Appendix A - Transfer Course Equivalencies

Effective dates: _October 1, 2018_ through _September 30, 2021_

	SUNY Erie Community College A.S. – Computer Science			SUNY Canton BS– Cybersecurity (2698)		
Semester	**Course #**	**Course Name**	**Cr**	**Course #**	**Course Name**	**Cr**
1	CS 121	Computer Science I	4	CITA 152	Computer Logic	3
				CITA 165	Survey of Cybersecurity	3
	EN 110	College Composition	3	ENGL 101	Composition and the Spoken Word (GER 10)	3
	MT 181	Calculus and Analytic Geometry I	4	MATH___	Math Elective* (GER 1)	3
		SUNY Gen Ed Liberal Arts Elective (GER 4, 5, 6, 8 or 9)	3		SUNY Gen. Ed. Elective (GER 4, 5, 6, 7, 8, 9)	3
Semester	**Course #**	**Course Name**	**Cr**	**Course #**	**Course Name**	**Cr**
2				CITA 170	Computer Concepts and Operating Systems	3
				CITA 171	Operating Systems Use & Administration	3
				MATH 141	Statistics (GER 1)	3
		SUNY Gen Ed Natural Science Elective (GER 2)	3-4		SUNY Gen. Ed. Science Elective** (GER 2)	3
	EN 111	Composition and Interpretation of Literature	3		SUNY Gen. Ed. Elective (GER 4, 5, 6, 7, 8, 9)	3
Semester	**Course #**	**Course Name**	**Cr**	**Course #**	**Course Name**	**Cr**
3	CS 132	Computer Science II	4	CITA 180	Intro to Programming	4
				CITA 215	Database Concepts & Applications	3
	CS 211	Computer Networks and Internetworks	3	CITA 220	Data Communications & Network Tech	3
				CITA 221	Data Communications & Network Tech Lab	1
	EC 102 or 103	Macroeconomics or Microeconomics (Social Science Elective)	3	ECON 101 OR 103	Macroeconomics or Microeconomics (GER 3)	3
		SUNY Gen Ed Humanities Elective (GER 8 or 9)	3		SUNY Gen. Ed. Elective (GER 4, 5, 6, 7, 8, 9)	3
Semester	**Course #**	**Course Name**	**Cr**	**Course #**	**Course Name**	**Cr**
4				CITA 204	Systems Analysis & Design (WI)	3
				CITA 250	Information Security	3
		SUNY Gen Ed Humanities Elective (GER 8 or 9)	3		SUNY Gen. Ed. Elective (GER 4, 5, 6, 7, 8, 9)	3
		SUNY Gen Ed Liberal Arts Elective (GER 4, 5, or 6)	3		SUNY Gen. Ed. Elective (GER 4, 5, 6, 7, 8, 9)	3
	MT 182	Calculus and Analytic Geometry II	4		Liberal Arts Elective	3
Semester	**Course #**	**Course Name**	**Cr**	**Course #**	**Course Name**	**Cr**
5				CITA 300	Management Information Systems	3
				CITA 354	Incident Response and Disaster Recovery	3
				CITA 356	Network defense and Countermeasures	3
	MT 167	Discrete Mathematics	4	MATH 351	Discrete Mathematics (LA)	3
		SUNY Gen Ed Natural Science Elective	4		Liberal Arts Elective	3
Semester	**Course #**	**Course Name**	**Cr**	**Course #**	**Course Name**	**Cr**
6				BSAD 319	Professional Ethics	3
				CITA 352	Ethical Hacking and Penetration Testing	3
				CITA 360	Cryptology in Theory and Practice	3
				CITA 365	Digital Forensic Analysis	3
		SUNY Gen Ed Social Science Elective (GER 4, 5 or 6)	3		Liberal Arts Elective	3
					U/L Liberal Arts Elective	3
Semester	**Course #**	**Course Name**	**Cr**	**Course #**	**Course Name**	**Cr**
7				CITA 440	Network Management	3
				CITA 441	Network Management Lab	1
				CITA 455	Access Control, Authentication, and PKI	3
					Liberal Arts Elective	3
					Liberal Arts Elective	3
					U/L Liberal Arts Elective	3
Semester	**Course #**	**Course Name**	**Cr**	**Course #**	**Course Name**	**Cr**
8				CITA 450	Cybersecurity Body of Knowledge	3
				SOET 477	Capstone Project	3
					Liberal Arts Elective	3
					U/L Liberal Arts Elective	3
	Accepted Transfer Credit Total		**54**	**SUNY Program Credit Total**		**123**

Transfer credits for SUNY Erie Community College program requirements will be accepted as follows, however do not serve to fulfill requirements of SUNY Canton's <u>Cybersecurity</u> program:

SUNY Erie Community College			SUNY Canton		
Course #	Course Name	Cr	Course #	Course Name	Cr
CS 232	Advanced Data Structures	3	CITA 299	L/L CITA Elective	3
CS 221	Machine Organization and Assembly Language	3	CITA 299	L/L CITA Elective	3

Program Electives

ACCT, BSAD, ECON, FSMA, LEST

Additional Notes

L/L = Lower Level Courses (100/200)
U/L = Upper Level Courses (300/400)
GER = General Education Requirement

Seven of ten SUNY General Education Requirement academic areas (including mathematics and basic communication) and 30 credits of SUNY General Education courses must be completed within the first two years of full-time study of the program. The list of areas is 1. Mathematics; 2. Natural Sciences; 3. Social Sciences; 4. American History; 5. Western Civilization; 6. Other World Civilization; 7. Humanities, 8. Arts; 9. Foreign Language; 10. Basic Communication

*Minimum mathematics requirement is MATH 121 – College Algebra
**Physics course strongly recommended
All CITA courses presented for graduation must have a grade of C (or better) or transfer credit.
No more than three CITA credits with a course number below CITA 150 may be used for credit towards graduation.
All graduates must have a minimum of 45 U/L credits and a minimum of 60 Liberal Arts and Sciences credits.

