Actuarial Science - Finance Specialization Honours Plan

2022-2023 calendar

These sheets were created to help you plan your courses, not to provide an official list of your graduation requirements. It is ultimately your responsibility to ensure you meet your graduation requirements which are officially listed in the undergraduate calendar. For example, a mistake on this sheet cannot be used as a reason to graduate without meeting official requirements.

1	Course 115 or CS 135 or CS 145 * IATH 135/145 IATH 137/147 IATH 138/148 ECON 101 ECON 102 AFM 101 AFM 102 IATH 235/245 IATH 237/347 STAT 230/240 ACTSC 231 TH 250/251/350 STAT 231/241 ACTSC 372 ACTSC 363 ACTSC 363 ACTSC 331	3A 3	TopicCS Core IAlgebraCalculus ICourse from English Language Competency requirements listIntro to Actuarial PracticeCS Core IILinear Algebra 1Calculus IIIntro MicroeconomicsIntro MacroeconomicsIntroduction to Financial AccountingIntroduction to Managerial AccountingLinear Algebra 2Calculus 3ProbabilityIntroductory Financial MathematicsIntro to Differential EquationsStatisticsLife Contingencies 1Investment Science and Corporate FinanceCasualty and Health Insurance Mathematics 1Life Contingencies 2Introduction to Computational MathematicsIntroduction to Computational Mathematics	Pre-reqs CS Core I ≥60% in M135 ≥60% in M135 ≥60% in M137 ≥60% in M137 ≥60% in M137 2 M136, ≥60% in M138 M136, ≥ 60% M138 M137, level 2A, Coreq S230 M136, M138 M137, level 2A, Coreq S230 M137, level 2A, Coreq S230 M136, M138 M137, level 2A, Coreq S230 Coreq S330 ≥60% in A231, ≥60% in MTHEL 131, S230 ≥60% in A231, ≥60% in A232 Coreq S330 ≥60% in A232	FWS FW (S-?) FWS	SOA exams SOA exams	CAS exams CAS exams CAS exams Case of the second	* a few other options - see first year advis if you have issues ≥60% required for admission to ACTSC * a few other options - see first year advis if you have issues
2 MA 3 Math 5 N 5 MA 6 MA 7 MA 8 CS 11 7 MA 9 MA 1	IATH 135/145 IATH 137/147 h English course MTHEL 131 I 16 or CS 136 or CS 146 IATH 136/146 IATH 138/148 ECON 101 ECON 102 AFM 101 AFM 102 IATH 235/245 IATH 235/245 IATH 237/347 STAT 230/240 ACTSC 231 TH 250/251/350 STAT 231/241 ACTSC 372 ACTSC 363 ACTSC 331	1A 1B 1B 1B 1B 1B 1C 1/2 1 1/2 2A 2A 2A 2A 2A 2B 2B 2/3 3A 3A 3	Algebra Calculus I Course from English Language Competency requirements list Intro to Actuarial Practice CS Core II Linear Algebra 1 Calculus II Intro Microeconomics Intro Macroeconomics Introduction to Financial Accounting Linear Algebra 2 Calculus 3 Probability Introductory Financial Mathematics Intro to Differential Equations Statistics Life Contingencies 1 Investment Science and Corporate Finance Casualty and Health Insurance Mathematics 1 Life Contingencies 2 Introduction to Computational Mathematics	≥60% in M135 ≥60% in M137 AFM101 ≥60% in M136, Coreq M138 M136, ≥ 60% M138 M136, ≥ 60% M138 M137, level 2A, Coreq S230 M136, M138 M138, S230 ≥60% in A231, ≥60% in MTHEL 131, S230 A231, M235, M237 Coreq S330 ≥60% in A232	FWS	VEE-E VEE-AF P FM LTAM IFM, VEE-AF STAM	VEE-E VEE-AF P FM	≥60% required for admission to ACTSC * a few other options - see first year advisif you have issues
