

FINANCIAL MATHEMATICS MAJOR, (B.S.)

The major in the Finance track of the Mathematics major serves several purposes. The program prepares students to pursue careers and/or graduate education in Actuarial Mathematics and Financial Engineering as well as Data Analytics. Students will take courses in both Mathematics and Finance to learn about various financial models and their underlying mathematics.

Link to College Core requirement (<http://catalogue.shu.edu/undergraduate/college-arts-sciences/core-curriculum/>).

Code	Title	Hours
Freshman Year		
CSAS 1114	Intro to Program Design I	3
MATH 1501	Calculus I - Math - Phys Sci	4
MATH 1511	Calculus II - Math - Phys Sci	4
MATH 1611	Intro to Discrete Mathematics	3
PHIL 1204	Symbolic Logic (recommended)	3
ECON 1402	Principles of Economics I	3
ECON 1403	Principles of Economics II	3
Sophomore Year		
MATH 2511	Calculus III - Math - Phys Sci	4
MATH 2711	Intro Probability - Statistics	4
MATH 2813	Linear Algebra	4
BACC 2103	Financial Accounting	3
BFIN 2201	Business Finance	3
Junior-Senior Year		
MATH 3515	Analysis	4
MATH 3711	Statistical Analysis	3
MATH 3721	Financial Calculus	3
MATH 4722	Adv Topics Financial Calculus	3
Select four of the following five courses:		12
BFIN 3211	Financial Strategy	
BFIN 4227	Investment Analysis	
BFIN 4234	Futures, Options and Other Derivatives	
BFIN 4250	Fixed Income Analysis	
BFIN 4255	Financial Modeling	
Total Hours		66

Departmental Honors in Mathematics

Students who wish to graduate with departmental honors in mathematics:

- must have 3.3 GPA in major courses numbered 3000 or above, including CSAS courses used to satisfy major requirements, a 3.0 overall average GPA, and must have taken at least 60 credits at Seton Hall;
- must complete one full-year sequence in either Algebra (MATH 3815 Abstract Algebra-MATH 4816 Advanced Topics in Algebra) or Analysis (MATH 3515 Analysis-MATH 4516 Advanced Topics in Analysis); and

- must complete a capstone project, ordinarily through a thesis developed for Senior Seminar (MATH 4912 Senior Project), under supervision of a department faculty member.

This requirement may be satisfied in conjunction with the thesis requirement in the Humanities Honors Program and is in addition to the 52-credit mathematics major requirement.