# Applied Mathematics / BS Degree Interdisciplinary Track

## Suggested Course Sequence

For students entering the major in catalog year 2023-24

YEAR 1 SEMESTER	FALL 2023		SPRING 2024	
JEMESTER .		0	SPRING 2024	
	INT 100 Principles of Academic Integrity	1	Communication Intensive (CI)	2
	FYS 100 First Year Seminar		Communication Intensive (CI)	3
	ENG 151 College Writing I MATH 220 Calculus I	3	ENG 152 College Writing II  MATH 221 Calculus II	3
	Quantitative Literacy (QL)	4	Ouantitative Literacy (OL)	4
	Humanities I* (HUM)	3	Humanities II* (HUM)	3
	Social Science I** (SS)	3	Social Science II** (SS)	3
CREDITS		REDITS	16 CF	
	14 CF	EDT12	10 Cr	KEDII
YEAR 2 SEMESTER	FALL 2024		SPRING 2025	
3LIML3 I LK	MATH 222 Calculus III (Offered fall)	4	MATH Elective (1 of 3)	3
	200-Level Writing Intensive (WI)	3	,	3
	200-Level writing intensive (WI)	3	MATH Elective 200-level or higher PHYS 215 General Physics I with Calculus	3
	Fine Arts (FA)	3	Scientific Reasoning - Lab (SR-L)	4
	Humanities III* (HUM)	3	Humanities IV* (HUM)	3
	General Elective/Minor Course	3	General Elective/Minor Course	3
	General Electro miner ecolos		,	
CDEDITS	16 CE	EDITE	16 CDI	ENTT
	16 CF	EDITS	16 CRI	EDITS
YEAR 3 SEMESTER	FALL 2025	REDITS	SPRING 2026	EDITS
YEAR 3	FALL 2025	REDITS		EDITS
YEAR 3	FALL 2025  MATH 425 Scientific Computer Programming (Offered fall, odd years)	REDITS	SPRING 2026	BDITS
YEAR 3	FALL 2025  MATH 425 Scientific Computer Programming (Offered fall, odd years)  MATH 442 Numerical Analysis	3	SPRING 2026  MATH 418 Mathematical Modeling (Offered spring, even years)	3
YEAR 3	FALL 2025  MATH 425 Scientific Computer Programming (Offered fall, odd years)  MATH 442 Numerical Analysis (offered fall, odd years)	3	SPRING 2026  MATH 418 Mathematical Modeling (Offered spring, even years)  MATH Elective (3 of 3) <sup>1</sup>	3
YEAR 3	FALL 2025  MATH 425 Scientific Computer Programming (Offered fall, odd years)  MATH 442 Numerical Analysis (offered fall, odd years)  MATH Elective (2 of 3)	3 3 3	SPRING 2026  MATH 418 Mathematical Modeling (Offered spring, even years)  MATH Elective (3 of 3) <sup>1</sup> MATH 321 Differential Equations (Offered spring)	3 3 3
YEAR 3	FALL 2025  MATH 425 Scientific Computer Programming (Offered fall, odd years)  MATH 442 Numerical Analysis (offered fall, odd years)  MATH Elective (2 of 3)  PHYS 216 General Physics II with Calculus	3 3 3 4	SPRING 2026  MATH 418 Mathematical Modeling (Offered spring, even years)  MATH Elective (3 of 3)¹  MATH 321 Differential Equations (Offered spring)  General Elective/Minor Course	3 3 3 3
YEAR 3	FALL 2025  MATH 425 Scientific Computer Programming (Offered fall, odd years)  MATH 442 Numerical Analysis (offered fall, odd years)  MATH Elective (2 of 3)	3 3 3	SPRING 2026  MATH 418 Mathematical Modeling (Offered spring, even years)  MATH Elective (3 of 3) <sup>1</sup> MATH 321 Differential Equations (Offered spring)	3 3 3
YEAR 3 SEMESTER CREDITS	FALL 2025  MATH 425 Scientific Computer Programming (Offered fall, odd years)  MATH 442 Numerical Analysis (offered fall, odd years)  MATH Elective (2 of 3)  PHYS 216 General Physics II with Calculus  General Elective/Minor Course	3 3 3 4	SPRING 2026  MATH 418 Mathematical Modeling (Offered spring, even years)  MATH Elective (3 of 3)¹  MATH 321 Differential Equations (Offered spring)  General Elective/Minor Course	3 3 3 3 3
