AGREEMENT
FOR
TRANSFER ARTICULATION
BETWEEN

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

AND

JEFFERSON COMMUNITY COLLEGE
ASSOCIATE OF SCIENCE in 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 Jefferson Community College. The agreement includes the parallel program where full junior status will be afforded Jefferson Community College graduates as well as identifies other program options and appropriate course credit equivalencies.

OBJECTIVES

*** To attract qualified students to Jefferson 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

Jefferson Community College Mathematics, A.S.	State University of New York at Oswego Electrical and Computer Engineering B.S.

Equivalency Table

Course #	Course Title	Credits		Course #	Course Title	Credits
INT 111	College Foundations	1			Elective	1
MTH 174	Mathematical Probability and Statistics 1	3		MAT 158	Intro to Statistics A	3
MTH 221	Calculus 1	4		MAT 210	Calculus I	4
MTH 222	Calculus 2	4		MAT 220	Calculus II	4
MTH 241	Calculus 3	4		MAT 240	Multivariable Calculus	4
MTH 242 or MTH 245	Differential Equations or Linear Algebra	3		MAT 348 or MAT 230	Ordinary Differential Equations or Matrix Algebra	3
MTH 184 or MTH 231 or MTH 242	Mathematical Probability and Statistics 2 or Discrete Math or Differential Equations (Recommended) or higher	3		MAT 258 or MAT 215 or MAT 348	Intro to Statistics B Intro to Discrete Math Ordinary Differential Equations (Recommended)	3
CIS 116	Introduction to Programming	3		CSC 120	Introduction to Programming and Programming Languages	3
ENG 101	Research and Composition	3		ENG 102	Composition II	3
ENG 102	Literature and Composition	3		ENG 204	Writing About Literature	3
Humanities/Social Science Elective		3			SUNY GE	3
Humanities/Social Science Elective		6			SUNY GE	6
Natural Science Elective (NS) Choose 2 of the following:		8				8
BIO 131	Principles of Biology 1: Cell & Molecular Biology			BIO 120	Molecular & Cellular Foundations	
BIO 132	Principles of Biology 2: Evolution, Diversity, & Ecology				Elective	
BIO 202	Microbiology			BIO 310	Microbiology	
BIO 217	Vertebrate Biology 1				Elective	
BIO 218	Vertebrate Biology 2				Elective	
BIO 251	Anatomy & Physiology 1			BIO 305	Human Anatomy & Physiology I	
BIO 252	Anatomy & Physiology 2			BIO 306	Human Anatomy & Physiology II	
CHE 131	General Chemistry 1 (Recommended)			CHE 111	General Chemistry I (Recommended)	
CHE 132	General Chemistry 2			CHE 212	General Chemistry II	
CHE 211	Organic Chemistry 1 (Recommended)			CHE 331/333	Organic Chemistry/Lab (Recommended)	
CHE 212	Organic Chemistry 2			CHE 332/334	Organic Chemistry II/Lab	
GEO 131	Physical Geology			GEO 100/101	Physical Geology/Lab	

GEO 132	Historical Geology			GEO 200/201	Historical Geology/Lab	
GEO 141	Astronomy			AST 100	Astronomy	
GEO 144	Meteorology			MET 100	Meteorology	
PHY 131	General Physics 1			PHY 111	College Physics I	
PHY 132	General Physics 2			PHY 212	College Physics II	
PHY 143	Science & Engineering Physics 1 (Recommended)			PHY 112	General University Physics I (Recommended)	
PHY 144	Science & Engineering Physics 2			PHY 313	General University Physics III	
PHY 145	Science & Engineering Physics 3 (Recommended)			PHY 213	General University Physics II Recommended)	
SCI 199	Interdisciplinary Science & Mathematics				Elective	
Social Science Elective		6			SUNY GE	3
Diversity: Equity, Inclusion and Social Justice		3			SUNY GE	3
Restricted Elective Choose 1 of the following		3				3
MTH 184	Mathematical Probability and Statistics 2			MAT 258	Intro to Statistics B	
MTH 231	Discrete Math			MAT 215	Intro to Discrete Math	
MTH 242	Differential Equations or higher			MAT 348	Ordinary Differential Equations	
PHY 131	General Physics I or higher			PHY 11	College Physics I	
SCI 199	Interdisciplinary Science & Mathematics				Elective	
BIO 200	Genetics			BIO 315	Genetics	
BIO 201	Ecology			BIO 320	Introductory Ecology	
CHE 215	Quantitative Analytical Chemistry			CHE 322	Analytical Chemistry	
CIS 216	Advanced Programming (Recommended)			CSC 212	Advanced Programming (Recommended)	
Free Elective		6			Elective	6
Physical Education Requirements		2			Elective	2
TOTAL CREDITS		64		**TOTAL CREDITS TRANSFERRED**		**64**

Remaining Coursework
Jefferson Community College: Mathematics, A.S.
SUNY Oswego: Electrical and Computer Engineering B.S.

Course #	Course Title	Credits/Transferred
	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	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	3-4/Transferred (CIS 216)
	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	3/Transferred (MTH 242 or CHE 211)
	ECE, under advisement	6
	COGNATE REQUIREMENTS (31 cr)	
MAT 210	Calculus I	Transferred (MTH 221)
MAT 220	Calculus II	Transferred (MTH 222)
MAT 240	Multivariable Calculus	Transferred (MTH 241)
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/Transferred (CHE 131)
PHY 112	General University Physics I	4/Transferred (PHY 143)
PHY 213	General University Physics II	4/Transferred (PHY 145)
	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*	2
	GENERAL EDUCATION REQUIREMENTS	
	Met with coursework in AA/AS Degree from JCC	
	Total Credits at SUNY Oswego	**63***
*Remaining credits are dependent on course choices. Transfers from JCC 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

Jefferson 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 **Jefferson 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, major electives and cognate 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.

APPROVED FOR:

JEFFERSON COMMUNITY COLLEGE

Daniel J. Dupee, Ed.D. — 8/27/25
President — Date

Carey L. Goyette — 8/26/2025
Provost, Vice President of Academic and Student Affairs — Date

Donna Stevenson — 7/25/2025
Associate Vice President of STEM, Health Professions and Business — Date

STATE UNIVERSITY OF NEW YORK AT OSWEGO

Peter O. Nwosu, Ph.D., — 10/16/25
President — Date

Scott R. Furlong, Ph.D., — 8/27/2025
Provost, Vice President for Academic Affairs — Date

Kristin Croyle, Ph. D., — 9/30/2025
Dean, College of Liberal Arts and Sciences — Date