

# ARTICULATION AGREEMENT

**Allegany College of Maryland**  
**Associate of Science – Computer Science- Computer Science (Area of Concentration)**

**Frostburg State University**  
**Bachelor of Science in Computer Science**

Entered into this \_\_\_\_\_ day of \_\_\_\_\_, 2018.

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President  
Frostburg State University

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This agreement will be reviewed annually.

## ARTICULATION AGREEMENT

Allegany College of Maryland, Associate of Science– Computer Science and  
Frostburg State University, Bachelor of Science in Computer Science.

### RECITALS

Allegany College of Maryland (hereafter referred to as “ACM”), a community college in Allegany County, Maryland, and Frostburg State University (“FSU”), a comprehensive regional institution in Western Maryland and a constituent institution of the University System of Maryland, agree to offer an articulated program leading to the award of an Associate of Science (A.S.) Degree in Computer Science- Computer Science (Area of Concentration) and a Bachelor of Science (B.S.) in Computer Science. The parties further agree that students from ACM, through this articulation agreement, will be permitted to transfer credits earned for the A.S. at Allegany College of Maryland to FSU, leading to the award of the B.S. degree in Computer Science at FSU.

#### **I. Purpose**

- a. It is the intent is that this articulation agreement will facilitate a smooth transition from completion of Allegany College of Maryland’s Associate of Science to the B.S. in Computer Science program at FSU. As a result of this articulation agreement, ACM graduates will understand how FSU transfers the credits earned at ACM. This agreement provides a systematic plan for students to receive both the A.S. degree from ACM and the B.S. degree in Computer Science from FSU.
- b. This agreement sets forth a clear set of responsibilities and expectations for both institutions. The parties agree to work collaboratively to meet the needs of ACM graduates in facilitating transfer to FSU.
- c. ACM encourages graduates to continue their educational pathway in Computer Science for both personal and professional development, as well as career advancement in the Computer Science profession. This articulation agreement for completion of the B.S. in Computer Science facilitates students’ successful achievement of credentials in the field.

#### **II. Requirements of the Program**

- a. The program is designed for graduates of the A.S. in Computer Science- at Allegany College of Maryland. Students must complete the A.S. degree at ACM in order to participate in the transfer program. A maximum of seventy (70) credit hours from ACM will be allowed toward fulfillment of the one hundred twenty (120) credit hours required for completion of the B.S. degree. Students are limited to a maximum of ninety (90) credits when transferring courses from other four-year colleges and universities.
- b. Computer Science students from ACM will have their coursework evaluated by FSU to determine which FSU general education requirements and discipline requirements have been met. ACM courses shall be evaluated by FSU for transferability, and FSU shall accept courses for transfer at its sole discretion. By taking full advantage of the ACM-FSU course agreements described below, the transfer student will matriculate at FSU with junior standing.

- c. In accordance with Code of Maryland Regulations (COMAR), all courses meeting general education requirements at ACM will transfer to FSU as general education courses (up to a maximum of 36 credits).
- d. Students must maintain a minimum of a 2.0 cumulative grade point average in order to transfer to the FSU Computer Science Program.
- e. The maximum number of credits that will be accepted by FSU toward degree requirements from non-direct classroom instruction (including CLEP, AP, IB and FSU Special Departmental examination scores) is thirty (30) credits. Tech Prep credits will transfer where appropriate, as will credit awarded for experiential learning (“life experience”) if recorded on ACM’s transcript.
- f. While ACM and FSU do not presently have a dual admission program, if the parties later enter into such a program, this agreement will not preclude students from participation and students may apply for and receive the benefits of dual admission. Those students shall then be subject to the policies of said program should they apply.
- g. ACM students who have completed the A.S. in Computer Science degree will be given every consideration for financial assistance and will be eligible to compete for academic scholarships at FSU.
- h. This agreement becomes effective on the date set forth on the first page of this document. ACM and FSU agree to publicize this program. The parties further agree to monitor the performance of the program and to make revisions as may be mutually agreed upon as necessary. Curricula for Computer Science programs undergo frequent change and this agreement will be amended to reflect such changes as they occur. Amendments will be made in writing and appended to this agreement. Amendments need only be approved by the deans and chairs from both institutions.
- i. This agreement may be terminated by either party with ninety (90) days written notice to the other. The parties agree that termination shall include an agreement that students currently enrolled in the program at the time of termination shall be permitted to complete the program as described herein.