YEAR 3 SEMESTER  CREDITS YEAR 4	FALL 2025  MATH 425 Scientific Computer Programming (Offered fall, odd years)  MATH 442 Numerical Analysis (offered fall, odd years)  MATH Elective (2 of 3)  PHYS 216 General Physics II with Calculus General Elective/Minor Course	3 3 3 4 3	SPRING 2026  MATH 418 Mathematical Modeling (Offered spring, even years)  MATH Elective (3 of 3)¹  MATH 321 Differential Equations (Offered spring)  General Elective/Minor Course  General Elective/Minor Course	3 3 3 3 3
YEAR 3 SEMESTER CREDITS	FALL 2025  MATH 425 Scientific Computer Programming (Offered fall, odd years)  MATH 442 Numerical Analysis (offered fall, odd years)  MATH Elective (2 of 3)  PHYS 216 General Physics II with Calculus  General Elective/Minor Course  16 CR	3 3 3 4 3	SPRING 2026  MATH 418 Mathematical Modeling (Offered spring, even years)  MATH Elective (3 of 3) <sup>1</sup> MATH 321 Differential Equations (Offered spring)  General Elective/Minor Course  General Elective/Minor Course  15 CRI	3 3 3 3
YEAR 3 SEMESTER  CREDITS YEAR 4	FALL 2025  MATH 425 Scientific Computer Programming (Offered fall, odd years)  MATH 442 Numerical Analysis (offered fall, odd years)  MATH Elective (2 of 3)  PHYS 216 General Physics II with Calculus  General Elective/Minor Course  16 CR  FALL 2026  MATH 470 or 471 Capstone Internship¹ or	3 3 4 3 <b>REDITS</b>	SPRING 2026  MATH 418 Mathematical Modeling (Offered spring, even years)  MATH Elective (3 of 3) <sup>1</sup> MATH 321 Differential Equations (Offered spring)  General Elective/Minor Course  General Elective/Minor Course  15 CRI  SPRING 2027  MATH 475 Capstone Seminar	3 3 3 3 3 EDITS
YEAR 3 SEMESTER  CREDITS YEAR 4	FALL 2025  MATH 425 Scientific Computer Programming (Offered fall, odd years)  MATH 442 Numerical Analysis (offered fall, odd years)  MATH Elective (2 of 3)  PHYS 216 General Physics II with Calculus  General Elective/Minor Course  16 CR  FALL 2026  MATH 470 or 471 Capstone Internship¹ or SCI 301 Internship	3 3 3 4 3	SPRING 2026  MATH 418 Mathematical Modeling (Offered spring, even years)  MATH Elective (3 of 3)¹  MATH 321 Differential Equations (Offered spring)  General Elective/Minor Course  General Elective/Minor Course  15 CRI  SPRING 2027  MATH 475 Capstone Seminar 300/400-Level Writing Intensive (WI)	3 3 3 3 3
YEAR 3 SEMESTER  CREDITS YEAR 4	FALL 2025  MATH 425 Scientific Computer Programming (Offered fall, odd years)  MATH 442 Numerical Analysis (offered fall, odd years)  MATH Elective (2 of 3)  PHYS 216 General Physics II with Calculus  General Elective/Minor Course  16 CR  FALL 2026  MATH 470 or 471 Capstone Internship¹ or SCI 301 Internship  MATH 312 Mathematical Statistics I	3 3 3 4 3 <b>REDITS</b>	SPRING 2026  MATH 418 Mathematical Modeling (Offered spring, even years)  MATH Elective (3 of 3)¹  MATH 321 Differential Equations (Offered spring)  General Elective/Minor Course  General Elective/Minor Course  15 CRI  SPRING 2027  MATH 475 Capstone Seminar 300/400-Level Writing Intensive (WI)  MATH 301 Mathematical Structures	3 3 3 3 3 <b>EDITS</b>
