STEVENSON UNIVERSITY

Carroll Community College

A.S. Transfer Plan Applied Mathematics

A.S. in Physical Sciences, Physics Concentration to B.S. in Applied Mathematics

This transfer plan is intended for students pursuing an **A.S in Physical Sciences, Physics Concentration** at **Carroll Community College** who are interested in pursuing a **B.S. in Applied Mathematics** at Stevenson University. The equivalencies below demonstrate how a student can meet both the requirements of the associate degree and prepare for a seamless transfer to Stevenson. Any student who enters Stevenson with an A.A. or A.S. degree will have completed all general education requirements with the exception of composition II if not taken at the community college. Please note:

- Only courses that have course equivalencies are displayed. This guide does not show all transferable courses from this college. It also does not display all Stevenson University courses that will fulfill a specific requirement.
- Program requirements must be completed with a grade of "C" or better, and general education courses must be passed with a grade of "D" or better, with the exception of college composition, which must be passed with a "C-" — 70 or higher.
- 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 scholarship information please see the "Paying for College" page on: http://www.stevenson.edu/transfer
- Transfer plans are intended to be used as planning tools. If you need additional assistance in selecting courses to take prior to transferring to Stevenson University, contact Stevenson Admissions at 443-352-4450.

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
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

Community College Degree Requirements	Stevenson Equivalency	Category	Credits Transferred
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	60 Credits 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
CREDITS	**15** CREDITS		**15** CREDITS	
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
CREDITS	**15-18** CREDITS		**15** CREDITS	

Signed 7/13/2022