

Actuarial Science Requirements

Part A: Required Prerequisites

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

Choose one of the following four:

CSE 1222	Introduction to Computer Programming in C++ for Engineers and Scientists	3
CSE 1223	Introduction to Computer Programming in Java	3
CSE 1224	Introduction to Computer Programming in Python	3
CSE 2111	Modeling and Problem Solving with Spreadsheets and Databases	3

Choose one of the following three:

Comm 2367*	Persuasive Communication	3
Comm 2110*	Principles of Effective Public Speaking	3
Comm 2131*	Business and Professional Speaking	3

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

Math 2153	Calculus III	4
Math 2568	Linear Algebra	Prereq: Math 2153 3

Choose one of the following two:

Math 4530**	Probability ¹	Prereq: Math 2153 3
Stat 4201**	Introduction to Mathematical Statistics I ¹	Prereq: Math 2153 4

Complete the following five:

Stat 4202	Introduction to Mathematical Statistics II	Prereq: Stat 4201 or Math 4530 4
Math 3588	Practicum in Actuarial Science	Prereq: Junior Standing and two writing courses 3
Math 3618	Theory of Interest ²	Prereq: Math 1152 3
BusFin 3120	Foundations of Finance	Prereq: AcctMIS 2000, Econ 2001, CSE 3
English 3304*	Business and Professional Writing	3

Choose three of the following courses:

Math 5630	Life Contingencies I ^{3-a}	Prereq: Math 3618 and Stat 4201 or Math 4530 3	
Math 5631	Life Contingencies II ⁴	Prereq: Math 5630 3	
Math 5632	Financial Economics for Actuaries	Prereq: Math 3618 and Stat 4201 or Math 4530 3	
Math 5633	Loss Models I ^{3-b}	Prereq: Stat 4202 3	
Math 5634	Loss Models II ⁵	Prereq: Math 5633 3	
Math 5637	Topics from Risk Modeling ⁶	Prereq: Stat 4202 and Math 2568 3	
		Total Hours	35-36

Actuarial Exams: ¹SOA P/CAS 1 ²SOA FM/CAS 2 ^{3-a}SOA FAM-L ^{3-b}SOA FAM-S ⁴SOA ALTAM ⁵SOA ASTAM ⁶SOA SRM

Honors Degree: Students completing an honors degree must complete at least 5 honors eligible courses selected in consultation with a faculty advisor. At most 2 courses can count from (2182H, 2568H, 3345H). At least 3 courses must be at the 5000 level.

* New requirements for students starting Autumn 2020 and later.

****Entry into the Actuarial Science Major requires a 3.0 GPA and a B- or better in Math 4530 or Stat 4201.**

Actuarial Science Sample Schedule

	Autumn		Spring	
Year 1	Math 1151	5	Math 1152	5
	CSE 1222, 1223, 1224 or 2111	3	AcctMIS 2000	3
	Econ 2001 or 2002	3	Econ 2001 or 2002	3
	ARTSSCI 1100.01	1	English 1110	3
	GE	3	GE	3
		15		17
Year 2	Math 2153	4	Math 2568	3
	Math 3618 ²	3	Stat 4201 ¹ or Math 4530 ¹	3-4
			Comm 2367, 3110 or 2131	3
		7		9-10
Year 3	Stat 4202	4	Math 3588	3
	BusFin 3120	3	Actuarial Elective	3
			English 3304	3
		7		9
Year 4	Actuarial Elective	3	Actuarial Elective	3
		3		3

Actuarial Exams: ¹SOA P/CAS 1 ²SOA FM/CAS 2 ^{3-a}SOA FAM-L ^{3-b}SOA FAM-S ⁴SOA ALTAM ⁵SOA ASTAM ⁶SOA SRM

Additional hours may be necessary depending on course selection.