ARTICULATION AGREEMENT
BETWEEN SOUTHWESTERN OKLAHOMA STATE UNIVERSITY
AND ROSE STATE COLLEGE

Mathematics Associate in Science (AS), Computer Science Emphasis (RSC)
And
Bachelor of Science (BS) in Computer Science, Software Development Option (SWOSU)

OVERVIEW:

This formal program articulation agreement is made and entered into by Southwestern Oklahoma State University, hereinafter referred to as SWOSU, and Rose State College, hereinafter referred to as RSC. By this agreement, SWOSU and RSC express a shared commitment to increasing opportunities for student access to, and success in, higher education. By clarifying transfer policies and procedures, which assure articulation between programs, the institutions seek to assist students in making a seamless transfer from the associate to the baccalaureate degree.

PURPOSE:

This agreement provides students who have earned a Mathematics Associate of Science with a Computer Science emphasis at RSC the opportunity to complete a Bachelor of Science in Computer Science, Software Development option at SWOSU. Any RSC student who has earned a Mathematics Associate of Science, Computer Science emphasis at RSC and adheres to the guidelines within this agreement is guaranteed that SWOSU will accept the A.S. degree as fulfillment of all general education requirements in the Bachelor of Science in Computer Science, Software Development option at SWOSU.

CONDITIONS OF TRANSFER:

Section I: Admissions and Matriculation

RSC students maintaining continuous enrollment under this agreement will be afforded the same treatment and protection as SWOSU students enrolled under the Bachelor of Science in Computer Science, Software Development option.

Criteria for acceptance into SWOSU will be the same for transfer as for native students.

RSC, upon request of students, will provide verification of completed courses to SWOSU through its Office of Admission and Records. The transcript of students transferring from RSC will be evaluated by the Registrar's office at SWOSU.

Transfer students from RSC will have access to financial aid, scholarships, and student services on the same basis as native students.

SWOSU will apply the same academic progress and graduation standards to RSC transfer students as those applicable to native students at SWOSU.

Section II: Transfer of Credit

All courses taken at RSC for the Mathematics Associates in Science Degree with a Computer Science emphasis will be accepted for transfer to SWOSU and applied to the Bachelor of Science in Computer Science, Software Development option degree requirements. Should RSC students have more GE Classes to transfer, those will be considered. However, **RSC students will be required to have completed at least 60 hours at SWOSU with a minimum of 40 hours at the 3000 to 4000 level upon graduation.**

Transfer students from RSC will have junior standing at SWOSU when beginning the BS in Computer Science, Software Development option.

RSC Mathematics Associate in Science, Computer Science Emphasis
Year 1 & 2 (RSC)

Section A: General Education Requirements – 39 Hours Required

English Comp I+	ENGL 1113
English Comp. II+	ENGL 1213
US History to 1877 or	HIST 1043
US History since 1877	HIST 1053
American Federal Government	POLS 1113
General Physics Lab I+	PHY 2401
Physics I for Eng & Sci	PHY 2434
Life Science Elective	3
Humanities	6
*Differential & Integral Calculus I+	MATH 1914
Prerequisite: MATH 1513+ **AND** MATH 1613+ **OR** MATH 1715+	
Intro to Logic & Critical Thinking	PHIL 2113
General Education Electives	6

Section B: Program Requirements – 20 Hours Required

Fundamentals of Programming Logic	CIT 1113
Intro to Java Programming	CIT 1613
Discrete Math	MATH2103
Differential & Integral Calculus II+	MATH2924
Differential & Integral Calculus III+	MATH2934
Intro to Statistics for Engineering & Science+	MATH2083

Section C: Support & Related Requirements – 5 Hours Required

General Physics Lab II+	PHY 2411
Physics II for Eng & Sci+	PHY 2444

+Check course description for prerequisites that must be met.
*Students may meet prerequisite requirements for these courses through high school coursework, entrance exams, or exams, or by completing the prerequisite courses.

SWOSU Bachelor of Science (BS) in Computer Science
Software Development Option (SOFTD)
Years 3 & 4

Section A: Required Courses – 33 Hours Required

Computer Science I	COMSC 1033
Computer Science II	COMSC 1053
Intro to Information Security & Ethics	COMSC 1103
Discrete Structures	COMSC 2043
Operating Systems	COMSC 3053
Data Communications & Networks	COMSC 3153
Mobile Applications	COMSC 4173
Business Intelligence	COMSC 4513
CS/IS Capstone	COMSC 4953
Intro to MIS	ENTRP 3113
Technical Presentations	TECH 3143

Section B: Approved Computer Science Electives – 9 Hours Required

COMSC Electives	9

Section C: Software Development Option (SOFTD) – 21 Hours Required

Data Structures	COMSC 2413
Computer Architecture	COMSC 3013
Software Engineering	COMSC 3133
Hardware/Software	COMSC 3603
Web Development	COMSC 3913
Design & Analysis of Computer Algorithms	COMSC 4133
Business Statistics	ECON 2463

Section C: Approved Computer Science Electives – 9 Hours Required

Programming C# with Unity	COMSC 2463
COMSC 3000/4000 Elective – 6 Hours	

Section D: Free Electives – 9 Hours Required – to total 60 hours at SWOSU
Free Elective – 9 Hours

TERMS OF AGREEMENT:

This agreement is made and entered into immediately and remains in force unless changed in writing by mutual agreement of both parties. The agreement may be amended at any time with the approval of both parties and is subject to regular review to assure currency with the respective degree requirements. Should either party desire to discontinue this agreement, advance notification of two years will be required.

