

STEVENSON

U N I V E R S I T Y

Community College of Baltimore County
A.S. in Science, Mathematics Concentration, to B.S. in Applied Mathematics

This transfer plan is intended for students pursuing an A.S. in Science, Mathematics Concentration at Community College of Baltimore County 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.
- 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.

CCBC Requirements	Stevenson Equivalency	Category	Credits Transferred
ENGL 101 English Composition	ENG 151	General Education	3
CSIT 111 Logic and OO Design	Humanities General Education requirement		3
CMNS 101 Fund. of Communication	Communications Elective		3
PHYS 151 General Physics I	PHYS 215- Science Reasoning General Education		4
PHYS 251 General Physics II	PHYS 216- Science Reasoning General Education		4
Arts and Humanities Gen Ed	Art or Humanities General Education Requirement		3
Social & Behavioral Sciences Gen Ed	Social Science General Education Requirement		3
Social & Behavioral Sciences Gen Ed	Social Science General Education Requirement		3
Communications Gen Ed	Communication General Education Requirement		3
CSIT 210 Introduction to Programming	General Elective		4
MATH 243 Discrete Mathematics	MATH 230	Program Elective	4
MATH 251 Calculus I	Math 220	Program Requirement	4
MATH 252 Calculus II	MATH 221	Program Requirement	4

CCBC Requirements	Stevenson Equivalency	Category	Credits Transferred
MATH 253 Calculus III	MATH 222	Program Requirement	4
MATH 257 Linear Algebra	MATH elective	Program Requirement	4
MATH 259 Elementary Differential Equations	MATH elective, Fulfills MATH 321	Program Requirement	3
Elective: ENGL 102	ENG 152	General Education	3
Elective: <u>For Actuarial and Business Track</u> , choose ECON 201. <u>For Interdisciplinary Track</u> , choose any course. <u>For Science Track</u> , choose one science course: BIOL 110 or CHEM 131	EC 201	Track requirement for Actuarial and Business Track	3
	Science Requirement	Track Requirement for Scientific Track	4
Total	60 Credits (Generally this should add up to 60 credits) Please note: A minimum of 60 credits are needed for the associate's degree		

Remaining Courses to be taken at Stevenson

Students who complete the plan above including all recommended courses and earn the [A.S. in Mathematics Science Concentration](#) will take the following courses at Stevenson to meet the B.S. 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 for All Tracks (24 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
Senior Capstone 9 credits

Track Requirements:

Actuarial Track Requirements (18 credits)

ACC 140 Financial Accounting 3 credits
ACC 141 Managerial Accounting 3 credits
EC 202 Principles of Microeconomics 3 credits
FIN 300 Principles of Finance 3 credits
MATH 342 Time Series Analysis 3 credits
MATH 420 Actuarial Mathematics 3 credits

Additional Credits Needed: 18 credits of general electives if needed to reach 120

Business Track Requirements (15 credits)

MGT 204 or MKT 206 or ACC 140 3 credits
2 Business Electives 6 credits

Math 442 Numerical Analysis 3 credits

One MATH Elective 3 credits

Additional Credits Needed: 21 credits of general electives if needed to reach 120

Interdisciplinary Track Requirements (9 credits)

MATH 301 Mathematical Structures 3 credits

MATH 442 Numerical Analysis 3 credits

One MATH Elective 3 credits

Additional Credits Needed: 27 credits of general electives if needed to reach 120

Scientific Track Requirements (7 credits)

CHEM 115 with lab or BIO 114 with lab 4 credits

MATH 442 Numerical Analysis 3 credits

Additional Credits Needed: 29 credits of general electives if needed to reach 120

Total credits to be taken at SU: 60

Actuarial Track:

