

**ACADEMIC PROGRAM ARTICULATION AGREEMENT BETWEEN  
ANNE ARUNDEL COMMUNITY COLLEGE  
AND  
FROSTBURG STATE UNIVERSITY REGARDING TRANSFER FROM ASSOCIATE  
OF SCIENCE IN COMPUTER SCIENCE TRANSFER TO BACHELOR OF SCIENCE  
IN COMPUTER SCIENCE**

This Academic Program Articulation Agreement (“Agreement”) is entered into as of the date last signed below by and between Anne Arundel Community College (the “Sending Institution”) and Frostburg State University (the “Receiving Institution”) (collectively, the “Institutions”) to facilitate the transfer of academic credits from the Sending Institution’s Associate of Science in Computer Science Transfer, HEGIS 498001 and CIP 110101, to the Receiving Institution’s Bachelor of Science in Computer Science, HEGIS code 070100 and CIP code 110701 (“the Program(s”).

**A. Qualifying Students**

This Agreement pertains to the transfer of “Qualifying Students”, *i.e.*, those students who:

1. Have successfully completed the program at the Sending Institution;
2. Are enrolled in the Sending Institution, in good standing; and
3. Are accepted for admission to the Receiving Institution.

**B. Responsibilities of the Institutions**

The Institutions agree to implement the transfer of Qualifying Students in accordance with applicable law and the following requirements and protocols:

1. A Qualifying Student may transfer from the Sending Institution into the Receiving Institution for the completion of the Program.
2. Students may transfer up to 70 credit hours. Only courses in which the student earns a grade of C or better will count toward satisfaction of major requirements. Courses that the Receiving Institution will accept credits towards completion of the Program include:

Sending Institution Course			Receiving Institution Comparable Course			
Course Number	Course Name	Credits	Course Number	Course Name	Credits	Applied to*
BIO 101	Fundamentals of Biology	4	BIOL 149	General Biology I	4	Major and GEP Group C
BIO 103	General Botany	4	BIOL 161	General Botany	4	Major Science Elective
BIO 105	General Zoology	4	BIOL 160	General Zoology	4	Major Science Elective
CHE 111	General Chemistry I	4	CHEM 201	General Chemistry I	4	Major and GEP Group C
CHE 112	General Chemistry II	4	CHEM 202	General Chemistry II	4	Major Science Elective
COM 111	Fundamental Oral Communication	3	CMST 102	Introduction to Human Communication	3	Major and GEP Group F
CTP 115	Introductory Object-Oriented Program Analysis and Design	4	COSC 101	The Discipline of Computer Science	3	Major and Tech Fluency requirement
CTP 150	Computer Science I	4	COSC 240	Computer Science I	4	Major
CTP 194	Ethics and the Information Age	3	COSC 305	Computer Ethics	3	Major Elective and GEP Group B
CTP 250	Computer Science II	4	COSC 241	Computer Science II	4	Major
ENG 101	Academic Writing and Research I	3	ENGL 101	First-Year Composition	3	GEP Core
ENG 102	Academic Writing and Research II	3	ENGL 195	Lower Level Elective	3	GEP Group F
GEO 101	Physical Geography	4	GEOG 103	Physical Geography	4	Major and GEP Group C
MAT 191	Calculus and Analytic Geometry I	4	MATH 236	Calculus I	4	Major and GEP Core

MAT 192	Calculus and Analytic Geometry II	4	MATH 237	Calculus II	4	Major
MAT 202	Linear Algebra	4	MATH 350	Linear Algebra I	3	Major Math Elective
MAT 250	Introduction to Discrete Structures	3	MATH 200	An Introduction to Discrete Mathematics	3	General elective
PHY 211	General Physics I	4	PHYS 261	Principles of Physics I	4	Major and GEP Group C
PHY 212	General Physics II	4	PHYS 262	Principles of Physics II	4	Major Science Elective

\* Indicates if course is applied to General Education, Program/Major requirements, or General Elective at Frostburg.

- Only courses in which a student earns a C or better will count toward satisfaction of major requirements.
- The Receiving Institution shall designate, and shall provide to the Sending Institution, the contact information for a staff person at the Receiving Institution who is responsible for the oversight of the transfer of Qualifying Students. The Sending Institution shall designate, and shall provide to the Receiving Institution, the contact information for a staff person at the Sending Institution who is responsible for the oversight of the transfer of Qualifying Students.

