TRANSFER ARTICULATION AGREEMENT

Utica College
Cybersecurity (B.S.)

and

Herkimer College
Cybersecurity and Digital Forensics (A.S.)

June 18, 2019

Utica College and Herkimer College, in recognition of a mutual respect for the integrity of parallel academic programs and in an effort to better serve students intending to pursue the completion of a bachelor's degree, hereby enter into an agreement of articulated degree programs.

OBJECTIVES:

To encourage the transfer of qualified students from Herkimer College (HCCC) to Utica College (UC).

To award academic credit for courses completed at HCCC, that meet the terms of the Associate Degree programs for application toward the requirements a Bachelor of Arts or a Bachelor of Science at UC.

To provide effective and concise guidelines for students seeking to transfer to UC. Students will have accurate and clear information regarding the transfer of their coursework and credits toward the Bachelor's degree at UC.

TERMS OF THE TRANSFER ARTICULATION AGREEMENT:

UC guarantees the acceptance of students who completed an Associate Degree at HCCC with a cumulative GPA of 2.5 or better to UC. Transfer students who do not meet these criteria will be evaluated individually.

This agreement assumes the completion of the Associate Degree. UC requires that the last 30 credit hours granted toward the Bachelor degree must be earned in residence, with matriculated status. Additionally, the Bachelor of Arts degree requires that a _minimum of 90 credits must be in the liberal arts_ while the Bachelor of Science requires a _minimum of 60 credits must be in the liberal arts_.

HCCC transfer Students will be subject to all general education requirements of UC as set forth in the UC catalogue.

   Transfer students with a completed Associates Degree will be exempt from Components I & II of UC's Core Requirements.

   Students who transfer 30 credits of liberal arts and sciences (with at least 2 courses in each of UC's three categories of Component II Core—including one lab science course) will be exempt from Component II Core.

   Transfer Students who enter UC with Components I & II complete will be required to complete 3 credits of Component III: Integrated Writing.

This document is based upon the evaluation of course descriptions presented to UC. Courses will transfer to UC provided a grade of "C" or better has been earned. Credit will be granted where the coursework is comparable to that offered at UC or as general elective and/or liberal arts credit.

This Agreement shall remain in effect for a period of two years from the date listed below, with the provision that the terms specified herein will continue to apply to the students admitted from HCCC within one year of the expiration of the agreement. Each institution agrees to provide timely notice to the other in the event of any modification to the curriculum that might affect the compatibility for admission and transfer of coursework. This agreement may be subject to change, without notice, if curriculum requirements change at either institution. Students admitted to HCCC prior to such notification shall be admitted to UC on the basis of this agreement.

BENEFITS/ADVANTAGES:

HCCC transfer students are eligible for scholarship and financial aid in all ways the same as continuing Utica College students.

Utica College will provide housing in campus residence halls within the guidelines and practices governing availability of housing for continuing students.

HCCC transfer students are eligible to participate in internships, externships, co-ops, field placements and study abroad opportunities open to continuing Utica College students.

Approved on (date) _____

SIGNATURES

Utica College   **Herkimer College**

_____   _____

Laura M. Casamento, Ed.D.   Cathleen C. McColgin, Ph.D.
President   President

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Craig P. Dewan, M.S.
Registrar

Cybersecurity and Digital Forensics A.S.

HEGIS: 5505

SUNY CODE: 1734

Cybersecurity and Digital Forensics A.S.

The Digital Forensics program will prepare students to work in the investigatory side of the field of cyber security. Digital forensic examiners are the first responders in cybercrime, corporate crime, identify theft, and cyber terrorism. Digital forensics tasks include identification of cyber threats and intrusions, assessment of cyberattack impacts, and cause and origin investigation. Successful students will gain the knowledge and skills to transfer to four-year degree programs for further specialization or to gain employment with government or private sector cyber security units.

The goals of this program are to:

- introduce students to the skills and knowledge needed to work within the field of cybersecurity;
- introduce students to critical thinking skills by emphasizing thoroughness of topic research and exploration as well as creative problem solving within their discipline and related disciplines; and
- prepare students with an understanding of proactive approaches to deter cybercrime and to investigate and apprehend those who break the law.

Successful graduates from this program will be able to:

- express knowledge of fundamental criminal justice, information assurance, and computer forensics;
- utilize critical thinking skills by emphasizing thoroughness of topic research and exploration as well as creative problem solving within their discipline and related disciplines; and
- express knowledge of proactive approaches to investigating and apprehending, or deterring cybercriminals.

Transfer Information
This associate in science degree is designed to prepare the graduate for transfer to a four-year institution for more specialized study in a Cybersecurity career field before entry into the workforce.

