

**AGREEMENT  
FOR  
TRANSFER ARTICULATION  
BETWEEN**

**STATE UNIVERSITY OF NEW YORK AT OSWEGO  
BACHELOR OF SCIENCE in ELECTRICAL AND COMPUTER ENGINEERING**

**AND**

**CAYUGA COMMUNITY COLLEGE  
ASSOCIATE OF SCIENCE in LIBERAL ARTS & SCIENCES/MATHEMATICS  
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**INTRODUCTION**

**This document constitutes an agreement regarding articulation for the program identified between the State University of New York at Oswego and Cayuga Community College. The agreement includes the parallel program where full junior status will be afforded Cayuga Community College graduates as well as identifies other program options and appropriate course credit equivalencies.**

**OBJECTIVES**

- \* To attract qualified students to Cayuga Community College and to the State University of New York at Oswego.**
- \* To encourage academic coordination and other faculty/administrative interactions, including curricular reviews and administrative streamlining.**
- \* To provide for the exchange of information on successes and failures of this transfer program in order that improvements might be made.**

**PROGRAM to PROGRAM ARTICULATION**

<b>Cayuga Community College Liberal Arts &amp; Sciences/Mathematics A.S</b>	<b>State University of New York at Oswego Electrical and Computer Engineering B.S.</b>
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**Equivalency Table**

Course #	Course Title	Credits		Course #	Course Title	Credits
ENGL 101	Freshman English I	3		ENG 102	Composition II	3
MATH 108	Calculus I	4		MAT 210	Calculus I	4
MATH 214	Statistics	3		MAT 179	Measuring Life	3
	Science (PHYS 200 Recommended)	4			Natural Science (PHY 112 Recommended)	4
	Health or Physical Education	1			Elective	1
ENGL 102	Freshman English II	3		ENG 204	Writing About Literature	3
MATH 201	Calculus II	4		MAT 220	Calculus II	4
MATH 203	Linear Algebra	3		MAT 230	Matrix Algebra	3
	Science (PHYS 201 Recommended)	4			Natural Science (PHY 213 Recommended)	4
	General Elective DESIJ	3			DISJ	3
ENGL 221 or ENGL 222	Effective Speech: Public Address or Effective Speech: Group Discussion	3		COM 210	Critical Thinking and Public Speaking or Elective	3
MATH 202	Calculus III	4		MAT 240	Multivariable Calculus	4
	Computer Science Elective (CS 222 or CS 238 Recommended)	3			Elective (CSC 212 Recommended)	3
HIST 103 or HIST 104 or HIST 105	Pre-History & Early American History or 19th Century American History or America in the 20th & 21st Centuries	3		HIS 202 or HIS 203	History of the United States to 1865 or History of the United States Since 1865	3
MATH 212	Discrete Mathematics	3		MAT 215	Intro to Discrete Mathematics	3
MATH 204	Differential Equations	4		MAT 348	Ordinary Differential Equations	4
	General Education World History & Global Awareness				General Education World History & Global Awareness	
	Behavioral/Social Sciences	6			Behavioral/Social Sciences	6
	Elective (CHEM 103 Recommended)	3			Elective (CHE 111 Recommended)	3
	<b>TOTAL CREDITS</b>	<b>64</b>			<b>TOTAL CREDITS TRANSFERRED</b>	<b>64</b>

**Remaining Coursework**  
**Cayuga Community College: Liberal Arts & Sciences/Mathematics A.S**  
**SUNY Oswego: Electrical and Computer Engineering B.S.**

