

**ACADEMIC PROGRAM ARTICULATION AGREEMENT BETWEEN  
CARROLL COMMUNITY COLLEGE  
AND  
STEVENSON UNIVERSITY REGARDING TRANSFER FROM A.S. IN  
PHYSICAL SCIENCES, PHYSICS CONCENTRATION TO B.S. IN  
APPLIED MATHEMATICS**

This Academic Program Articulation Agreement (“Agreement”) is entered into by and between **Carroll Community College** (the “Sending Institution”) and **Stevenson University** (the “Receiving Institution”) (collectively, the “Institutions”) to facilitate the transfer of academic credits from **A.S. in Physical Sciences, Physics Concentration** for the completion of the **B.S. in Applied Mathematics** (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 into from the Transferring Institution into the Receiving Institution for the completion of the Program.
2. Courses that the Receiving School will accept credits for towards completion of the Program include:

Community College Degree Requirements	Stevenson Equivalency	Category	Credits Transferred
MATH 136 Calculus of a Single Variable 2	MATH 221 Calculus II	Program Requirements	4
MATH 205 Multivariable Calculus	MATH 222 Calculus III	Program Requirements	4
MATH 215 Differential Equations	MATH 321 Differential Equations	Program Requirements	4
PHYS 111 Physics 1 for Sci and Eng	PHYS 215 General Physics I with Calculus	Program Requirements	4
PHYS 212 Physics 2 for Sci and Eng	PHYS 216 General Physics II with Calculus	Program Requirements	4
PHYS 213 Physics 3 for Sci and Eng	MATH 299	Math Elective	4

Community College Degree Requirements		Stevenson Equivalency	Category	Credits Transferred
ENGL 101 College Writing		ENG 151 College Writing I	General Education	3
ENGL 102 Writing About Literature		ENG 151 College Writing II	General Education	3
Arts & Humanities: General Education Fine and Performing Arts or Humanities Course  SU Recommends COMM 105		Humanities or Fine Arts requirement  CM 101 Public Speaking	General Education  SEE Communication Intensive Requirement	6
Biological and Physical Sciences: CHEM 105 Principles Of General Chemistry 1 CEHM 106 Principles of General Chemistry 2		CHEM 115/L General Chemistry I/Lab CHEM 116/Lab	General Education – Scientific Reasoning Lab	8
Mathematics: MATH 135 Calculus of a Single Variable 1		MATH 220 Calculus I	General Education (SEE Quantitative Literacy Requirement)	4
Social and Behavioral Sciences: SU Recommends 6 credits from two different disciplines		Social Sciences	General Education SEE Social Sciences Requirement	6
Electives			General Elective	6
Total	<b>60 Credits</b> Please note: A minimum of 60 credits are needed for the associate degree			

### Remaining Courses to be taken at Stevenson

Students who complete the plan above including all recommended courses and earn the A.S. in Physical Sciences, Physics Concentration will take the following courses at Stevenson to meet the B.S. in Applied Mathematics requirements. Students who transfer before completing the associate degree may have more general education and program requirements to take and fewer free electives.

General Education Requirements (0 credits)

Major Requirements (42-54 credits)

MATH 312	Mathematical Statistics I	3 credits
MATH 313	Mathematical Statistics II	3 credits
MATH 326	Linear Algebra	3 credits
MATH 418	Mathematical Modeling	3 credits
MATH 425	Scientific Computer Programming	3 credits
MATH 470	Capstone Internship	3 credits
	Or	
MATH 471	Capstone Internship	6 credits
MATH 475	Capstone Seminar	3 credits
MATH Electives		6-9 credits
200 Level Writing Intensive		3 credits

Students choosing the 6-credit Capstone Internship (MATH 471) can take one less MATH elective course. Students will complete 9-21 credits of MATH track electives.