### III. A.S. in Computer Science -B.S. in Computer Science Transfer Courses

The following indicates the transfer of course agreement between Allegany College of Maryland and FSU:

a. General Education Requirements to be Completed at Allegany College of Maryland (32 credits)

	<b>Allegany College of Maryland Equivalent</b>	<b>Explanation/Notes</b>
ENGLISH COMPOSITION (3 credits)	ENGL 101	
FINE AND PERFORMING ARTS (3 credits)	Art or Music elective	
HUMANITIES (6 credits)	Two Humanities electives	
SOCIAL SCIENCE (6 credits)	PSYC 101 <u>and</u> one Social and Behavioral Science elective	
MATHEMATICS (3 credits)	MATH 109	
NATURAL SCIENCE (8 cr; one course must have a lab component)	Laboratory Science electives	
MODES OF INQUIRY ELECTIVE (3 cr)	SPCH 101	
<b>TOTAL General Education Credits=32</b>		

b. Degree Program Requirements to be Completed at Allegany College of Maryland (19 credits)

The B.S. degree with a major in Computer Science at FSU requires students to successfully complete the following course work. Some of these courses also may meet general education requirements, as indicated above.

Frostburg State University			ACM Program Equivalent
Course Number	Course Title	Credit Hours	
COSC 101	The Discipline of Computer Science	3.0*	COMP 103
COSC 240	Computer Science I	4.0	COMP 234
COSC 241	Computer Science II	4.0	COMP 238
CMST 102	Intro. to Human Communication		SPCH 101 (credits counted in GEP above)

MATH 236	Calculus I	4.0	MATH 201
MATH 237	Calculus II	4.0	MATH 202
TOTAL Program Credits=19			

\*4 credits at ACM, transfers to FSU as 3 credits.

c. Additional A.S. Degree Requirements to be Completed at ACM (9 credits)

Frostburg State University			ACM Program Equivalent
Course Number	Course Title	Credit Hours	
COSC 100	Intro. to Computer Science	3.0	COMP 101
COSC 130	Intro. to Programming	3.0	COMP 233
MGMT 195	Elective	3.0	BUAD 110
TOTAL Program Credits=9			

**TOTAL ACM CREDITS TRANSFERRING TO FROSTBURG: 60 CREDITS**

d. Degree Program Requirements to be Completed at FSU (60 credits)

All FSU bachelor's degree candidates must complete a minimum of 39 upper-division (300-400) credit hours.

Frostburg State University			Notes
Course Number	Course Title	Credit Hours	
COSC 102	Foundations of Computer Science	4.0	
COSC 325	Software Engineering	3.0	
COSC 460	Operating Systems Concepts	3.0	
COSC 489	Computer Science Capstone	1.0	
COSC 310	Data Structures and Algorithm Analysis	3.0	
COSC 331	Fundamentals of Computer Networks	3.0	
COSC 350	Low-Level Programming Concepts	3.0	
COSC 365	Digital Logic	4.0	
COSC 305	Computer Ethics	3.0	
COSC 440	Database Management Systems	3.0	

COSC 450	Programming Language Principles and Paradigms	3.0	
COSC 485	Introduction to Theory of Computation	3.0	
MATH 380	Intro. to Probability and Statistics	3.0	
Additional Math course	MATH 350, MATH 432, MATH 435, MATH 437, or MATH 470	3.0	
ENGL 338	Technical Writing	3.0	
Additional Science course	BIOL 160 General Zoology, BIOL 161 General Botany, CHEM 202 General Chemistry II, or PHYS 262 Principles of Physics II	4.0	
	FSU Colloquia	3.0	GEP requirement
	Identity and Difference course	3.0	Select from approved list to satisfy GEP requirement
	Electives (any)	5.0	Required to reach 120 for graduation
Total = 60			

e. Course Sequencing

Computer Science students transferring to the B.S. in Computer Science Program at FSU shall be notified by ACM and FSU that the Computer Science curriculum is built upon a series of established course sequences. For students to progress through the program, they must have the appropriate pre-requisites, co-requisites, and must maintain a minimum 2.0 GPA.

Students wishing to participate in the program should develop an education plan at ACM by contacting:

James House  
Chair, Computer Technology  
Allegany College of Maryland  
301-784-5308  
[jhouse@allegany.edu](mailto:jhouse@allegany.edu)

ACM will direct students interested in participating in the B.S. in Computer Science program to apply for admission to FSU, indicating Computer Science as the intended major. Applications can be submitted online at: [www.frostburg.edu](http://www.frostburg.edu).

Contact person at FSU for the program is:

Dr. Michael B. Flinn  
Associate Professor, Department of Computer Science and Information Technologies  
Frostburg State University  
301-687-4835  
[mflinn@frostburg.edu](mailto:mflinn@frostburg.edu)