Course #	Course Title	Credits/Transferred
<b>MAJOR CORE REQUIREMENTS (89-92 cr)</b>		
<b>CORE REQUIREMENTS (38-39 cr)</b>		
ECE 101	Introduction to Engineering	3
ECE 211	Electric Circuits	4
ECE 233	Signals and Systems	4
ECE 271	Digital Systems	4
ECE 314	Microelectronic Circuits	4
ECE 344	Electromagnetics	3
ECE 375	Microprocessor Applications	4
ECE 401	ECE Seminar	1
ECE 454	Communications Systems	4
ECE 475	Computer Architecture	4
CSC 212 or ECE 270	Principles of Programming or C/C++ Programming Language	Transferred (CS 222 or CS 238) or 4
<b>REQUIRED TRACK (6-8 cr)</b>		
Select <b>one</b> of the two tracks: 1. Electrical Engineering Track (8 cr) ECE 321 Power Circuits and Systems AND ECE 365 Control Systems 2. Computer Engineering Track (6 cr) CSC 241 Abstract Data Types and Programming Methodology and Select 1: CSC 322 Systems Programming CSC 435 Web Services OR CSC 445 Computer Networks		6-8
<b>ELECTIVE REQUIREMENTS (9 cr)</b>		
	Science/Math/Engineering, under advisement	Transferred (MATH 203, or MATH 204 or MATH 212)
	ECE, under advisement	6
<b>COGNATE REQUIREMENTS (31 cr)</b>		
MAT 210	Calculus I	Transferred (MATH 108)
MAT 220	Calculus II	Transferred (MATH 201)
MAT 240	Multivariable Calculus	Transferred (MATH 202)
MAT 249	Engineering Mathematics	4
MAT 339	Discrete Mathematics and Statistics (Students who complete MAT 215 and 318 with a C- or better in each are exempt from taking MAT 339.)	3
CHE 111	General Chemistry	Transferred (CHEM 103) or 4
PHY 112	General University Physics I	Transferred (PHYS 200) or 4
PHY 213	General University Physics II	Transferred (PHYS 201) or 4
<b>CAPSTONE REQUIREMENTS (5 cr)</b>		
ECE 491	Capstone Design Proposal	1

ECE 492	Capstone Design	4
<b>GRADUATION REQUIREMENTS*</b>		
300-499	Upper Division Electives	0-5*
<b>GENERAL EDUCATION REQUIREMENTS</b>		
Met with AS Degree from Cayuga Community College		
<b>Total Credits at SUNY Oswego</b>		<b>61-64*</b>
*Remaining credits are dependent on course choices. Transfers from Cayuga Community College must complete a minimum of 123 credits and have 42 upper division credits to graduate from Oswego with a degree in Electrical and Computer Engineering.		

**Notes:**

Students who transfer to Oswego after completing SUNY General Education (SUNY-GER, July 2010 or SUNY GE, Fall 2023) or the equivalent at a previous institution (or institutions) are exempt from all of Oswego's specific general education requirements.

Bachelor's degree graduation requirements:

- 120-128 credits, depending on major
- Minimum of 30 credits and ½ the major completed at Oswego
- 42 upper division credits (300-400 level courses)

**TERMS**

**Cayuga Community College** agrees to promulgate information and to advise interested students of the provision of general and specific sections of this agreement.

Qualified transfer students will be able to complete degree requirements with a normal load in four semesters in the program identified.

The **State University of New York at Oswego** agrees to accept as juniors those students who have successfully completed the courses outlined in the degree program identified in this agreement. The grade point average for **Cayuga Community College** degree graduates for acceptance to **State University of New York at Oswego** shall be 2.3 or above.

Students must attain a grade of C- or better in all core courses applied to the **State University of New York at Oswego** for transfer credits. "D" grades in other courses will be applied as elective credit.

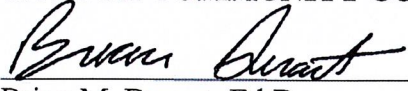
On a routine basis, faculty and administrative staff from both institutions will confer on matters of curriculum content and other program details.

**Review/Revision Agreement**

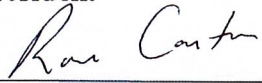
This agreement will become effective upon signature and shall be reviewed in three years or when substantive changes are made in the curriculum on either campus.

**APPROVED FOR:**

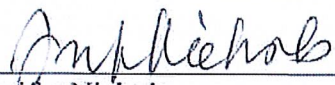
**CAYUGA COMMUNITY COLLEGE**

  
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Brian M. Durant, Ed.D.,  
President

1/30/2024  
Date


  
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Ronald G. Cantor, Ph.D.,  
Provost and Vice President for Academic Affairs

1/30/2024  
Date

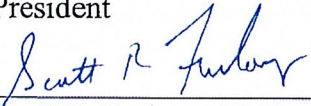
  
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Jennifer Nichols  
Chair, Division of Natural and Health Sciences, Mathematics and Technology

1/30/2024  
Date

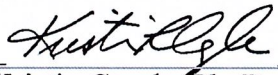
**STATE UNIVERSITY OF NEW YORK AT OSWEGO**

  
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Peter O. Nwosu, Ph.D.,  
President

2/8/24  
Date

  
\_\_\_\_\_  
Scott R. Furlong, Ph.D.,  
Provost, Vice President for Academic Affairs

02/01/2024  
Date

  
\_\_\_\_\_  
Kristin Croyle, Ph. D.,  
Dean, College of Liberal Arts and Sciences

02/01/2024  
Date