YEAR 3 SEMESTER  CREDITS YEAR 4	FALL 2025  MATH 425 Scientific Computer Programming (Offered fall, odd years)  MATH 442 Numerical Analysis (offered fall, odd years)  MATH Elective (2 of 3)  PHYS 216 General Physics II with Calculus  General Elective/Minor Course  16 CR  FALL 2026  MATH 470 or 471 Capstone Internship¹ or SCI 301 Internship	3 3 4 3 <b>REDITS</b>	SPRING 2026  MATH 418 Mathematical Modeling (Offered spring, even years)  MATH Elective (3 of 3)¹  MATH 321 Differential Equations (Offered spring) General Elective/Minor Course  General Elective/Minor Course  15 CRI  SPRING 2027  MATH 475 Capstone Seminar 300/400-Level Writing Intensive (WI)  MATH 301 Mathematical Structures (Offered spring, odd years)	3 3 3 3 3 EDITS
YEAR 3 SEMESTER  CREDITS YEAR 4	FALL 2025  MATH 425 Scientific Computer Programming (Offered fall, odd years)  MATH 442 Numerical Analysis (offered fall, odd years)  MATH Elective (2 of 3)  PHYS 216 General Physics II with Calculus  General Elective/Minor Course  16 CR  FALL 2026  MATH 470 or 471 Capstone Internship¹ or SCI 301 Internship  MATH 312 Mathematical Statistics I	3 3 3 4 3 <b>REDITS</b>	SPRING 2026  MATH 418 Mathematical Modeling (Offered spring, even years)  MATH Elective (3 of 3)¹  MATH 321 Differential Equations (Offered spring) General Elective/Minor Course  General Elective/Minor Course  15 CRI  SPRING 2027  MATH 475 Capstone Seminar 300/400-Level Writing Intensive (WI)  MATH 301 Mathematical Structures (Offered spring, odd years)  MATH 313 Mathematical Statistics II	3 3 3 3 3 <b>EDITS</b>
YEAR 3 SEMESTER  CREDITS YEAR 4	FALL 2025  MATH 425 Scientific Computer Programming (Offered fall, odd years)  MATH 442 Numerical Analysis (offered fall, odd years)  MATH Elective (2 of 3)  PHYS 216 General Physics II with Calculus  General Elective/Minor Course  16 CR  FALL 2026  MATH 470 or 471 Capstone Internship¹ or SCI 301 Internship  MATH 312 Mathematical Statistics I (Offered fall, even years)  MATH 326 Linear Algebra (Offered fall, even years)	3 3 4 3 <b>REDITS</b>	SPRING 2026  MATH 418 Mathematical Modeling (Offered spring, even years)  MATH Elective (3 of 3)¹  MATH 321 Differential Equations (Offered spring)  General Elective/Minor Course  General Elective/Minor Course  15 CRI  SPRING 2027  MATH 475 Capstone Seminar 300/400-Level Writing Intensive (WI)  MATH 301 Mathematical Structures (Offered spring, odd years)  MATH 313 Mathematical Statistics II (Offered spring, odd years)	3 3 3 3 3 <b>EDIT</b> :
YEAR 3 SEMESTER  CREDITS YEAR 4	FALL 2025  MATH 425 Scientific Computer Programming (Offered fall, odd years)  MATH 442 Numerical Analysis (offered fall, odd years)  MATH Elective (2 of 3)  PHYS 216 General Physics II with Calculus General Elective/Minor Course  16 CR  FALL 2026  MATH 470 or 471 Capstone Internship¹ or SCI 301 Internship  MATH 312 Mathematical Statistics I (Offered fall, even years)	3 3 4 3 <b>REDITS</b>	SPRING 2026  MATH 418 Mathematical Modeling (Offered spring, even years)  MATH Elective (3 of 3)¹  MATH 321 Differential Equations (Offered spring) General Elective/Minor Course  General Elective/Minor Course  15 CRI  SPRING 2027  MATH 475 Capstone Seminar 300/400-Level Writing Intensive (WI)  MATH 301 Mathematical Structures (Offered spring, odd years)  MATH 313 Mathematical Statistics II	3 3 3 3 3 <b>EDITS</b>

#### **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 O-credit Blackboard course required for all students

<sup>1</sup> 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