3 Math 5 Math 5 N 6 CS 11 7 MA 8 MA 9 MA 1	ATH 137/147 h English course MTHEL 131 16 or CS 136 or CS 146 ATH 136/146 ATH 136/146 ATH 138/148 ECON 101 ECON 102 AFM 101 AFM 102 AFM 102 AFM 102 AFM 235/245 IATH 235/245 IATH 237/347 ATT 230/240 ACTSC 231 TH 250/251/350 STAT 231/241 ACTSC 232 ACTSC 372 ACTSC 363 ACTSC 331	1A 1A 1A 1B 1B 1B 1C 1/2 1 1/2 1 1/2 1 1/2 2A 3A 3A 3	Calculus I Course from English Language Competency requirements list Intro to Actuarial Practice CS Core II Linear Algebra 1 Calculus II Intro Microeconomics Intro Macroeconomics Introduction to Financial Accounting Introduction to Financial Accounting Linear Algebra 2 Calculus 3 Probability Introductory Financial Mathematics Intro to Differential Equations Statistics Life Contingencies 1 Investment Science and Corporate Finance Casualty and Health Insurance Mathematics 1 Life Contingencies 2 Introduction to Computational Mathematics	≥60% in M135 ≥60% in M137 AFM101 ≥60% in M136, Coreq M138 M136, ≥ 60% M138 M136, ≥ 60% M138 M137, level 2A, Coreq S230 M136, M138 M138, S230 ≥60% in A231, ≥60% in MTHEL 131, S230 A231, M235, M237 Coreq S330 ≥60% in A232	FWS	VEE-E VEE-AF P FM LTAM IFM, VEE-AF STAM	VEE-E VEE-AF P FM	* a few other options - see first year advis if you have issues
Math CS 11 CS 11 MA	h English course MTHEL 131 16 or CS 136 or CS 146 ATH 136/146 ATH 138/148 ECON 101 ECON 102 AFM 101 AFM 102 AFM 102 AFM 102 AFM 235/245 ATH 235/245 ATH 237/347 ATH 237/347 ATT 230/240 ACTSC 231 TH 250/251/350 STAT 231/241 ACTSC 232 ACTSC 372 ACTSC 363 ACTSC 331	1A 1 1B 1B 1B 1 1/2 1 1/2 1 1/2 2A 3A 3A 3	Course from English Language Competency requirements list Intro to Actuarial Practice CS Core II Linear Algebra 1 Calculus II Intro Microeconomics Intro Microeconomics Introduction to Financial Accounting Introduction to Financial Accounting Linear Algebra 2 Calculus 3 Probability Introductory Financial Mathematics Intro to Differential Equations Statistics Life Contingencies 1 Investment Science and Corporate Finance Casualty and Health Insurance Mathematics 1 Life Contingencies 2 Introduction to Computational Mathematics	≥60% in M135 ≥60% in M137 AFM101 ≥60% in M136, Coreq M138 M136, ≥ 60% M138 M136, ≥ 60% M138 M137, level 2A, Coreq S230 M136, M138 M138, S230 ≥60% in A231, ≥60% in MTHEL 131, S230 A231, M235, M237 Coreq S330 ≥60% in A232	FWS FWS FWS FWS FWS FWS FWS FWS FWS FWS	VEE-E VEE-AF P FM LTAM IFM, VEE-AF STAM	VEE-E VEE-AF P FM	* a few other options - see first year advis if you have issues