STUDENT ELIGIBILITY: Graduates of <u>Associate of Science – Computer Science</u> program at <u>SUNY Erie Community College</u> must possess a **minimum cumulative grade point average of <u>2.0 on a 4.0 scale</u>**. SUNY Canton **assures acceptance for SUNY Erie Community College students who have <u>a cumulative GPA of 3.0 or better</u>**. Students are encouraged to apply during their last semester at SUNY Erie Community College.

Program Contact

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Canton, New York 13617
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wang@canton.edu

APPROVALS

SUNY Erie Community College:

[signature]   9/13/18

Timothy E. Cercone   Date
Department Chair, Mathematics/Computer Science

SUNY Canton:

[signature]   9/28/2018

Michael Newtown   Date
Dean, Canino School of Science, Health, and
Criminal Justice

[signature]   9/28/2018

Dr. Minhua Wang   Date
Curriculum Coordinator, Cybersecurity

Master Articulation Agreement Between
State University of New York (SUNY) Canton
and
Erie Community College

Effective date: _December 1, 2016_

This master articulation agreement is intended to facilitate the transfer of graduates from **Erie Community College** to SUNY Canton. The objectives, terms and conditions of this master agreement are set forth as follows:

OBJECTIVES

1. To attract qualified students to **Erie Community College** and SUNY Canton.

2. To facilitate upward educational and career mobility by increasing accessibility to baccalaureate education for qualified individuals.

3. To provide students with advisement in academic and career planning throughout their program of study.

4. To reduce unnecessary repetition of general education and curricular content by providing seamless articulation opportunities.

5. To facilitate communication and academic coordination between faculty, students, and administrators at each institution.

ELIGIBILITY/ADMISSION REQUIREMENTS

1. Students must complete the admission process at SUNY Canton.

2. Students must meet the academic requirements listed in the "_Terms of Agreement_".

TERMS OF AGREEMENT

Erie Community College students who have completed an Associates program at **Erie Community College** will be accepted into a baccalaureate program at <u>SUNY Canton</u>.

STUDENT ELIGIBILITY: Graduates of <u>Erie Community College</u> must possess a **minimum cumulative grade point average of <u>2.0 on a 4.0 scale</u>**.[1] SUNY Canton **assures acceptance for Erie Community College students who have <u>a cumulative GPA of 2.5 or better</u>**. Students are encouraged to apply during their last semester at Erie Community College.

TRANSFER CREDIT: A grade of C or better must be earned for each transfer credit of courses applicable to the Bachelor's Degree. (See _Appendix A_ for list of specific college level courses and program requirements.)

DEGREE REQUIREMENTS: SUNY Canton requires that <u>120 or more credits</u>[1] be completed in order to earn a Bachelor's Degree. To be eligible for graduation with a Bachelor's Degree, a minimum of <u>30</u> credits must be taken in residence at SUNY Canton. Fifteen (15) credits must be taken in the major, or acceptable cognates as determined by the department at SUNY Canton. Students will be required to matriculate in accordance with the guidelines as specified in the policies of the academic catalog.

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[1] _Exceptions may apply. Program-specific requirements are stated on the individual program's current course equivalency chart on file._

IMPLEMENTATION: Students transferring under this agreement into SUNY Canton will, whenever possible, be provided with a projected outline of their individual requirements for the Bachelor's Degree.

LOCATION: SUNY Canton reserves the right to use classroom space at alternative locations and to offer all, or part, of this degree program online.

FINANCIAL AID: A student accepted into SUNY Canton under this agreement is eligible to participate in all financial aid, grants, and scholarship programs customarily open to transfer students.

PROGRAM CHANGES: If either SUNY Canton or Erie Community College makes changes to their respective program(s), those changes will be communicated to the other college for review of the respective course equivalency chart.

SUNY Canton Contact Information:

Office of the Provost/VP of Academic Affairs
Erin Voisin, Special Projects Coordinator to the Provost
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www.canton.edu

Erie Community College Contact Information:

Coordinator of Advanced Studies
Deborah Schmitt
6205 Main Street
Williamsville, NY 14221
Room G143
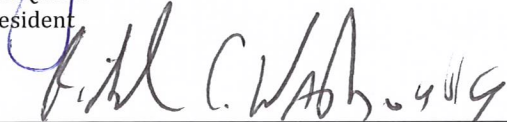716-851-1270
Schmitt@ecc.edu
www.ecc.edu

APPROVALS

We, the undersigned, agree to the above conditions established for the articulation agreement between *Erie Community College* and *SUNY Canton*.

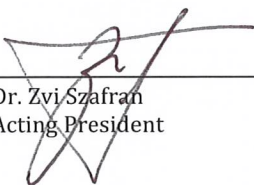### Representatives of Erie Community College:

_____   5/30/17
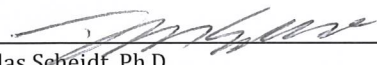Jack Quinn   _____
President   Date

_____   5/25/17
Richard Washousky   _____
Provost/Executive Vice President for Academic Affairs   Date

Representatives of SUNY Canton:

_____   6-21-17
Dr. Zvi Szafran   _____
Acting President   Date

_____   6 20 17
Douglas Scheidt, Ph.D.   _____
Provost/VP of Academic Affairs   Date