

Actuarial Science Requirements

Part A: Required Prerequisites

Math 1151	Calculus I	5
Math 1152	Calculus II	5
AcctMIS 2000	Foundations of Accounting	3
Econ 2001	Principles of Microeconomics	3
Econ 2002	Principles of Macroeconomics	3

Choose one of the following three:

CSE 1222	Introduction to Computer Programming in C++ for Engineers and Scientists	3
CSE 1223	Introduction to Computer Programming in Java	3
CSE 2111	Modeling and Problem Solving with Spreadsheets and Databases	3

Part B: Major Program (Minimum grade of C- and GPA of 2.0)

Math 2153	Calculus III	4
Math 2568	Linear Algebra	3

Choose one of the following two:

Math 4530	Probability ¹	3
Stat 4201	Introduction to Mathematical Statistics I ¹	4

Complete the following four:

Stat 4202	Introduction to Mathematical Statistics II	4
Math 3588	Practicum in Actuarial Science	3
Math 3618	Theory of Interest ²	3
Math 5632	Financial Economics for Actuaries ⁴	3
BusFin 3120	Foundations of Finance	3

Choose one of the following sequences:

Math 5630	Life Contingencies I ³	3
Math 5631	Life Contingencies II ³	3
Math 5633	Loss Models I ⁵	3
Math 5634	Loss Models II ⁵	3
Total Hours		32-33

Actuarial Exams: ¹SOA P/CAS 1 ²SOA FM/CAS 2 ³SOA MLC/CAS LC ⁴SOA MFE/CAS 3F ⁵SOA C/CAS 4

Actuarial Science Sample Schedule

	Autumn		Spring		Major Hours
Year 1	Math 1151	5	Math 1152	5	0
	CSE 1222, 1223 or 2111	3	AcctMIS 2000	3	
Year 2	Econ 2001 or 2002	3	Econ 2001 or 2002	3	13-14
	ARTSSCI 1100.01	1	English 1110	3	
Year 3	GE	3	GE	3	13
		15		17	
Year 4	Math 2153	4	Math 2568	3	6
	Math 3618 ²	3	Stat 4201 ¹ or Math 4530 ¹	3-4	
	GE	3	GE	3	
	GE	3	GE	3	
	GE	3	GE	3	
		16		16	
	Stat 4202	4	Math 3588	3	
	BusFin 3120	3	Math 5632 ⁴	3	
	GE	3	BusFin 3222 (Suggested VEE)	3	
	GE	3	GE	3	
		13		12	
	Math 5630 ³ or 5633 ⁵	3	Math 5631 ³ or 5634 ⁵	3	
	GE	3	GE	3	
		6		6	

Actuarial Exams: ¹SOA P/CAS 1 ²SOA FM/CAS 2 ³SOA MLC/CAS LC ⁴SOA MFE/CAS 3F ⁵SOA C/CAS 4

Additional hours may be necessary depending on course selection.

Students should complete the corresponding actuarial exam the semester after completing the correlate course.