5 M 6 CS 11 6 MA 7 MA 8 MA 9 I 10 I 11 I 12 I 13 MA 14 MA 15 ST 16 A 17 AMAT 18 ST 19 A 20 A 21 A 22 A 23 A 24 A 25 A 26 A 27 ENGL I 28 A 29 A 30 A 31 A 32 A 33 A 34 1 Addit A A A A A A A A A A A A A <td>MTHEL 131 116 or CS 136 or CS 146 ATH 136/146 ATH 138/148 ECON 101 ECON 102 AFM 101 AFM 102 AFM 102 IATH 235/245 IATH 235/245 IATH 237/347 STAT 230/240 ACTSC 231 TH 250/251/350 STAT 231/241 ACTSC 372 ACTSC 363 ACTSC 331</td> <td>1 1B 1B 1B 1P 1/2 1/2 1/2 1/2 2A 3A 3A 3</td> <td>Intro to Actuarial Practice CS Core II Linear Algebra 1 Calculus II Intro Microeconomics Intro Macroeconomics Introduction to Financial Accounting Linear Algebra 2 Calculus 3 Probability Introductory Financial Mathematics Intro to Differential Equations Statistics Life Contingencies 1 Investment Science and Corporate Finance Casualty and Health Insurance Mathematics 1 Life Contingencies 2</td> <td>≥60% in M135 ≥60% in M137 AFM101 ≥60% in M136, Coreq M138 M136, ≥ 60% M138 M136, ≥ 60% M138 M137, level 2A, Coreq S230 M136, M138 M138, S230 ≥60% in A231, ≥60% in MTHEL 131, S230 A231, M235, M237 Coreq S330 ≥60% in A232</td> <td>FWS FWS FWS FWS FWS FWS FWS FWS FWS FWS</td> <td>VEE-E VEE-AF P FM LTAM IFM, VEE-AF STAM</td> <td>VEE-E VEE-AF P FM</td> <td>* a few other options - see first year advis if you have issues</td>	MTHEL 131 116 or CS 136 or CS 146 ATH 136/146 ATH 138/148 ECON 101 ECON 102 AFM 101 AFM 102 AFM 102 IATH 235/245 IATH 235/245 IATH 237/347 STAT 230/240 ACTSC 231 TH 250/251/350 STAT 231/241 ACTSC 372 ACTSC 363 ACTSC 331	1 1B 1B 1B 1P 1/2 1/2 1/2 1/2 2A 3A 3A 3	Intro to Actuarial Practice CS Core II Linear Algebra 1 Calculus II Intro Microeconomics Intro Macroeconomics Introduction to Financial Accounting Linear Algebra 2 Calculus 3 Probability Introductory Financial Mathematics Intro to Differential Equations Statistics Life Contingencies 1 Investment Science and Corporate Finance Casualty and Health Insurance Mathematics 1 Life Contingencies 2	≥60% in M135 ≥60% in M137 AFM101 ≥60% in M136, Coreq M138 M136, ≥ 60% M138 M136, ≥ 60% M138 M137, level 2A, Coreq S230 M136, M138 M138, S230 ≥60% in A231, ≥60% in MTHEL 131, S230 A231, M235, M237 Coreq S330 ≥60% in A232	FWS FWS FWS FWS FWS FWS FWS FWS FWS FWS	VEE-E VEE-AF P FM LTAM IFM, VEE-AF STAM	VEE-E VEE-AF P FM	* a few other options - see first year advis if you have issues
CS 11 6 7 7 8 8 9 9 10 10 10 10 10 10 10 10 10 10	116 or CS 136 or CS 146 ATH 136/146 ATH 138/148 ECON 101 ECON 102 AFM 101 AFM 101 AFM 102 AFM 102 IATH 235/245 IATH 235/245 IATH 237/347 STAT 230/240 ACTSC 231 TH 250/251/350 STAT 231/241 ACTSC 232 ACTSC 372 ACTSC 363 ACTSC 331	1B 1B 1B 1/2 1 1/2 2A 3A 3A 3	CS Core II Linear Algebra 1 Calculus II Intro Microeconomics Intro Macroeconomics Introduction to Financial Accounting Introduction to Managerial Accounting Linear Algebra 2 Calculus 3 Probability Introductory Financial Mathematics Intro to Differential Equations Statistics Life Contingencies 1 Investment Science and Corporate Finance Casualty and Health Insurance Mathematics 1 Life Contingencies 2 Introduction to Computational Mathematics	≥60% in M135 ≥60% in M137 AFM101 ≥60% in M136, Coreq M138 M136, ≥ 60% M138 M136, ≥ 60% M138 M137, level 2A, Coreq S230 M136, M138 M138, S230 ≥60% in A231, ≥60% in MTHEL 131, S230 A231, M235, M237 Coreq S330 ≥60% in A232	FWS FWS FWS FWS FWS FWS FWS FWS FWS FWS	VEE-E VEE-AF P FM LTAM IFM, VEE-AF STAM	VEE-E VEE-AF P FM	* a few other options - see first year advis if you have issues
