

**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 APPLIED SCIENCE in ELECTRICAL TECHNOLOGY-
ELECTRONICS**

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

Cayuga Community College Electrical Technology-Electronics A.A.S	State University of New York at Oswego Electrical and Computer Engineering B.S.
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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
ELEC 101	Electrical Circuits	4	TEL 240	Electronics Technology	4
ELEC 105	Digital Electronics	4		Elective	1
	Math Elective	3		Math Elective	3
	Health or Physical Education	1		Elective	1
ENGL 102 <i>OR</i> ENGL 270	Freshman English II (Recommended) <i>OR</i> Technical Writing	3	ENG 204 or TED 209	Writing About Literature (Recommended) or Technical Writing & Literacy	3
ELEC 102	Basic Electronics	4		Elective	4
ELEC 107	Fundamentals of Microcomputers	4	ECE 271	Digital Systems (ELEC 105 & ELEC 107)	4
MATH 114 <i>OR</i> MATH 104	Applied Mathematics for Technologists <i>OR</i> College Algebra and Trigonometry (or higher)	3	MAT 104	Elective or College Algebra	3
CS 200 <i>OR</i> CS 222 <i>OR</i> CS 238	Programming in Visual Basic <i>OR</i> Programming in C/C++ <i>OR</i> Java (Recommended)	3	CSC 120 or CSC 212	Introduction to Programming & Programming Languages or Principles of Programming (Recommended)	3
ELEC 201	Intermediate Electronics	4		Elective	4
ELEC 208	Radio Frequency Communications	4		Elective	4
PHYS 103	General Physics I	4	PHY 111	College Physics I	4
	Technical Elective	3		Elective	3
	Behavioral/Social Sciences	3		Behavioral/Social Sciences	3
ELEC 204	Industrial Electronics	4		Elective	4
ELEC 209	Programmable Logic Controllers	3		Elective	3
ENGR 207	Quality Assurance	3		Elective	3
PHYS 104	General Physics II	4	PHY 212	College Physics II	4
	TOTAL CREDITS	64		TOTAL CREDITS TRANSFERRED	64

Remaining Coursework
Cayuga Community College: Electrical Technology-Electronics A.A.S
SUNY Oswego: Electrical and Computer Engineering B.S.

Course #	Course Title	Credits/Transferred
GENERAL EDUCATION REQUIREMENTS		
	Writing (Basic Communication)	Transferred (ENG 102)
	Mathematics	Transferred (MATH 114/104)
	Foreign Language (to 102-level)	0-6
	Natural Science	Transferred (PHYS 103)
	World Awareness	3
	Diversity, Identity and Social Justice in the US	3
	Student Choice -- Select five courses from four or more categories:	15 (6-9 credits remaining)
	<ul style="list-style-type: none"> • Natural Sciences • Social & Behavioral Sciences 	Transferred (PHYS 104)
	<ul style="list-style-type: none"> • American History • Humanities 	Transferred (Social/Behavioral Sciences Elective)
	<ul style="list-style-type: none"> • Fine & Performing Arts • World Awareness 	Transferred (ENGL 102)
MAJOR CORE REQUIREMENTS (89-92 cr)		
CORE REQUIREMENTS (38-39 cr)		
ECE 101	Introduction to Engineering	3
ECE 211	Electric Circuits	4
ECE 233	Signals and Systems	4
ECE 271	Digital Systems	Transferred (ELEC 105 & ELEC 107)
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
REQUIRED TRACK (6-8 cr)		
Select one 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

ELECTIVE REQUIREMENTS (9 cr)		
	Science/Math/Engineering, under advisement	Transferred (ELEC 208 or ELEC 209)
	ECE, under advisement	6
COGNATE REQUIREMENTS (31 cr)		
MAT 210	Calculus I	4
MAT 220	Calculus II	4
MAT 240	Multivariable Calculus	4
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	4
PHY 112	General University Physics I	4
PHY 213	General University Physics II	4
CAPSTONE REQUIREMENTS (5 cr)		
ECE 491	Capstone Design Proposal	1
ECE 492	Capstone Design	4
GRADUATION REQUIREMENTS*		
300-499	Upper Division Elective	3
300-499	Upper Division Elective	3
300-499	Upper Division Elective	3
300-499	Upper Division Elective	3
Total Credits at SUNY Oswego		103*
*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.

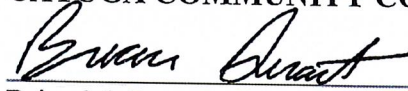
On a routine basis, faculty and administrative staff from both institutions will confer on matters of curriculum content and other program details.

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:

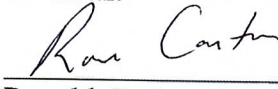
CAYUGA COMMUNITY COLLEGE



Brian M. Durant, Ed.D.,
President

1/30/2024

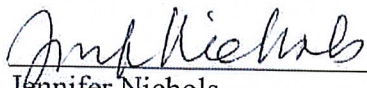
Date



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

1/30/2024

Date




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

1/30/2024

Date

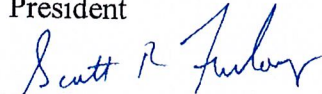
STATE UNIVERSITY OF NEW YORK AT OSWEGO



Peter O. Nwosu, Ph.D.,
President

2/8/24

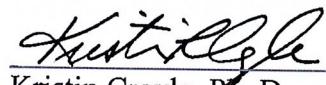
Date



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