AGREEMENT
FOR
TRANSFER ARTICULATION
BETWEEN

STATE UNIVERSITY OF NEW YORK AT OSWEGO
BACHELOR OF SCIENCE in SOFTWARE ENGINEERING

AND

JEFFERSON COMMUNITY COLLEGE
ASSOCIATE OF SCIENCE in ENGINEERING SCIENCE

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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 Engineering Science, A.S.	State University of New York at Oswego Software Engineering B.S.

Equivalency Table

Course #	Course Title	Credits		Course #	Course Title	Credits
ENS 100	Engineering Orientation	1			Elective	1
ENS 101	Engineering Graphics	3		TEL 101	Technical & Computer Drafting	3
ENS 200	Engineering Design and Build	1			Elective	1
CIS 116	Introductory Programming	3		CSC 120	Introduction to Programming and Programming Languages	3
CHE 131	General Chemistry 1	4		CHE 111	General Chemistry	4
ENG 101	Research and Composition	3		ENG 102	Composition II	3
ENG 102	Literature and Composition	3		ENG 204	Writing About Literature	3
MTH 221	Calculus 1	4		MAT 210	Calculus I	4
MTH 222	Calculus 2	4		MAT 220	Calculus II	4
MTH 242	Differential Equations	4		MAT 348	Ordinary Differential Equations	4
MTH 241 OR MTH 245	Calculus 3 or Linear Algebra	3		MAT 240 or MAT 230	Multivariable Calculus or Matrix Algebra	3
PHY 143	Science & Engineering Physics 1	4		PHY 112	General University Physics I	4
PHY 145	Science & Engineering Physics 3	4		PHY 213	Gen University Physics II	4
Social Science Elective		3			SUNY GE	3
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Choose 1 Concentration Elective						
CHE 211	Organic Chemistry 1			CHE 331/333	Organic Chemistry/Lab	
ENS 207	Electrical Science	3		ECE 211	Electric Circuits	3
PHY 144	Science and Engineering Physic 2			PHY 213	Gen University Physics II	
Choose 5 Restricted Electives:		15				15
BIO 131	Principles of Biology I: Cell and Molecular Biology			BIO 120	Molecular & Cellular Foundations	
BIO 202	Microbiology			BIO 310	Microbiology	
CHE 132	General Chemistry 2			CHE 212	General Chemistry II	
CHE 211	Organic Chemistry 1			CHE 331/333	Organic Chemistry/Lab	
CHE 212	Organic Chemistry 2			CHE 332/334	Organic Chemistry II/Lab	
CHE 215	Quantitative Analytical Chemistry			CHE 322	Analytical Chemistry	
CIS 216	Advanced Programming (Recommended)			CSC 212	Principles of Programming	
CIS 250	Data Structures (Recommended)			CSC 241	Abstract Data Types and Programming Methodology	
ENS 201	Statics				Elective	
ENS 204	Dynamics				Elective	
ENS 206	Mechanics of Materials				Elective	
ENS 207	Electrical Science			ECE 211	Electric Circuits	
MTH 231	Discrete Mathematics (Recommended)			MAT 215	Intro to Discrete Math	

MTH 241	Calculus 3			MAT 240	Multivariable Calculus	
MTH 245	Linear Algebra			MAT 230	Matrix Algebra	
PHY 144	Science and Engineering Physic 2			PHY 313/313L	General University Physics III/Lab	
TOTAL CREDITS		65		**TOTAL CREDITS TRANSFERRED**		65

Remaining Coursework
Jefferson Community College: Engineering Science, A.S.
SUNY Oswego: Software Engineering B.S.

Course #	Course Title	Credits/Transferred
	CORE REQUIREMENTS (36 cr)	
CSC 212	Principles of Programming	3/Transferred (CIS 216)
CSC 221	Foundations of Computer Science	3
CSC 241	Abstract Data Types and Programming Methodology	3/Transferred (CIS 250)
ISC 300	Ethics and Social Policy in the Digital Age	3
CSC 322	Systems Programming	3
CSC 344	Programming Languages	3
CSC 365	Data Structures and Algorithms	3
CSC 380	Software Engineering	3
CSC 385	Software Quality	3
CSC 436	Software and Safety Requirements Engineering	3
CSC 480	Software Design	3
CSC 495	Software Engineering Project Seminar I	3
	ELECTIVE REQUIREMENTS (12 cr)	
Select 12 credits from other Computer Science department upper division courses under advisement.		12
	COGNATE REQUIREMENTS (31 cr)	
MAT 210	Calculus I	Transferred (MTH 221)
MAT 215	Introduction to Discrete Mathematics	3/Transferred (MTH 231)
MAT 220	Calculus II	Transferred (MTH 222)
Select 1: MAT 318 OR MAT 354	Statistics in the Sciences OR Mathematical Statistics A	3
PHY 112	General University Physics I	Transferred (PHY 143)
PHY 213	General University Physics II	Transferred (PHY 145)
Select nine (9) credits from other science or mathematics department courses, under advisement.		Transferred (MTH 242, MTH 241, MTH 245, or PHY 144)
	GRADUATION REQUIREMENTS*	
	Elective	4
	Elective	3
	GENERAL EDUCATION REQUIREMENTS	
	Met with coursework in AA/AS Degree from JCC	
	Total Credits at SUNY Oswego	**55***
*Remaining credits are dependent on course choices. Transfers from JCC must complete a minimum of 120 credits and have 42 upper division credits to graduate from Oswego with a degree in Software 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 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.

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:

JEFFERSON COMMUNITY COLLEGE

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

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

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

STATE UNIVERSITY OF NEW YORK AT OSWEGO

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

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

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