6 MA 7 MA 8 MA 9 I 10 I 11 I 12 I 13 MA 14 MA 15 ST 16 A 17 AMAT 18 ST 19 A 20 A 21 A 22 A 23 I 24 I 25 I 26 I 27 ENGL I 28 I 29 A 30 A 31 A 32 I 33 A 34 1 Addit A A A A A A A A A A A A A A A A A	CS 146 ATH 136/146 ATH 138/148 ECON 101 ECON 102 AFM 101 AFM 102 AFM 102 IATH 235/245 IATH 235/245 IATH 237/347 ACTSC 231 TH 250/251/350 ACTSC 232 ACTSC 372 ACTSC 363 ACTSC 331	1B 1B 1 1/2 1 1/2 2A 3A 3A 3	Linear Algebra 1 Calculus II Intro Microeconomics Intro Macroeconomics Introduction to Financial Accounting Introduction to Managerial Accounting Linear Algebra 2 Calculus 3 Probability Introductory Financial Mathematics Intro to Differential Equations Statistics Life Contingencies 1 Investment Science and Corporate Finance Casualty and Health Insurance Mathematics 1 Life Contingencies 2 Introduction to Computational Mathematics	≥60% in M135 ≥60% in M137 AFM101 ≥60% in M136, Coreq M138 M136, ≥ 60% M138 M136, ≥ 60% M138 M137, level 2A, Coreq S230 M136, M138 M138, S230 ≥60% in A231, ≥60% in MTHEL 131, S230 A231, M235, M237 Coreq S330 ≥60% in A232	FWS FWS FWS FWS FWS FWS FWS FWS FWS FWS	VEE-E VEE-AF P FM LTAM IFM, VEE-AF STAM	VEE-E VEE-AF P FM	if you have issues
8 MA 9 MA 9 MA 9 MA 1 MA .2 MA .3 MA .4 MA .5 ST .6 A .7 AMAT .8 ST .9 A .2 A .3 A .3 A .3 A .3 A .3 A .3 A .4	ATH 138/148 ECON 101 ECON 102 AFM 101 AFM 102 AFM 102 IATH 235/245 IATH 235/245 IATH 237/347 STAT 230/240 ACTSC 231 TH 250/251/350 STAT 231/241 ACTSC 232 ACTSC 372 ACTSC 363 ACTSC 331	1B 1 1/2 1 1/2 2A 3A 3A 3	Calculus II Intro Microeconomics Intro Macroeconomics Introduction to Financial Accounting Introduction to Managerial Accounting Linear Algebra 2 Calculus 3 Probability Introductory Financial Mathematics Intro to Differential Equations Statistics Life Contingencies 1 Investment Science and Corporate Finance Casualty and Health Insurance Mathematics 1 Life Contingencies 2 Introduction to Computational Mathematics	≥60% in M137 AFM101 ≥60% in M136, Coreq M138 M136, ≥ 60% M138 M136, ≥ 60% M138 M137, level 2A, Coreq S230 M136, M138 M138,S230 ≥60% in A231, ≥60% in MTHEL 131, S230 A231, M235, M237 Coreq S330 ≥60% in A232	FWS FWS FWS FWS FWS FWS FWS FWS FWS FWS	VEE-E VEE-AF P FM LTAM IFM, VEE-AF STAM	VEE-E VEE-AF P FM	First offering is Winter 2021
9 I .0 I .1 I .2 I .3 MA .4 MA .5 ST .6 A .7 AMAT .8 ST .9 A .20 A .21 A .22 A .23 I .24 I .25 I .24 I .25 I .24 I .25 I .24 I .25 I .26 I .27 ENGL I .28 I .30 A .31 A .32 I .33 I .34 1 Addit .34 I Addit .34 A .35 A .36 A .37 A .38 A <td>ECON 101 ECON 102 AFM 101 AFM 102 IATH 235/245 IATH 235/245 IATH 237/347 ACTSC 231 TH 250/251/350 GTAT 231/241 ACTSC 232 ACTSC 372 ACTSC 363 ACTSC 331</td> <td>1 1/2 1 1/2 2A 3A 3A 3</td> <td>Intro Microeconomics Intro Macroeconomics Introduction to Financial Accounting Introduction to Managerial Accounting Linear Algebra 2 Calculus 3 Probability Introductory Financial Mathematics Intro to Differential Equations Statistics Life Contingencies 1 