Program of Study

1st Year

1st-Semester		Credits	Utica College Equivalent	Credits
IS 207	Microcomputer Operating Systems	3	CYB 107 Computer Hardware and Peripherals	3
CJ 241	Understanding & Mng Cybercrime	3	CYB 228 Cyber Technology for Criminal Justice	3
EN 111	College Writing	3	ENG 101 Written Communication I	3
FS 100	First Year Student Seminar	1	UCC 1FE First Year Seminar	1
	Mathematics Selective	3	Mathematics Selective	3
SS 151	Intro Psychology	3	PSY 101 Introduction to Psychology	3

2nd-Semester		Credits	Utica College Equivalent	Credits
CJ 243	Intro to Information Security	3	CYB 333 Information Security	3
CJ 244	Cyber Intelligence and Counterintelligence	3	CYB 358 Introduction to Intelligence Studies	3
SS 136	Criminology	3	SOC 274 Criminology	3
EN 112	College Literature	3	ENG 135 Introduction to Literature	3
	Science Elective	3	Science Elective	3
	Physical Education Activity	1	Physical Education Elective	1

2nd Year

3rd-Semester		Credits	Utica College Equivalent	Credits
CJ 273	Network Defense & Countermeasures	3	CYB 362 Info System Threats, Attacks & Defenses	3
	EN/FL/HU Selective	3	Liberal Arts Elective	3
CJ 261	Computer Forensics & Invest	3	CYB 355 Cybercrime Invstg & Forens I	3

SC 150	Forensic Science I	4	Science Elective	4
MA 127	Mathematical Statistics I	3	MAT 112 Basic Statistics	3

EN/FL/HU Elective: Student must select one (1) from the following categories: Other World Civilizations, The Arts or Foreign Language.
Mathematics Elective: Must be MA 124 or higher.
Physical Education Activity: Students may take PE 140 in place of two one-credit activities.

4th-Semester		**Credits**	**Utica College Equivalent**	**Credits**
CJ 124	Criminal Procedure Law	3	CYB 1FE Criminal Justice Elective	3
CJ 262	Adv Computer Forensics & Inves	3	CYB 356 Cybercrime Invstg & Forens II	3
	EN/FL/HU Elective	3	Liberal Arts Elective	3
	Social Science_General Education Selective	3	Varies	3
	Physical Education Activity	1	Physical Education Elective	1
	American History or Western Civilization Selective (See below)	3	History or Government Elective	3

Physical Education Activity: Students may take PE 140 in place of two one-credit activities.

American History or Western Civilization Selective		**Credits**	**Utica College Equivalent**	**Credits**
Student must select one from:				
SS 111	History of Early Western Civilization	3	TRN 1CV1 Transfer-Civilization I	3
SS 112	History of Modern Western Civilization	3	HIS 165 Europe and the World	3
SS 121	American History to 1865	3	HIS 126 America 1500-1877	3
SS 122	American History Since 1865	3	HIS 127 America 1877 to the Present	3
SS 141	American Government	3	GOV 101 Intro to Politics and American Government	3
SS 145	World Politics	3	GOV 261 International Relations	3

Students should consult with their academic advisor for appropriate course selections.

Total Credit Hours:	64	Max Transfer Credit Hours:	60

Student ID:_____
Student Name:_____
Adviser Name:_____

Publication Undergraduate Catalog
Program: Cybersecurity (B.S.)
Minimum Credits Required:_____

Cybersecurity (B.S.) - Hegis Code 2105
(Bachelor of Science Degree)

The assurance of information during transmission or while in storage and the security of critical information infrastructures are a major responsibility of government and the private sector. Securing computers and computer networks, and conducting investigations of cybercrimes and forensic analysis of digital devices are principal methods of securing cyberspace. Through a multidisciplinary approach integrating criminology, criminal justice, economic crime, and computer science, students will be prepared for entry-level positions either in cybercrime investigation and computer forensics or the security of information stored in or transmitted by computers and computer networks.

Utica College offers an on-ground undergraduate program in Cybersecurity; there is also an undergraduate online program for transfer students. The online BS in Cybersecurity degree is a completion program, which means that students must have an Associate's degree from an accredited institution prior to enrolling in the program. Students transferring into this program without an Associate's degree, but who have at least 57 transferable credits from a four-year institution may be considered. Additionally, students who show academic promise and don't meet the prior 2 requirements may also be considered. However, all students must meet the New York State Education Department's mandated liberal arts requirements. A success coach will create an academic plan for students to ensure all core, liberal arts, and graduation requirements are satisfied. Please see Utica's Academic Requirements for more information on Utica's Core and liberal arts requirements for transfer students.

There is also an online master's program in Cybersecurity. For more information on the master's program, consult the UC graduate catalog.

Learning Objectives

A student who completes the undergraduate major in Cybersecurity will demonstrate the following either orally or in writing:

Identify the main stages of the criminal justice process and the agencies responsible for administering justice.

Classify the principles of Cybersecurity.

Demonstrate critical thinking, research and writing skills related to cybersecurity.

Discuss technical, legal, ethical, social, and cultural aspects of cybersecurity.

Classify the principles of cybersecurity.

Investigate network-based crimes and intrusions.

The faculty has identified several advising specializations, groups of courses within the elective offerings that provide students with a focused path of study. Elective specializations are not formal parts of the curriculum but options within the elective section of the program. Students do not have to focus on a specialization but can with the consent of their advisor, simply elect to take courses that meet their needs or interests. The specializations identified by the faculty are:

Cybercrime and Fraud Investigation

Cyber Operations

Information Assurance

Network Forensics and Intrusion Investigation

Special Requirements

Students in Cybersecurity are required to achieve a cumulative grade point average of at least 2.5 (on a 4.0 scale) across major, major-related, major elective, and major concentration courses by the first semester of their junior year and to maintain that average thereafter.