Additional Credits Needed: 6-18 credits of general electives

Total credits to be taken at SU 60

Suggested Course Sequence

YEAR 3				
SEMESTER	FALL		SPRING	
RECOMMENDED COURSES	200 Level Writing Intensive Course (WI)	3	MATH 313 Mathematical Statistics II	3
	MATH 312 Mathematical Statistics	3	MATH 418 Mathematical Modeling	3
	MATH 326 Linear Algebra	3	MATH 425 Scientific Computer Programming	3
	MATH Elective	3	MATH Track Elective	3
	MATH Track Elective	3	MATH Track Elective	3
<b>CREDITS</b>	<b>15 CREDITS</b>		<b>15 CREDITS</b>	
YEAR 4				
SEMESTER	FALL		SPRING	
RECOMMENDED COURSES	MATH 470 or 471 Capstone Internship 300/400 Level Writing Intensive (WI)	3-6	MATH 442 Numerical Analysis	3
	MATH 475 Capstone Seminar	3	MATH Track Elective or General Elective	3
	MATH Elective, if needed	3	MATH Track Elective or General Elective	3
	MATH Track Elective or General Elective	3	General Elective	3
	General Elective	3	General Elective	3
<b>CREDITS</b>	<b>15-18 CREDITS</b>		<b>15 CREDITS</b>	

### 3. Additional Provisions

- Courses that fulfill program requirements are only eligible for transfer if students have earned a grade of “C” or better. Courses used to fulfill only general education requirements are eligible for transfer if students have earned a grade of “D” or better, with the exception of college composition, which must be passed with a “C-” — 70 or higher.
  - Students must have a 2.5 cumulative grade point average at time of application.
  - Stevenson participates in general education block transfer. Students entering Stevenson with an A.A., A.S., or A.A.T. degree from a Maryland community college will have met all of Stevenson’s general education requirements, with the exception of a second composition course if not already taken. The equivalencies above detail the coursework students would take under the block transfer program. Not all programs are eligible for block transfer.
  - Stevenson University will accept up to 70 credits from 2-year institutions. Up to 90 credits can be applied to degree requirements from a combination of 2-year institutions, 4-year institutions, and non-direct classroom instruction (including CLEP, AP, and other nationally recognized standardized examination scores). For additional information about credit transfer, please see:  
<http://www.stevenson.edu/admissions-aid/getting-started/transfer-students/transfer-credit-evaluation/>
  - For non-direct classroom instruction, an appropriate score is determined by Stevenson University, and student must submit original test scores/results to Stevenson University. Tech Prep credits will not transfer. Credit awarded for prior learning (“life experience”) is not recognized by, and is not transferable to, Stevenson University.
  - Students intending to transfer should complete the admission application for Stevenson University once they complete 45 credits of the Associate Degree program. Students should contact the Financial Aid Office at Stevenson University as soon as possible in regard to college deadlines for financial aid. Students who have completed an associate degree at a Maryland community college are guaranteed admissions to Stevenson.
4. 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	April Herring	Dave Copenhaver
Title of staff person	Senior Director of Advising and Retention	Assistant Director of Transfer Admissions
Email address	aherring@carrollcc.edu	wcopenhaver@stevenson.edu
Telephone Number	(410) 386-8444	(443) 352-4409

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

Additional contact information:

[Role & Responsibilities of persons listed here]	Sending Institution	Receiving Institution
Name of person	Raza Khan	Amanda Hostalka
Title of person	Chair, Science	Vice Provost, Outreach
Email address	rkhan@carrollcc.edu	ahostalka@stevenson.edu
Telephone Number	(410) 386-8222	(443) 394-9549

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).
  - For scholarship information please see the "Paying for College" page on: <http://www.stevenson.edu/transfer>
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 partner institution immediately. The articulation agreement should be updated to reflect the changes and forwarded to the Maryland Higher Education Commission.

### C. Term and Termination

1. This agreement shall be effective on the date that it is signed by the appropriate and authorized representatives of each Institution.
2. Either Institution may, at its sole discretion, terminate this Agreement upon delivering 60 days written notice to the other Institution and the Maryland Higher Education Commission.
3. Both Institutions agree to meet once every 3 year(s) 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.

#### **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 parties hereto have caused this Agreement to be executed by their duly authorized representatives.

<p>Carroll Community College</p> <p><u>Rosalie Mince</u> By: <small>Rosalie Mince (Jul 7, 2022 15:25 EDT)</small></p> <hr/> <p>Rosalie Mince, PhD Provost</p> <p><u>07/07/2022</u> Date</p>	<p>Stevenson University</p> <p><u>Susan T. Gorman</u> By: <small>Susan T. Gorman (Jul 13, 2022 21:26 EDT)</small></p> <hr/> <p>Susan Thompson Gorman, PhD EVP Academic Affairs and Provost</p> <p><u>07/13/2022</u> Date</p>
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**Date of next review** (3 years from date of last signature).