Investment Science and Corporate Finance Casualty and Health Insurance Mathematics 1 Life Contingencies 2 Introduction to Computational Mathematics</td> <td>AFM101 ≥60% in M136, Coreq M138 M136, ≥ 60% M138 M. 137 >80% or M138 M137, level 2A, Coreq S230 M136, M138 M138,S230 ≥60% in A231, ≥60% in MTHEL 131, S230 A231, M235, M237 Coreq S330 ≥60% in A232</td> <td>FWS FWS FWS FWS FWS FWS FWS FWS FWS FWS</td> <td>VEE-E VEE-AF P FM LTAM IFM, VEE-AF STAM</td> <td>VEE-E VEE-AF P FM</td> <td>First offering is Winter 2021</td>	ECON 101 ECON 102 AFM 101 AFM 102 IATH 235/245 IATH 235/245 IATH 237/347 ACTSC 231 TH 250/251/350 GTAT 231/241 ACTSC 232 ACTSC 372 ACTSC 363 ACTSC 331	1 1/2 1 1/2 2A 3A 3A 3	Intro Microeconomics Intro Macroeconomics Introduction to Financial Accounting Introduction to Managerial Accounting Linear Algebra 2 Calculus 3 Probability Introductory Financial Mathematics Intro to Differential Equations Statistics Life Contingencies 1 Investment Science and Corporate Finance Casualty and Health Insurance Mathematics 1 Life Contingencies 2 Introduction to Computational Mathematics	AFM101 ≥60% in M136, Coreq M138 M136, ≥ 60% M138 M. 137 >80% or M138 M137, level 2A, Coreq S230 M136, M138 M138,S230 ≥60% in A231, ≥60% in MTHEL 131, S230 A231, M235, M237 Coreq S330 ≥60% in A232	FWS FWS FWS FWS FWS FWS FWS FWS FWS FWS	VEE-E VEE-AF P FM LTAM IFM, VEE-AF STAM	VEE-E VEE-AF P FM	First offering is Winter 2021
.0 Image: Constraint of the second secon	ECON 102 AFM 101 AFM 102 AFM 102 AFM 235/245 ATH 235/245 ATH 237/347 ATT 230/240 ACTSC 231 TH 250/251/350 ACTSC 232 ACTSC 372 ACTSC 363 ACTSC 331	1/2 1 1/2 2A 3A 3A 3	Intro Macroeconomics Introduction to Financial Accounting Introduction to Managerial Accounting Linear Algebra 2 Calculus 3 Probability Introductory Financial Mathematics Intro to Differential Equations Statistics Life Contingencies 1 Investment Science and Corporate Finance Casualty and Health Insurance Mathematics 1 Life Contingencies 2 Introduction to Computational Mathematics	≥60% in M136, Coreq M138 M136, ≥ 60% M138 M. 137 >80% or M138 M137, level 2A, Coreq S230 M136, M138 M138,S230 ≥60% in A231, ≥60% in MTHEL 131, S230 A231, M235, M237 Coreq S330 ≥60% in A232	FWS FWS FWS FWS FWS FWS FWS FWS FWS FWS	VEE-E VEE-AF P FM LTAM IFM, VEE-AF STAM	VEE-E VEE-AF P FM	First offering is Winter 2021
.1 .2 .3 MA .4 MA .5 ST .6 A .7 AMAT .8 ST .9 A .2 A .3 A	AFM 101 AFM 102 AFM 102 ATH 235/245 ATH 237/347 ATH 230/240 ACTSC 231 TH 250/251/350 ACTSC 232 ACTSC 232 ACTSC 372 ACTSC 363 ACTSC 331	1 1/2 2A 2A 2A 2A 2A 2A 2A 2B 2B 2B 2/3 3A 3A 3A 3A 3A	Introduction to Financial Accounting Introduction to Managerial Accounting Linear Algebra 2 Calculus 3 Probability Introductory Financial Mathematics Intro to Differential Equations Statistics Life Contingencies 1 Investment Science and Corporate Finance Casualty and Health Insurance Mathematics 1 Life Contingencies 2 Introduction to Computational Mathematics	≥60% in M136, Coreq M138 M136, ≥ 60% M138 M. 137 >80% or M138 M137, level 2A, Coreq S230 M136, M138 M138,S230 ≥60% in A231, ≥60% in MTHEL 131, S230 A231, M235, M237 Coreq S330 ≥60% in A232	FWS WS FWS FWS FWS FWS FWS FWS FWS FWS F	VEE-AF P FM LTAM IFM, VEE-AF STAM	VEE-AF P FM	First offering is Winter 2021