YEAR 3				
SEMESTER	FALL		SPRING	
RECOMMENDED COURSES	MATH 312 Mathematical Statistics I	3	MATH 313 Mathematical Statistics II	3
	MATH 326 Linear Algebra	3	MATH 342 Time Series Analysis	3
	ACC 140 Financial Accounting	3	ACC 141 Managerial Accounting	3
	General Elective	3	General Elective	3
	General Elective	3	General Elective	3
CREDITS	15 CREDITS		15 CREDITS	
YEAR 4				
SEMESTER	FALL		SPRING	
RECOMMENDED COURSES	Senior Capstone	9	MATH 418 Mathematical Modeling	3
	MATH 425 Scientific Computer Programming	3	MATH 420 Actuarial Mathematics	3
	EC 202 Microeconomics	3	FIN 300 Principals of Finance	3
			General Elective	3
			General Elective	3
CREDITS	15 CREDITS		15 CREDITS	

Business Track:

YEAR 3				
SEMESTER	FALL		SPRING	
RECOMMENDED COURSES	MATH 312: Mathematical Statistics I	3	MATH 313: Mathematical Statistics II	3
	MATH 326: Linear Algebra	3	MATH Elective	3

	MGT 204 or MKT 206 or ACC 140	3	Business Elective	3
	General Elective	3	General Elective	3
	General Elective	3	General Elective	3
CREDITS	15 CREDITS		15 CREDITS	
YEAR 4				
SEMESTER	FALL		SPRING	
RECOMMENDED COURSES	Senior Capstone	9	MATH 418: Mathematical Modeling	3
	MATH 425: Scientific Computer Programming	3	MATH 442: Numerical Analysis	3
	General Elective	3	Business Elective	3
			General Elective	3
			General Elective	3
CREDITS	15 CREDITS		15 CREDITS	

*Choose from the following MATH electives: MATH 215: Mathematics and Art, MATH 218, Geometry: MATH 342: Time Series, MATH 365: Independent Research in Mathematics, MATH 420: Actuarial Math, and MATH 490: Special Topics in Mathematics.

Interdisciplinary Track:

YEAR 3				
SEMESTER	FALL		SPRING	
RECOMMENDED COURSES	MATH 312: Mathematical Statistics I	3	MATH 313: Mathematical Statistics II	3
	MATH 326: Linear Algebra	3	Math Elective*	3
	MATH 301: Mathematical Structures	3	General Elective	3
	General Elective	3	General Elective	3
	General Elective	3	General Elective	3
CREDITS	15 CREDITS		15 CREDITS	
YEAR 4				
SEMESTER	FALL		SPRING	
RECOMMENDED COURSES	Senior Capstone	9	MATH 418: Mathematical Modeling	3
	MATH 425: Scientific Computer Programming	3	MATH 442: Numerical Analysis	3
	General Elective	3	General Elective	3
			General Elective	3
			General Elective	3
CREDITS	15 CREDITS		15 CREDITS	

*Choose from the following MATH electives: MATH 215: Mathematics and Art, MATH 218, Geometry: MATH 342: Time Series, MATH 365: Independent Research in Mathematics, MATH 420: Actuarial Math, and MATH 490: Special Topics in Mathematics.

Scientific Track:

YEAR 3				
SEMESTER	FALL		SPRING	
RECOMMENDED COURSES	MATH 312: Mathematical Statistics I	3	MATH 313: Mathematical Statistics II	3
	MATH 326: Linear Algebra	3	CHEM 115/L or BIO 113/L	4

	General Elective	4	General Elective	3
	General Elective	3	General Elective	3
	General Elective	3	General Elective	3
CREDITS	15 CREDITS		16 CREDITS	
YEAR 4				
SEMESTER	FALL		SPRING	
RECOMMENDED COURSES	Senior Capstone	9	MATH 418: Mathematical Modeling	3
	MATH 425: Scientific Computer Programming	3	MATH 442: Numerical Analysis	3
	General Elective	3	General Elective	3
			General Elective	3
			General Elective	3
CREDITS	15 CREDITS		15 CREDITS	