# AGREEMENT
## FOR
## TRANSFER ARTICULATION
## BETWEEN


## STATE UNIVERSITY OF NEW YORK AT OSWEGO
## BACHELOR OF ARTS in COMPUTER SCIENCE


## AND


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


## OBJECTIVES

* To attract qualified students to SUNY Broome 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.

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# PROGRAM to PROGRAM ARTICULATION

| SUNY Broome Community College Computer Science A.S. | | | State University of New York at Oswego Computer Science B.A. | | |
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### Equivalency Table

| Course # | Course Title | Credits | Course # | Course Title | Credits |
|---|---|---|---|---|---|
| | PED Elective | 1 | | Elective | 1 |
| CST 113 | Introduction to Programming | 3 | CST 120 | Introduction to Programming & Programming Languages | 3 |
| CST 117 | Problem Solving & Communication Tools | 3 | | Elective | 3 |
| CST 119 | Computer Concepts & Applications | 3 | CSC 101 | Tools for Computing | 3 |
| ENG 110 | College Writing I | 3 | ENG 102 | Composition II | 3 |
| MAT 181 | Calculus I | 4 | MAT 210 | Calculus I | 4 |
| | General Education Elective | 3 | | SUNY General Education | 3 |
| | General Education Elective | 3 | | SUNY General Education | 3 |
| CST 133 | Structured Programming | 3 | | Elective | 3 |
| CST 170 | Digital Logic | 3 | CSC 222 | Computer Organization & Programming | 3 |
| MAT 182 | Calculus II | 4 | MAT 220 | Calculus II | 4 |
| | General Education Elective | 3 | | SUNY General Education | 3 |
| | Natural Sciences Sequence | 4 | | SUNY General Education | 4 |
| CST 150 | Object Oriented Programming | 3 | CSC 212 | Principles of Programming | 3 |
| CST 220 | Microprocessors & Assembly Language Programming | 3 | | Elective | 3 |
| MAT 250 | Discrete Mathematics | 4 | MAT 215 | Introduction to Discrete Mathematics | 4 |
| | Natural Sciences Sequence | 4 | | SUNY General Education | 4 |
| CST 202 | Data Structures | 3 | CSC 241 | Abstract Data Types & Programming Methods | 3 |
| CST 225 | Introduction to Small Systems | 3 | | Elective | 3 |
| ENG 220 | Communicating About Ideas and Values | 3 | | Elective | 3 |
| | **TOTAL CREDITS** | 63 | | **TOTAL CREDITS TRANSFERRED** | 63 |

# Remaining Coursework
## SUNY Broome Community College: Computer Science A.S.
## SUNY Oswego: Computer Science B.A.

| Course # | Course Title | Credits/Transferred |
|---|---|---|
| | **MAJOR CORE REQUIREMENTS (24 cr)** | |
| CSC 212 | Principles of Programming | Transferred (CST 150) |
| CSC 221 | Foundations of Computer Science | 3 |
| CSC 241 | Abstract Data Types and Programming Methodology | Transferred (CST 202) |
| 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 |
| | | |
| | **MAJOR ELECTIVE REQUIREMENTS (12 cr)** | |
| Select 1 course | CSC 435 Web Services CSC 444 Compiler Construction<br>CSC 444 Compiler Construction<br>CSC 445 Computer Networks<br>CSC 454 System Simulation and Virtual Worlds<br>CSC 455 Computer Game Programming<br>CSC 459 Data Base Management Systems<br>CSC 466 Artificial Intelligence and Heuristic Programming<br>CSC 473 Internet of Things (IOT)/Sensors<br>CSC 474 Image Processing<br>CSC 480 Software Design<br>CSC 482 Software Deployment<br>CSC 495 - Software Engineering Project Seminar I<br>Credit: 3 | 3 |
| Select 3 courses | Select (9 cr) three additional Computer Science Department courses at the 300- or 400- level, under advisement. Electives must include at least one approved Writing course. | 9 |
| | | |
| | **COGNATE REQUIREMENTS (10 cr)** | |
| MAT 210 | Calculus I | Transferred (MAT 181) |
| MAT 215 | Introduction to Discrete Mathematics | Transferred (MAT 250) |
| Select 1:<br>MAT 318 or<br>MAT 354 | Statistics in the Sciences<br>Mathematical Statistics A | 3 |
| | | |
| | **GRADUATION REQUIREMENTS\*** | |
| 300-499 | Upper Division Elective/General Elective | 3 |
| 300-499 | Upper Division Elective/General Elective | 3 |
| 300-499 | Upper Division Elective/General Elective | 3 |
| 300-499 | Upper Division Elective/General Elective | 3 |

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|---|---|---|
| *Electives needed are usually dependent on course choices. Transfers from SUNY Broome must complete a minimum of 120 credits and have 42 upper division credits to graduate from Oswego with a BA in Computer Science. | | |
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| | **GENERAL EDUCATION REQUIREMENTS** | |
| | Met with AS Degree from SUNY Broome | |
| | | |
| | **Total Credits at SUNY Oswego** | 57 |

**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)
- no more than 54 hours in any one discipline can count towards a BA degree

## TERMS

**SUNY Broome 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 **SUNY Broome 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.
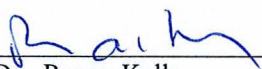
### Review/Revision Agreement

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:**

**SUNY BROOME COMMUNITY COLLEGE**

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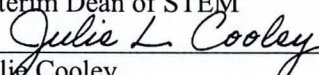Dr. Tony Hawkins
President, SUNY Broome Community College

11/15/23
Date

_____
Dr. Penny Kelly
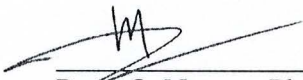Vice President for Academic Affairs, SUNY Broome Community College

11/14/23
Date

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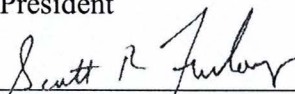Dr. Christine Martey-Ochola
Interim Dean of STEM

10/31/23
Date

_____
Julie Cooley
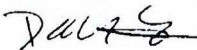Assistant Professor/Chairperson for Computer Science

10/31/2023
Date

**STATE UNIVERSITY OF NEW YORK AT OSWEGO**

_____
Peter O. Nwosu, Ph.D.,
President

10/30/23
Date

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

10/27/2023
Date

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Douglas Lea, Ph.D.,
Professor and Chair, Department of Computer Science

10/23/2023
Date