	Sending Institution	Receiving Institution
Name of staff person responsible for oversight	Marcus Wright	Natalie Wagoner
Title of staff person	Director of Transfer, Articulation, and Career Alignment	Director of Admissions
Email address	<a href="mailto:mwright22@aacc.edu">mwright22@aacc.edu</a>	<a href="mailto:nmwagoner@frostburg.edu">nmwagoner@frostburg.edu</a>
Telephone Number	410-777-2777	301-687-4406

Should the staff person or position change, the Institution will promptly provide new contact information to the other Institution and inform the Maryland Higher Education Commission of the change.

Additional contact information:

	Sending Institution	Receiving Institution

Name of person	Krysten Hall	Michael Flinn
Title of person	Associate Professor, Computer Science	Professor and Chair, Computer Science and Information Technologies
Email address	kbhall@aacc.edu	<a href="mailto:mflinn@frostburg.edu">mflinn@frostburg.edu</a>
Telephone Number	410-777-2761	301-687-4835

5. If the Qualifying Student is using federal Title 38 VA Education Benefits (GI Bill® Education Benefits), the Institutions shall adhere to all applicable U.S. Department of Veterans Affairs' regulations, including the regulations governing the awarding prior credit, as regulated under Title 38, Code of Federal Regulations, Sections 21.4253(d)(3) and 21.4254(c)(4).
6. Each Institution shall adhere to all applicable transfer requirements set forth in the Annotated Code of Maryland and the Code of Maryland Regulations.
7. Each Institution shall advise students regarding transfer opportunities under this Agreement, and shall advise students of financial aid opportunities and implications associated with the transfer.
8. Should either Institution make changes to program requirements, the Institution will inform the other Institution immediately. If updates to this Agreement are necessary, the Institutions will amend this Agreement and forward the amended Agreement to the Maryland Higher Education Commission.
9. Qualifying Students who have completed an Associate Degree at the Sending Institution are guaranteed admission to the Receiving Institution.

### **C. Term and Termination**

1. This Agreement shall be effective on the date that last signed by the appropriate and authorized representatives of each Institution ("Effective Date") and shall remain in effect for one (1) year.
2. This Agreement shall automatically renew for one (1) year terms, unless terminated as set forth below.
3. Either Institution may, at its sole discretion, terminate this Agreement upon delivering sixty (60) days' written notice to the other Institution and the Maryland Higher Education Commission.
4. In the event of termination by either Institution, transfer credits accepted by the Receiving Institution prior to the termination date for Qualifying Students will not be impacted and

Qualifying Students currently enrolled in the Program at the time of termination shall be permitted to complete the Program as described herein.

5. Both Institutions agree to meet once every year to review the terms of this Agreement.

#### **D. Amendment**

1. This Agreement constitutes the entire understanding and agreement of the Institutions with respect to their rights and obligations in carrying out the terms of the Agreement, and supersedes any prior or contemporaneous agreements or understandings.
2. This Agreement may be modified only by written amendment executed by both Institutions.

#### **E. Governing Law**

This Agreement shall be governed by, and construed in accordance with, the laws of the State of Maryland.

#### **F. Counterparts**

This Agreement may be executed in counterparts, each of which shall be deemed to be an original, but all of which, taken together, shall constitute one and the same agreement. This Agreement may be executed electronically. This Agreement may be electronically or digitally signed or scanned, and any electronic or digital signatures appearing on this Agreement are the same as handwritten signatures for the purposes of validity, enforceability, and admissibility, upon exchange of signature pages.

#### **G. Notice of Agreement**

1. The Institutions agree to provide a copy of this Agreement, with any amendments, to the Maryland Higher Education Commission.
2. The Institutions agree to provide copies of this Agreement to all relevant individuals and departments of the Institutions, including but not limited to students, academic department chairs participating in the transfer, offices of the president, registrar's offices, and financial aid offices.

#### **H. No Third-Party Beneficiaries**

There are no third-party beneficiaries to this Agreement.

#### **I. Representations and Warranties of the Parties**

Both Institutions represent and warrant that the following shall be true and correct as of the Effective Date of this Agreement, and shall continue to be true and correct during the term of this Agreement:

1. The Institutions are and shall remain in compliance with all applicable federal, state, and local statutes, laws, ordinances, and regulations relating to this Agreement, as amended from time to time.
2. Each Institution has taken all action necessary for the approval and execution of this Agreement.

IN WITNESS WHEREOF, the Institutions have caused this Agreement to be executed by their duly authorized representatives.