Signatures:

Southwestern Oklahoma State University and Rose State College hereby enter into this program articulation agreement leading from the Associate of Science in Mathematics, Computer Science emphasis to the Bachelor of Computer Science, Software Development Option by affixing of signatures of the chief executive officers of both institutions.

ROSE STATE COLLEGE
Mathematics Associate in Science (AS), Computer Science Emphasis

SOUTHWESTERN OKLAHOMA STATE UNIVERSITY
Bachelor of Science (BS) in Computer Science, Software Development Option

ROSE STATE COLLEGE

Year	FIRST SEMESTER			SECOND SEMESTER		
	Rose State College Class		SWOSU Equivalent	Rose State College Class		SWOSU Equivalent
FIRST	ENGL 1113	English Comp. I	ENGL 1113	ENGL 1213	English Comp. II	ENGL 1213
	MATH 1914	Calculus I	Free Elective (3)	MATH 2924	Calculus II	Quant. Reasoning (3)
	HIST 1483 or HIST 1493	US History to 1877 or US History since 1877	HIST 1043 or HIST 1053	PHYS 2434	Physics I for Eng & Sci	PHY 2145
	PHIL 2113	Intro to Logic & Critical Thinking	Fine Arts (3)	PHYS 2401	General Physics Lab I	--
	CIT 1113	Fund of Prog Logic	*COMSC 1023	CIT 1533	[a] Prin of Cybersecurity	*COMSC 1103
					Humanities	Humanities & Soc. Sci.
	RSC Credit Hours: 17		**Transfer Hours: 17**	**RSC Credit Hours: 18**		**Transfer Hours: 17**

Year	FIRST SEMESTER			SECOND SEMESTER		
	Rose State College Class		SWOSU Equivalent	Rose State College Class		SWOSU Equivalent
SECOND	POLS 1113	Am. Federal Gov.	POLSC 1103	MATH 2083	Intro to Statistics E&S	#ECONO 2463
	MATH 2934	Calculus III	Free Elective (4)	MATH 2103	Discrete Math	*COMSC 2043
	PHYS 2444	Physics II for Eng & Sci	PHY 2155	CIT 2613	[a] Advanced Java Prog.	*COMSC 1053
	PHYS 2411	General Physics Lab II	--		Life Science Elective	Science Course 2 (4)
	CIT 1613	Intro to Java Prog.	COMSC 1033		Humanities	Humanities & Soc. Sci.
	RSC Credit Hours: 15		**Transfer Hours: 15**	**RSC Credit Hours: 15**		**Transfer Hours: 15**

*CS required courses from RSC
[a] Courses in addition to the requirements for the AS degree that count toward the BS degree at SWOSU.

SWOSU
Southwestern Oklahoma State University

Year	FIRST SEMESTER ‡ Fall		Hours	SECOND SEMESTER ‡ Spring		Hours
JUNIOR	COMSC 2413	Data Structures++	3	COMSC 2463	Programming C# with Unity+	3
	COMSC 3153	Data Communications and Networks	3	COMSC 3053	Operating Systems	3
	COMSC 3603	Hardware/Software Concepts++	3	ENTRP 3113	Introduction to MIS	3
	COMSC 3913	Web Development++	3	COMSC 3133	Software Engineering+	3
	TECH 3143	Technical Presentations	3	COMSC 4173	Mobile Applications+	3
	Credit Hours:		15	**Credit Hours:**		15

Year	FIRST SEMESTER ‡ Fall		Hours	SECOND SEMESTER ‡ Spring		Hours
SENIOR	COMSC 3013	Computer Architecture++	3	COMSC 4133	Design & Analysis of Computer Algorithms+	3
	COMSC 4513	Business Intelligence	3	COMSC 4953	CS/IS Capstone+	3
	COMSC	3000/4000 Elective	6	COMSC	3000/4000 Elective	3
		Free Elective	3		Free Electives	6
	Credit Hours:		15	**Credit Hours:**		15

‡ Symbol represents an assumption that the first semester at SWOSU is a fall semester, and the second semester is a spring semester.
+ Courses only offered in Spring Semesters
++ Courses only offered in Fall Semesters

Transfer Agreement

Between

Rose State College

And

Southwestern Oklahoma State University

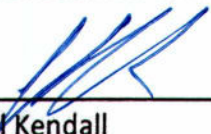Effective Academic Year: 2023-2024

Programs:

- **Mathematics AS, Computer** Science emphasis -to- BS in Computer Science, Software Development option

Dr. Karen Sweeney
Chair
Department of Computer Science

Andrea Xeriland
Mathematics Program Coordinator
Engineering & Science Division

Dr. Trisha Wald
Assoc. Dean
School of Business and Technology

Dr. Ryan Stoddard
Dean
Engineering & Science Division

Dr. Joel Kendall
Provost & Vice President
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Travis Hurst
Vice President
Academic Affairs