Agreement between College of Southern Maryland (CSM) and Capitol Technology University (Capitol Tech) for the Articulation of the following Associate of Applied Science in Cybersecurity at College of Southern Maryland (CSM) to the following B.S. degrees at Capitol Tech: Cybersecurity

PURPOSE

This agreement facilitates the transfer of CSM students who graduate with an Associate of Applied Science in Cybersecurity to the B.S. in Cybersecurity at Capitol Tech. This agreement defines the terms of the transfer agreement.

The goals inherent in the agreement are to:

1. Facilitate student admission into the B.S. in Cybersecurity after completing the Associate of Applied Science in Cybersecurity.

2. Establish a clear set of understandings and expectations for institutions, students, and their respective degrees.

3. Establish a pathway for CSM Associate of Applied Science in Cybersecurity graduates to earn a B. S. degree in Cybersecurity at Capitol Tech to advance their careers in the associated field.

ARTICULATION AGREEMENT

CSM and Capitol Tech agree that students from CSM, under the articulation agreement, may transfer credits earned for the Associate of Applied Science in Cybersecurity towards a B. S. degree in Cybersecurity at Capitol Tech. The following general principles guide the implementation of this agreement:

1. The program is designed for graduates of the Associate of Applied Science in Cybersecurity at CSM to transfer specific courses in which they have earned the grade of C or higher. The number of courses transferred may not exceed 70 credit hours. However, students with transfer credits from 4-year institutions may request evaluation of those credits for additional transfer. The credit hours transferred from CSM contribute to the fulfillment of the 120/121 credit hours required for baccalaureate completion at Capitol Tech.

2. The course transfer tables included with this document specifies courses that may transfer from CSM to Capitol Tech.

3. Capitol will consider, on a case-by-case basis, accepting credit from non-direct classroom instruction (including CLEP, AP, and other nationally recognized standardized examination scores).

4. Students are advised to complete the A.A.S. degree prior to officially transferring to Capitol Tech.

5. CSM students who complete the Associate of Applied Science in Cybersecurity with a 2.5 grade point average will be automatically accepted into the B.S. in Cybersecurity degree program at Capitol Tech.

6. Students who complete the associates degree with a GPA of 3.0 or higher and subsequently attend Capitol in either an on campus or synchronous online program full-time will receive transfer scholarships of up to $10,000 per year.

7. Students who transfer to Capitol's asynchronous eight-week term programs will qualify for the partner tuition rate ($360 per credit hour for 2020-2021)

8. At the request of CSM, Capitol Tech will provide general information on the academic progress of CSM students enrolled in any of the Capitol Tech's B.S. programs. Any feedback must adhere to FERPA requirements.

9. The Capitol Tech BS in Construction Safety is a Board of Certified Safety Professionals (BCPS) QAP program. Upon graduation, graduates of a BCPS QAP program like this are eligible to apply for the Graduate Safety Practitioner® (GSP®), a BCSP-approved credential necessary to apply for the Certified Safety Professional® (CSP®). In order for Capitol Tech to obtain this status, all the safety, math, and science courses we offer in this program include their mandatory criteria.

10. CSM and Capitol Tech agree to monitor the performance of this agreement when any changes to program curriculum occur.

11. CSM and Capitol Tech agree to publicize this agreement on their web sites.

12. The course transfer tables are subject to a five-year review for updating and revising as necessary by the appropriate CSM and Capitol Tech officials without affecting the signed agreement.

13. Either party may terminate the agreement with 60 days advance written notice to the other. Termination of the agreement will not affect any students currently enrolled in the Associate of Applied Science in Cybersecurity who are taking courses at Capitol or who are accepted into the Bachelor of Science in Cybersecurity at Capitol Tech.

14. This agreement becomes effective on the date that the last authorizing party has signed the agreement. The last signer will write the date on the signature page.

