

**Pathway for Associate of Arts at Sinclair Community College  
to  
Bachelor of Arts in Computer Science at Miami University**

**Catalog Year: 2023-2024**

**Description**

Miami University and Sinclair Community College are parties to an agreement titled **INSTITUTIONAL ARTICULATION AGREEMENT BETWEEN MIAMI UNIVERSITY AND SINCLAIR COMMUNITY COLLEGE** entered into on January 1, 2024 (the "[Agreement](#)"). This Pathway is entered into pursuant to the terms and conditions of the Agreement and is hereby incorporated into the Agreement by this reference. Except as otherwise set forth, the Agreement is unaffected and shall continue in full force and effect in accordance with its terms.

The Associate of Arts degree at Sinclair Community College partners well with the Bachelor of Arts in Computer Science degree at Miami University.

To graduate with the Bachelor of Arts in Computer Science degree students must first meet all Miami University admission requirements noted on this [website](#). Students must also meet Miami's [general requirements for graduation](#), including: (1) completion of 124 credit hours; (2) completion of a minimum of 30 credit hours at Miami of which the final 12 credit hours must be taken at Miami; and (3) attainment of a minimum of a 2.00 cumulative grade point average at the time of graduation.

The plan of study below illustrates: (1) how a student can complete an Associate of Arts degree at Sinclair Community College and how those courses transfer to Miami University, and (2) what courses the student needs to complete at Miami to earn the Bachelor of Arts in Computer Science degree. Please note the matches in this document indicate specific courses you may be awarded after successfully completing those courses and transferring to Miami University.

Students completing the OT36 through their General Education credits will have completed most requirements for Miami Plan Perspectives Areas and Signature Inquiries. Students entering Miami having completed the OT36 must complete 9 credits of Signature Inquiry, however this may be met by matching equivalent Perspectives courses that have a Signature Inquiry designation. Students will need to complete coursework in Global Citizenship (Intercultural Consciousness or Global Inquiry for 3 credits), Knowledge in Action: Experiential Learning (0 credits), and a Senior Capstone (3 credits).

Courses that do not have a Miami University equivalent will be recorded as "T" courses on the student's Miami University academic record. With the assistance of an academic advisor, students can petition for some "T" courses to count toward Miami University degree requirements.

## Year 1: Sinclair Community College

Sinclair Community College				Transfer Equivalent			
SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS	SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
<b>FALL SEMESTER</b>							
ENG	1101	English Composition I	3	ENG	111	Composition & Rhetoric	
MAT	2270	Calculus I (Any course in catalog elective)	5	MTH	151	Calculus I	
TBD	TBD	OT36 Natural Science 1	4				
CIS	1111	Introduction to Problem Solving & Computer Programming (Any course in catalog elective)	3				
<b>Total Hours:</b>			<b>15</b>				
<b>SPRING SEMESTER</b>							
ENG	1201	English Composition II	3	ENG	112	Composition and Literature	
TBD	TBD	OT36 Natural Science 2	4				
MAT	1450	Statistics (OT36 Mathematics elective)	4	STA	261	Statistics	
TBD	TBD	OT36 Social/Behavioral Science 1	3				
CIS	2212	Java Software Development I (Any course in catalog elective)	3	CSE	174	Fundamentals of Programming & Problem Solving	
<b>Total Hours:</b>			<b>17</b>				

## Year 2: Sinclair Community College

Sinclair Community College				Transfer Equivalent			
SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS	SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
<b>FALL SEMESTER</b>							
COM	2211	Public Speaking	3	STC	135	Principles of Public Speaking	
CIS	2217	Java Software Development II (Any course in catalog elective)	3	CSE	271	Object-Oriented Programming	
TBD	TBD	OT36 Social/Behavioral Science 2	3				
TBD	TBD	OT36 Arts/Humanities 1	3				
TBD	TBD	(Any course in catalog elective)	3				
<b>Total Hours:</b>			<b>15</b>				
<b>SPRING SEMESTER</b>							
CIS	2207	Data Structures & Algorithms (Any course in catalog elective)	3	CSE	274	Data Abstraction & Data Structures	
TBD	TBD	OT36 Social/Behavioral Science 3	3				
TBD	TBD	OT36 Arts/Humanities 2	3				
TBD	TBD	OT36 Arts/Humanities 3	3				
TBD	TBD	Multicultural Elective	3				
<b>Total Hours:</b>			<b>15</b>				

***Sinclair Community College Degree Awarded – 63 credit hours.***

The following is a suggested academic plan for requirements at Miami University; students should meet with advisors to plan courses to meet their needs.

### Year 3: Miami University

SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
<b>FALL SEMESTER</b>			
MTH	231 or 331	Elements of Discrete Mathematics or Proof: Introduction to Higher Mathematics	3
CEC	111	Imagination, Ingenuity and Impact I	2
CYB	134	Introduction to Cybersecurity	3
CSE	201	Introduction to Software Engineering	3
TBD	TBD	Approved Global/Intercultural Course	3
TBD	TBD	Course for selected minor	3
<b>Total Hours:</b>			<b>17</b>
<b>SPRING SEMESTER</b>			
CEC	112	Imagination, Ingenuity and Impact II	2
CSE	278	Systems I: Introduction to Systems Programming	3
CSE	374	Algorithms I	3
TBD	TBD	CSE Elective	3
TBD	TBD	CSE Elective	3
TBD	TBD	Course for selected minor	3
<b>Total Hours:</b>			<b>17</b>

### Year 4: Miami University

SUBJECT CODE	COURSE NUMBER	COURSE TITLE	CREDIT HOURS
<b>FALL SEMESTER</b>			
CSE	448	Senior Design Project I	2
CSE	381	Systems2: OS, Concurrency, Virtualization, and Security	3
CSE	383	Web Application Programming	3
TBD	TBD	CSE Elective	3
TBD	TBD	Course for selected minor	3
TBD	TBD	Course for selected minor	3
<b>Total Hours:</b>			<b>17</b>
<b>SPRING SEMESTER</b>			
CSE	449	Senior Design Project II	2
CSE	465	Comparative Programming Languages	3
TBD	TBD	CSE Elective	3
TBD	TBD	Course for selected minor	3
TBD	TBD	Course for selected minor	3
<b>Total Hours:</b>			<b>14</b>

**Miami University Degree Awarded – 124 credit hours minimum**