

Honors Math Financial Track Requirements

This requires an ASC Honors contract

Part A: Required Prerequisites

Choose **ONE** of the following calculus options:

Math 1151 & 1152	Calculus I & II	5,5
Math 1181H	Honors Calculus I	5

Econ 2001.01 & 2002.01	Principles of Microeconomics / Macroeconomics	3,3
CSE 2111	Modeling and Problem Solving with Spreadsheets and Databases	3
CSE 1222 or 1223	Intro to Computer Programming in C++ for Engineers and Scientists or Java	3

Choose **ONE** of the following accounting options:

ACCTMIS 2000	Foundations of Accounting	3
ACCTMIS 2200 & 2300	Introduction to Accounting I & II	3,3

Part B: Major Program (Minimum grade of B- and minimum math GPA of 3.2)

Honors Core Requirements -- At most 2 of the following Honors math can count toward the "5 Honors eligible courses":

Math 2153 or 2182H	Calculus III or Honors Calculus II	Prereq: Math 1152 or Math 1181H	4-5
Math 2568 or 2568H	Linear Algebra	Prereq: Math 2153	3
Math 3345 or 3345H	Foundations of Higher Mathematics	Prereq: Math 2153	3

Core Requirements

Math 4530 or Stat 4201	Probability or Intro to Mathematical Statistics I	Prereq: Math 2153	3-4
Stat 4202	Intro to Mathematical Statistics II	Prereq: Math 4530 or Stat 4201	4

Required Courses for Math Financial Track

Math 2255	Differential Equations	Prereq: Math 2153	3
Math 3589	Intro to Financial Mathematics	Prereq: Math 3345 & (Math 4530 or Stat 4201)	3
Math 3618	Theory of Interest	Prereq: Math 1152	3
Math 5632	Financial Economics for Actuaries	Prereq: Math 3618 & (Math 4530 or Stat 4201)	3

Choose **ONE** of the following:

Math 3607	Beginning Scientific Computing	Prereq: Math 2255 & 2568	3
Math 5601	Essentials of Numerical Computing	Prereq: Math 2568 & <u>Math 4556</u>	3

Choose **ONE** of the following:

Math 4557	Partial Differential Equations	Prereq: Math 2255	3
Math 4512	Partial Differential Equations for Sci & Eng	Prereq: Math 2153	3
Math 4547	Introductory Analysis I	Prereq: Math 3345	3

Choose **ONE** of the following sequences:

Math 5633 & 5634	Loss Models I & II	Prereq: (Math 4530 or Stat 4201) & Stat 4202	3,3
Math 5401 & 5402	Applied Differential Equations I & II	Prereq: Math 2255 & 2568	3,3
Math 5635 & 5636	Stochastic Calculus for Finance I & II	Prereq: (Math 4530 or Stat 4201) & (Math 3345 or 3589)	3,3
Math 4181H & 4182H	Honors Analysis I & II	Prereq: Permission	5,5

Choose **ONE** of the following:

BusFin 3120	Foundations of Finance	Prereq: AcctMIS 2000	3
BusFin 3220	Business Finance	Prereq: AcctMIS 2200 & 2300	3

Note: Honors math eligible courses are bolded.

Total Hours 44-50

Honors Math Financial Track Sample Schedule

	Autumn		Spring	
Year 1	Math 1151	5	Math 1152	5
	CSE 2111	3	English 1110	3
	Econ 2001 or 2002	3	Econ 2001 or 2002	3
	ARTSSCI 1100.01	1	CSE 1222 or 1223	3
	GE	3		
		15		14
Year 2	Math 2153	4	Math 2255	3
	Math 3618	3	Math 3345H	3
	AcctMIS 2000	3	GE Language 1102	4
	GE Language 1101	4	GE	3
	GE	3	GE	3
		17		16
Year 3	Math 2568H	3	Math 3589	3
	Math 4530 or Stat 4201	3 or 4	Stat 4202	4
	Math 4556 (AU only; prereq for Math 5601)	3	Math 5632	3
	GE Language 1103	4	GE	3
	GE	3	GE	3
		16 or 17		16
Year 4	Math 3607 or Math 5601	3	Math 4557	3
	Math 5633	3	Math 5634	3
	GE	3	BusFin 3120	3
	GE	3	GE	3
	GE	3	GE	3
		15		15
		TOTAL		121

ASC Honors Contract: Students pursuing such a contract must complete at least "**5 honors math eligible courses**" selected in consultation with an honors math advisor. At most 2 courses can count from 2182H, 2568H, or 3345H. For the remaining 3 courses, one needs to complete one of the listed sequences available for each track, and select another course from a list of approved courses at the 5000 level (see honors math advisor).