Course Transfer Table

College of Southern Maryland A.A.S. in Cybersecurity to
Capitol Technology University B.S. in Cybersecurity (120 Credits)
30 Credits Must Be Taken at Capitol Technology University

COURSE NUMBER, TITLE and NUMBER of CREDITS			COURSE NUMBER, TITLE and NUMBER of CREDITS	
Programming and Computer Courses **33 Credits**			**English, Humanities, & Social Sciences** **24 Credits**	
	CS-120 Intro to Programming Using Python (3)	CSC-1110	EN-101 English Communications I (3)	ENG 1010
	CS-150 Intro to Programming Using C (3)		EN-102 English Communications II (3)	ENG 2050
	CS-200 Intro to Object Oriented Prog C++ (3)		HU-331 or HU-332 Arts and Ideas (3)	
	CS-220 Database Management (3)	See Note 1:	SS-351 Ethics (3)	PHL 1150
	CS-230 Data Structures (3)		Humanities Elective (3)	COM 1010
	CS-250 Intro to Network Programming Using C (3)		Humanities Elective (3)	
	CS-300 Secure Coding (3)		Social Science Elective (3)	SOC BEH SCI ELE
	CS-418 Operating Systems (3)		Social Science Elective (3)	
	CT-152 Introduction to Unix (3)	ITS 1960		
	CT-240 Internetworking w/Routers/Switches (3)	ITS-2516	**Management Courses** **6 Credits**	
	NT-150 Introduction to Networking (3)	ITS 2511	BUS-101 Intro to Data Science (3)	
			BUS-301 Project Management (3)	Note 2:
Information Assurance Courses **33 Credits**				
	IAE-201 Introduction to IA Concepts (3)	ITS 2545	**Mathematics & Science Courses** **12 Credits**	
	IAE-250 Comprehensive Computer/Network Security (3) (*Formerly IAE-301*)	ITS 2090	MA-112 Intermediate Algebra (3)	Note 1:
	IAE-260 Secure Sys Admin & Operation (UNIX O/S) (3) (*Formerly IAE-315*) or IAE-261 Secure Sys Admin & Operation (Windows O/S) (3)	ITS 2190 = IAE-261	MA-124 Discrete Math (3)	**Note 1:**
	IAE-321 Applied Wireless Network Security (3)		MA-128 Introduction to Statistics (3)	Note 1:
	IAE-325 Secure Data Communications and Cryptography (3) or TC-319 Network Infrastructure Security (3)	ITS-2536	Science Elective (3) (AE-150, CH-120, PH-201)	BIO/PHY SCI
	IAE-390 Penetration Testing (3) (*Formerly IAE-410*)	ITS 2500		
	IAE-402 Intro to Incident Handling/Malicious Code (3)		**General Electives** **12 Credits**	
	IAE-405 Malware Analysis/Reverse Engineering (3)		1. ITS-1050	3
	IAE-406 Digital Forensics and the Investigative Process (3)	ITS 2555	2. MTH-1010	3
	IAE-457 Senior Design Project I (3)		3. See Note 2:	3
	IAE-458 Senior Design Project II (3)		4. See Note 2:	3

Evaluated by (list below):	**Date:**	

1.

Student
First Name:
Last Name:

Note 1:

Recommended Math	Recommended CS and BUS
MTH-1120 transfers as MA-112	ITS-1120 transfers as CS-220
MTH-2500 transfers as MA-124	ITS 1015 transfers as BUS-301
MTH-1015 transfers as MA-128	ITS-2480 transfers as BUS-101

Note 2: Electives (Choose 1 Concentration)
Digital Forensics
ITS-1120 - Introduction to Database* = CS-220
ITS-2560 - Digital Forensics II* = General Elective
Network Security
ITS-2527 – Enterprise Networking* = General Elective
ITS-2400 – Introduction to Cloud Computing* = General Elective
Information Assurance
ITS-2150 – Business Continuity & Disaster Recovery* = General Elective
ITS 2160 – Cybersecurity Risk Management = General Elective

Students are required to complete FS-100 (Freshman Seminar) unless the student has transferred 24 credit hours or greater. A student may be required to complete MA-005, EN-001, and CS-100, NT-100 based on placement test results.

