THE OHIO STATE UNIVERSITY

Department of Mathematics
217 Mathematics Building
231 W. 18th Avenue
Columbus, OH 43210-1174
Math.osu.edu
mathadvisors@math.osu.edu

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

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 ●	3

Choose one of the following two:

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

Complete the following six:

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
English 3304**	Business and Professional Writing	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

Actuarial Exams: [1]SOA P/CAS 1   [2] SOA FM/CAS 2   [3] SOA LTAM/CAS MAS1   [4] SOA IFM/CAS 3F   [5] SOA STAM/CAS MAS1 and MAS 2

Total Hours: 35-36

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

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, or 3607H). At least 3 courses must be at the 4000-5000 level.

** New requirements for students starting Autumn 2020 and later.

Online options may be available for courses marked ●.   Please refer to the ASC General Education course list for GE online courses.

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Actuarial Science Sample Schedule

	Autumn		Spring	
Year 1	Math 1151 ●	5	Math 1152 ●	5
	CSE 1222, 1223 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, 2110 or 2131 **	3
		7		9-10
Year 3	Stat 4202	4	Math 3588	3
	BusFin 3120	3	Math 5632[4] ●	3
			English 3304**	3
		7		9
Year 4	Math 5630[3] or 5633[5]	3	Math 5631[3] or 5634[5]	3
		3		3

Actuarial Exams: [1]SOA P/CAS 1   [2] SOA FM/CAS 2   [3] SOA LTAM/CAS MAS1   [4] SOA IFM/CAS 3F   [5] SOA STAM/CAS MAS1 and MAS 2

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