Academic Requirements

Core: 34-55 Credit Hours

Major Course Requirements

Course Name	HCCC Course	Grade	Credits
CRJ 101 - Seminar in Justice Studies (1)			
CRJ 103 - Introduction to Criminal Justice (3)	CJ 120		3
CYB 333 - Information Security (3)	CJ 243		3
CYB 362 - Information System Threats, Attacks, and Defense (3)	CJ 273		3
CYB 107 - Computer Hardware and Peripherals (3)	IS 207		3
or			
CYB 228 - Cyber Technology for Criminal Justice (3)	CJ 241		3
CYB 205 - Software Foundations for Cybersecurity (3)			

Course Name	HCCC Course	Grade	Credits
or			
CSC 207 - Linux for Security and Forensics (3)			
CRJ 335 - Cybercrime Law and Investigations (3)			
or			
GOV 341 - Jurisprudence of the Criminal Law (3)			

Professional Development

Course Name

CRJ 461 - Proseminar in Justice Studies (3			
CRJ 470 - Criminal Justice - Internship (6 to 15) (6 credits only) or CRJ 475 - Senior Project (3)			

25-28 Credit Hours

Note:

*Only available to online students enrolled in the major or students with appropriate professional criminal justice work experience, with permission from the director of the program.

Major-Related Requirements

Course Name	HCCC Course	Grade	Credits
PHI 107 - Ethics (3)	HU 158**		3
• *or*			
PHI 108 - Professional Ethics (3)			
SOC 274 - Criminology (3)	SS 136		3
SOC 376 - Criminological Research Methods (3)			
MAT 112 - Basic Statistics (3)	MA 127		3
• *or*			
PSY 211 - Statistics in the Behavioral Sciences (3)			
• *or*			
SOC 211 - Statistics in the Behavioral Sciences (3)	SS 235**		3
• *or*			
ECN 241 - Statistics (3)			
MAT 147 - Mathematics for Cyber Security (3)			

15 Credit Hours

Major Specializations

Each student must select one of the following specializations:

Cybercrime and Fraud Investigation

Course Name	HCCC Course	Grade	Credits
CRJ 232 - Economic Crime Theory (3)			
• *or*			
CRJ 321 - White-collar Criminology (3)			
CSC 338 - Applied Cryptography (3)			
• *or*			
CYB 348 - Information Assurance Risk and Compliance (3)			

CYB 355 - Cyber Crime Investigations and Forensics I (3)	CJ 261		3
CYB 356 - Cyber Crime Investigations and Forensics II (3)	CJ 262		3
CYB 455 - Cyber Crime Investigations and Forensics III (3)			
CRJ 347 - Fraud Prevention and Detection Technologies (3)			
CRJ 354 - Payment Systems and Fraud (3)			

Cyber Operations

Course Name	HCCC Course	Grade	Credits
CSC 101 - Computer Science I (0,3)	IS 124		1-3
CSC 316 - Object-Oriented Programming (3)	IS 222**		3
CYB 338 - Applied Cryptography (3)			
CYB 339 - Cyber Operations Tools (3)			
CYB 438 - System Vulnerability Assessments (3)			
CYB 439 - Introduction to Malware Analysis (3)			
CSC 323 - Introduction to Networks (3)			
or			
CYB 337 - Computer Network Investigations (3)			

Information Assurance

Course Name	HCCC Course	Grade	Credits
CSC 101 - Computer Science I (0,3)	IS 124		1-3
CSC 201 - Discrete Mathematics I (4)			
CSC 225 - Introduction to the UNIX Operating System (0,3)			
CSC 316 - Object-Oriented Programming (3)	IS 222**		3
CYB 348 - Information Assurance Risk and Compliance (3)			
CYB 438 - System Vulnerability Assessments (3)			
CSC 323 - Introduction to Networks (3)			
or			
CYB 337 - Computer Network Investigations (3)			

Network Forensics and Intrusion Investigation

Course Name	HCCC Course	Grade	Credits
CSC 101 - Computer Science I (0,3)	IS 124		3
CYB 337 - Computer Network Investigations (3)			
CYB 355 - Cyber Crime Investigations and Forensics I (3)	CJ 261		3
CYB 356 - Cyber Crime Investigations and Forensics II (3)	CJ 262		3
CYB 438 - System Vulnerability Assessments (3)			
CYB 455 - Cyber Crime Investigations and Forensics III (3)			
CYB 457 - Network Forensics (3)			

Electives

The student must complete sufficient elective courses to earn at least the minimum credit hours required for this degree, and at least 60 credit hours of the 120 required must be in the liberal arts and sciences.

Notes:

**These classes indicate additional equivalent courses that may be transferred that are not expressly part of the Associate's Curriculum. Some classes taken, that are not listed here, may also be accepted. They may be transferred in place of other credits taken in the Associate's program, up to a total of 60 credits.