of Computer Scientists (counted above) Capstone Methods 16 as indicated on page 1 and 2 of this agreement. Ind Industry (counted above) Ind Information Technology	ENGL 317 Writing for Busine E-Government Track CIS 334 Data Organization CIS 436 e-Government ITEC 336 Legal and Policy Is	Required MATH Course MATH 231** or Basic Statistics** or MATH 330 Introduction Statistics **If students do not complete MATH 2	Capstone CIS 475 Informat	Required Information Systems (IS) Courses CIS 211 Fundamentals of Information ITEC 231 Fundamentals of Web Techn CIS 239 Enterprise Systems and Archi CIS 350 Telecommunications CIS 435 Human – Computer Interaction CIS 379 Systems Analysis and Design CIS 458 Organizational Database Mar CIS 479 Software Project Management COSC 418 Ethical & Societal Concerns of
24 Units 3 3 3 3 3 3 3 3 3 3 (3) 3 0-4 Units 3 or 4 18-21 Unit 3 3	or Business and Industry <i>(counted above)</i> anization ment Policy Issues in Information Technology	atistics** or ion Statistics Methods lete MATH 216 as indicated on page 1 and 2 of this agreement.	ion Systems Capstone	entals of Information Systems and Technology entals of Web Technologies se Systems and Architecture munications - Computer Interaction Analysis and Design tional Database Management - Project Management Societal Concerns of Computer Scientists (counted above)
	0 Units (3) 18-21 Units 3 3 3	0-4 Units 3 <i>or</i> 4	3 Units	24 Units 3 3 3 3 3 3 3 3 3 (3)

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POSC 103** American National Government**
POSC 207 State Government

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Select two of the following:

CIS 377 Information Systems Security

CIS 397 Internship in Information Systems
CIS 433 Select Topics Information Systems

CIS 425 Decision Support Systems

CIS 445 Universal Usability: Designing Computer Interfaces for Blind Users

CIS 495 Independent Study in Computer Information Systems

POSC 375 Public Administration

Total Units to B.S. Degree	120 Hnitc*
Harford Community College Computer Science A.S.	120 OIIIO
Completion of University Core at TII	T9-09
Completion of lafe	6-9
Completion of illiorifiation systems program requirements	45-52
Electives	0-9

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

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).

 $^{^{**}}$ If students do not complete PS 101 as indicated on page 1 and 2 of this agreement.