.2 MA .3 MA .4 MA .5 ST .6 A .7 AMAT .8 ST .9 A .20 A .21 A .22 A .23 A .24 A .25 A .26 A .27 ENGL .28 A .29 A .20 A .21 A .22 A .24	AFM 102 ATH 235/245 ATH 237/347 ATH 237/347 ACTSC 231 TH 250/251/350 ACTSC 232 ACTSC 232 ACTSC 372 ACTSC 363 ACTSC 331	1/2 2A 2A 2A 2A 2A 2A 2B 2B 2/3 3A 3A 3A 3A 3A	Introduction to Managerial Accounting Linear Algebra 2 Calculus 3 Probability Introductory Financial Mathematics Intro to Differential Equations Statistics Life Contingencies 1 Investment Science and Corporate Finance Casualty and Health Insurance Mathematics 1 Life Contingencies 2 Introduction to Computational Mathematics	≥60% in M136, Coreq M138 M136, ≥ 60% M138 M. 137 >80% or M138 M137, level 2A, Coreq S230 M136, M138 M138,S230 ≥60% in A231, ≥60% in MTHEL 131, S230 A231, M235, M237 Coreq S330 ≥60% in A232	WS FWS FWS FWS FWS FWS FWS FWS FWS FWS F	P FM LTAM IFM, VEE-AF STAM	P FM	First offering is Winter 2021
.3 MA .4 MA .5 ST .6 A .7 AMAT .8 ST .9 A 20 A 21 A 22 A 23 A 24 A 25 A 26 A 27 ENGL 28 A 30 A 31 A 32 A 33 A 34 1 Addit A A A A A A	ATH 235/245 ATH 237/347 TAT 230/240 ACTSC 231 TH 250/251/350 TAT 231/241 ACTSC 232 ACTSC 372 ACTSC 363 ACTSC 331	2A 2A 2A 2A 2A 2 2 2B 2B 2/3 3A 3A 3A 3A 3A	Linear Algebra 2 Calculus 3 Probability Introductory Financial Mathematics Intro to Differential Equations Statistics Life Contingencies 1 Investment Science and Corporate Finance Casualty and Health Insurance Mathematics 1 Life Contingencies 2 Introduction to Computational Mathematics	≥60% in M136, Coreq M138 M136, ≥ 60% M138 M. 137 >80% or M138 M137, level 2A, Coreq S230 M136, M138 M138,S230 ≥60% in A231, ≥60% in MTHEL 131, S230 A231, M235, M237 Coreq S330 ≥60% in A232	FWS FWS FWS FWS FWS FWS FWS FWS FWS	FM LTAM IFM, VEE-AF STAM	FM	First offering is Winter 2021
.3 MA .4 MA .5 ST .6 A .7 AMAT .8 ST .9 A 20 A 21 A 22 A 23 A 24 A 25 A 26 A 27 ENGL 28 A 30 A 31 A 32 A 33 A 34 1 Addit A A A A A A	ATH 235/245 ATH 237/347 TAT 230/240 ACTSC 231 TH 250/251/350 TAT 231/241 ACTSC 232 ACTSC 372 ACTSC 363 ACTSC 331	2A 2A 2A 2A 2A 2 2 2B 2B 2/3 3A 3A 3A 3A 3A	Linear Algebra 2 Calculus 3 Probability Introductory Financial Mathematics Intro to Differential Equations Statistics Life Contingencies 1 Investment Science and Corporate Finance Casualty and Health Insurance Mathematics 1 Life Contingencies 2 Introduction to Computational Mathematics	≥60% in M136, Coreq M138 M136, ≥ 60% M138 M. 137 >80% or M138 M137, level 2A, Coreq S230 M136, M138 M138,S230 ≥60% in A231, ≥60% in MTHEL 131, S230 A231, M235, M237 Coreq S330 ≥60% in A232	FWS FWS FWS FWS FWS FWS FWS FWS FWS	FM LTAM IFM, VEE-AF STAM	FM	First offering is Winter 2021