**Anne Arundel Community College**

**Frostburg State University**

By: \_\_\_\_\_  
Tanya Millner, Ed.D.  
Provost/Vice President for Learning

By: \_\_\_\_\_  
Ronald Nowaczyk, Ph.D.  
President

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

\_\_\_\_\_  
Lance Bowen, Ph.D.  
Dean of Science, Technology and  
Education

\_\_\_\_\_  
Michael Mathias, Ph.D.  
Interim Provost for Academic Affairs

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

\_\_\_\_\_  
Kim Hixson, Ph.D.  
Dean of Liberal Arts and Sciences

\_\_\_\_\_  
Date

# TRANSFER GUIDE

A.S. in Computer Science Transfer

| B.S. in Computer Science

This transfer guide is intended for students pursuing an Associate of Science in Computer Science - Computer Science Transfer at Anne Arundel Community College who are interested in pursuing a Bachelor of Science in Computer Science at Frostburg State University. This transfer guide demonstrates how a student can meet both requirements for the associate degree and prepare for a seamless transfer to Frostburg State University.

## SAVINGS:

Students can save up to **\$10,388.00** by completing their associate degree at Anne Arundel Community College and then finishing up at Frostburg State University (based on 2021-22 undergraduate tuition and fees).

## FROSTBURG NOTES:

Frostburg State University accepts up to 70 credits from Anne Arundel Community College.

Notice of Nondiscrimination: AACC is an equal opportunity, affirmative action, Title IX, ADA Title 504 compliant institution. Call Disability Support Services, 410-777-2306 or Maryland Relay 711. 72 hours in advance to request most accommodations. Requests for sign language interpreters, alternative format books or assistive technology require 30 days' notice. For information on AACC's compliance and complaints concerning sexual assault, sexual misconduct, discrimination or harassment, contact the federal compliance officer and Title IX coordinator at 410-777-1239, complianceofficer@aaccc.edu or Maryland Relay 711.

YEAR 1 - ANNE ARUNDEL COMMUNITY COLLEGE					
FALL	Frostburg Equivalent	CREDITS	SPRING	Frostburg Equivalent	CREDITS
MAT 191*	MATH 236	4	MAT 192*	MATH 237	4
ENG 101* or ENG 101A*	ENGL 101	3	ENG 102	ENGL 195	3
Gen Ed. Arts & Humanities	Humanities/Fine Arts	3	Gen Ed. Biological & Physical Sciences***	Natural Science	4
Gen Ed. Social & Behavioral Sciences	Social Sciences	3	CTP 150*	COSC 240	4
CTP 115*	COSC 101**	4			
<b>TOTAL CREDITS</b>		17	<b>TOTAL CREDITS</b>		15
YEAR 2 - ANNE ARUNDEL COMMUNITY COLLEGE					
FALL	Frostburg Equivalent	CREDITS	SPRING	Frostburg Equivalent	CREDITS
CTP 250*	COSC 241	4	MAT 250*	COSC 102/MATH 200	3
MAT 202*	MATH 350	4	Wellness Requirement	FSU Colloquia	3
Gen Ed. Arts & Humanities (CTP 194)	Humanities (COSC 305)	3	Gen Ed. Social & Behavioral Sciences	Social Sciences	3
Gen Ed. Biological & Physical Sciences***	Natural Science	4	Elective (BIO 103, BIO 105, CHE 112 or PHY 212)*	Natural Science	4
<b>TOTAL CREDITS</b>		15	<b>TOTAL CREDITS</b>		13
YEAR 3 - FROSTBURG STATE UNIVERSITY					
FALL		CREDITS	SPRING		CREDITS
General elective		3	ENGL 338 Technical Writing		3
COSC 310 Data Structures and Algorithm Analysis		3	COSC 325 Software Engineering		3
COSC 350 Low-Level Programming Concepts		3	GEP Identity and Difference		3
COSC 331 Fundamentals of Computer Networks		3	COSC 365 Digital Logic		4
GEP (Fine and Performing Arts OR Humanities)		3	MATH 380 Introduction to Probability and Statistics		3
<b>TOTAL CREDITS</b>		15	<b>TOTAL CREDITS</b>		16
YEAR 4 - FROSTBURG STATE UNIVERSITY					
FALL		CREDITS	SPRING		CREDITS
COSC 450 Programming Language Principles		3	COSC 444 Introduction to Parallel Computing		3
COSC 460 Operating Systems		3	COSC 485 Introduction to the Theory of Computing		3
Computer Science Elective (1 of 2)		3	COSC 489 Capstone		1
CMST 102 Introduction to Human Communication		3	Computer Science Elective (2 of 2)		3
General elective		3	General electives		4
<b>TOTAL CREDITS</b>		15	<b>TOTAL CREDITS</b>		14

\* = Course must be completed with a grade of C or better  
 \*\* = Accepted as equivalent as part of this agreement only  
 \*\*\* = Choose from CHE 111, PHY 211, or BIO 101