Applied Mathematics / BS Degree Scientific Track

Suggested Course Sequence

For students entering the major in catalog year **2023-24**

YEAR 1

SEMESTER	FALL 2023		SPRING 2024	
	INT 100 Principles of Academic Integrity	0	CHEM 114 or 115/115I/115S General Chemistry I with Lab & SoLVE or BIO/112 or 113/113L General Biology I with Lab Scientific Reasoning - Lab (SR-L)	4
	FYS 100 First Year Seminar	1		
	ENG 151 College Writing I	3		
	MATH 220 Calculus I Quantitative Literacy (QL)	4	MATH 221 Calculus II Quantitative Literacy (QL)	4
	Communication Intensive (CI)	3	ENG 152 College Writing II	3
	Humanities I* (HUM)	3	Humanities II* (HUM)	3
	General Elective/Minor Course	3	General Elective/Minor Course	3
CREDITS	**14 - 17 CREDITS**		**14 - 17 CREDITS**	

YEAR 2

SEMESTER	FALL 2024		SPRING 2025	
	MATH 222 Calculus III *(Offered fall)*	4	MATH 321 Differential *Equations (Offered spring)*	3
	CHEM 116/116L/116S General Chemistry Lab II with Lab & SoLVE or BIO 114/114L General Biology II with Lab	4	MATH Elective (1 of 3)	3
	Fine Arts (FA)	3	200-Level Writing Intensive (WI)	3
	Humanities III* (HUM)	3	Humanities IV* (HUM)	3
	General Elective/Minor Course	3	General Elective/Minor Course	3
CREDITS	**17 CREDITS**		**15 CREDITS**	

YEAR 3

SEMESTER	FALL 2025		SPRING 2026	
	MATH 425 Scientific Computer Programming *(Offered fall, odd years)*	3	MATH 418 Mathematical Modeling *(Offered spring, even years)*	3
	MATH 442 Numerical Analysis *(Offered fall, odd years)*	3	MATH Elective (2 of 3)	3
	Science Elective (Choose from: BIO, BIOCH, CHEM, ENV, PHYS)	3-4	Science Elective (Choose from: BIO, BIOCH, CHEM, ENV, PHYS)	3-4
	General Elective/Minor Course	3	General Elective/Minor Course	3
	General Elective/Minor Course	3	General Elective/Minor Course	3
CREDITS	**15 - 16 CREDITS**		**15 - 16 CREDITS**	

YEAR 4

SEMESTER	FALL 2026		SPRING 2027	
	MATH 470 or 471 Capstone Internship[1] or SCI 301 Internship	3/6	MATH 475 Capstone Seminar 300/400-Level Writing Intensive (WI)	3
	MATH 312 Mathematical Statistics I *(Offered fall, even years)*	3	MATH 313 Mathematical Statistics II *(Offered spring, odd years)*	3
	MATH 326 Linear Algebra *(Offered fall, even years)*	3	MATH Elective (3 of 3)[1] or General Elective	3
	Social Science I** (SS)	3	Social Science II** (SS)	3
	General Elective/Minor Course, if needed	3	General Elective/Minor Course, if needed	3
CREDITS	**12 - 15 CREDITS**		**12 - 15 CREDITS**	

PROGRAM POLICIES

Specific information regarding program policies and tracks (if applicable) may be found in the Stevenson University Catalog. Please consult with your academic advisor/success coach if you need additional information.

Prerequisite and co-requisite information is listed in the course descriptions.

No student, regardless of major, will be permitted to advance to the next course without earning a grade of "C" or better in the prerequisite course(s). When a grade below a "C" is earned in a major course, the student must repeat that course. A course may be repeated once without special permission.

COURSE INFORMATION

FYS-100 First Year Seminar
1-credit course required for all first-year students.

INT-100 Principles of Academic Integrity
0-credit Blackboard course required for all students.

[1] A student taking the 6-credit internship (MATH 471) can take one less MATH Elective.

GENERAL EDUCATION NOTES

Stevenson Educational Experience (SEE) courses are identified in blue.

- Specific courses that fulfill SEE requirements are listed in the SU Catalog, on the SU Now Portal, and through Student Planning.
- Students must complete all SEE and major requirements and earn a minimum of 120 credits.
- A minimum of 15 credits must be taken at the 300/400 level.

*HUMANITIES classes must be from at least three different disciplines.

**SOCIAL SCIENCE classes must be from two different disciplines