B.S. in Cyber Security Map by Year and Semester -- 120 Credits

Yr/Sem	Course #	Course	Credits	Prerequisite or Corequisite
YEAR 1				
1-1	CT-152	Introduction to UNIX	3	None
1-1	FS-100	Freshman Seminar	1	None
1-1	EN-101	English Communications I	3	Placement test score
1-1	CS-120	Intro to Programming Using Python	3	Placement test score (if placed into CS-150 take CT-206 in Spring)
1-1	MA-112	Intermediate Algebra	3	Placement test score or MA-005
1-1	NT-150	Introduction to Networking	3	None
1-2	CS-150	Intro to Programming using C	3	MA-112 and CS-100
1-2	EN-102	English Communications II	3	EN-101
1-2	MA-124	Discrete Math	3	MA-112, MA-114, or placement test score
1-2	TBD	Humanities Elective 1/2	3	Varies
1-2	IAE-201	Introduction to IA Concepts	3	Corequisite: MA-110 or MA-112 or MA-114 or MA-261
YEAR 2				
2-1	CS-200	Intro to Object Oriented Prog C++	3	CS-130 or CS-150
2-1	TBD	Science Elective	3	(AE-150 or CH-120 or PH-201)
2-1	TBD	General Elective 1 of 4	3	Recommend IAE-261 or 310
2-1	IAE-260	Secure Systems Administration & Operations: UNIX	3	IAE-201 & CT-152 & CS150
2-1	MA-128	Statistics	3	MA-110 or MA-112 or higher
2-2	IAE-250	Comprehensive Computer Network Security (Sec Plus)	3	IAE-260
2-2	BUS-101	Introduction to Data Science	3	MA-128 or consent of department
2-2	CS-220	Database Management	3	CS-130 or CS-150
2-2	CS-230	Data Structures	3	CS-225, or CS-200, or CS 130 and corequ MA124
2-2	CT-240	Internetworking with Router/Switch	3	NT-150
YEAR 3				
3-1		Social Science Elective 1/2		Varies
3-1	IAE-321	Applied Wireless Net Security	3	IAE-250 and CT-240
3-1	IAE-325	Secure Data Communications	3	IAE-325 IAE-250 and CT-152
3-1	CS-250	Introduction to Network Programming Using C	3	CS-230
3-1	TBD	General Elective 2 of 4	3	Recommend IAE-351/430/470/490
3-2	CS-300	Secure Coding	3	CS-250
3-2	IAE-390	Penetration Testing	3	CT-240 and IAE-260
3-2	IAE-402	Introduction to Incident Handling and Malicious Code	3	IAE-260/261
3-2	TBD	General Elective 3 of 4	3	Recommend IAE-351/430/470/490
3-2	BUS-301	Project Management	3	EN101
YEAR 4				
4-1	CS-418	Operating Systems	3	CS-150, CT-152, CS-230, and Senior status
4-1	IAE-457	Senior Design Project II	3	Greater than 90 credits
4-1	IAE-405	Malware Analysis/Reverse Engineering	3	IAE-402
4-1	IAE-406	Digital Forensics and the Investigative Process	3	IAE-260 and CT152
4-1	TBD	General Elective 4 of 4	3	Recommend CS-418
4-2	IAE-458	Senior Design Project II	3	IAE-457
4-2	SS-351	Ethics	3	EN-102
4-2	HU-331	Arts and Ideas	3	EN-102
4-2	TBD	Humanities 2/2	3	Varies
4-2	TBD	Social Science Elective 2/2	3	Varies

<div align="center">**Authorizing Signatures**</div>

Oct 12, 2021

This agreement is authorized for implementation on the _____ day of _____, 2021.

Bradford L. Sims
Bradford L. Sims (Oct 11, 2021 10:34 EDT)

Bradford L. Sims, PhD
President
Capitol Technology University

Maureen Murphy
_____

Dr. Maureen Murphy, PhD
President
College of Southern Maryland

Richard E. Baker
Richard E. Baker (Oct 11, 2021 10:37 EDT)

Richard Baker, PhD
Vice President of Academic Affairs
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Rodney Redmond
Rodney Redmond (Oct 11, 2021 10:40 EDT)

Dr. Rodney Redmond
Provost & Vice President of Learning
College of Southern Maryland

<div align="center">Updated September 2021</div>