.4 MA .5 ST .6 A .7 AMAT .8 ST .9 A 20 A 21 A 22 A 23 A 24 A 25 A 26 A 27 ENGL 28 A 30 A 31 A 32 A 33 A 34 1 Addit A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A<	ACTSC 231 TH 250/251/350 TAT 231/241 ACTSC 232 ACTSC 232 ACTSC 372 ACTSC 363 ACTSC 331	2A 2A 2A 2 2B 2B 2/3 3A 3A 3A 3A 3A	Calculus 3 Probability Introductory Financial Mathematics Intro to Differential Equations Statistics Life Contingencies 1 Investment Science and Corporate Finance Casualty and Health Insurance Mathematics 1 Life Contingencies 2 Introduction to Computational Mathematics	M136, ≥ 60% M138 M. 137 >80% or M138 M137, level 2A, Coreq S230 M136, M138 M138,S230 ≥60% in A231, ≥60% in MTHEL 131, S230 A231, M235, M237 Coreq S330 ≥60% in A232	FWS FWS FWS FWS FWS FWS FWS FWS	FM LTAM IFM, VEE-AF STAM	FM	First offering is Winter 2021
.5 ST .6 A .7 AMAT .8 ST .9 A .9 A .20 A .21 A .22 A .23 A .24 A .25 A .26 A .27 ENGL .28 A .29 A .30 A .31 A .32 A .33 A .34 1 Addit .4 A .4 1 Addit .4 A	ACTSC 231 TH 250/251/350 TAT 231/241 ACTSC 232 ACTSC 372 ACTSC 363 ACTSC 331	2A 2A 2 2B 2B 2/3 3A 3A 3A 3A	Probability Introductory Financial Mathematics Intro to Differential Equations Statistics Life Contingencies 1 Investment Science and Corporate Finance Casualty and Health Insurance Mathematics 1 Life Contingencies 2 Introduction to Computational Mathematics	M. 137 >80% or M138 M137, level 2A, Coreq S230 M136, M138 M138,S230 ≥60% in A231, ≥60% in MTHEL 131, S230 A231, M235, M237 Coreq S330 ≥60% in A232 CS Core II, M 235/245, M237/247	FWS FWS FWS FWS FWS FWS FWS	FM LTAM IFM, VEE-AF STAM	FM	First offering is Winter 2021
.6 A .7 AMAT .8 ST .9 A .9 A .9 A .21 A .22 A .23 A .24 A .25 A .26 A .27 ENGL 3 .28 A .29 A .30 A .31 A .32 A .33 A .34 1 Addit .4 A .4 A .4 A .4 A	ACTSC 231 TH 250/251/350 STAT 231/241 ACTSC 232 ACTSC 372 ACTSC 363 ACTSC 331	2A 2 2B 2B 2/3 3A 3A 3A 3A 3A	Introductory Financial Mathematics Intro to Differential Equations Statistics Life Contingencies 1 Investment Science and Corporate Finance Casualty and Health Insurance Mathematics 1 Life Contingencies 2 Introduction to Computational Mathematics	M137, level 2A, Coreq S230 M136, M138 M138,S230 ≥60% in A231, ≥60% in MTHEL 131, S230 A231, M235, M237 Coreq S330 ≥60% in A232 CS Core II, M 235/245, M237/247	FWS FWS FWS FWS FWS FW (S-?) FWS	FM LTAM IFM, VEE-AF STAM	FM	First offering is Winter 2021
.7 AMAT .8 ST .9 A 20 A 21 A 22 A 23 A 24 A 25 A 26 A 27 ENGL 28 A 30 A 31 A 32 A 33 A 34 1 Addit A A A A A A A A	TH 250/251/350 STAT 231/241 ACTSC 232 ACTSC 372 ACTSC 363 ACTSC 331	2 2B 2B 2/3 3A 3A 3A 3A	Intro to Differential Equations Statistics Life Contingencies 1 Investment Science and Corporate Finance Casualty and Health Insurance Mathematics 1 Life Contingencies 2 Introduction to Computational Mathematics	M136, M138 M138,S230 ≥60% in A231, ≥60% in MTHEL 131, S230 A231, M235, M237 Coreq S330 ≥60% in A232 CS Core II, M 235/245, M237/247	FWS FWS FWS FW (S-?) FWS	LTAM IFM, VEE-AF STAM		First offering is Winter 2021
.8 ST .9 A 20 A 21 A 22 A 23 A 24 A 25 A 26 A 27 ENGL 28 A 30 A 31 A 32 A 33 A 34 1 Addit A A A A A A A A A A	ACTSC 232 ACTSC 372 ACTSC 363 ACTSC 331	2B 2B 2/3 3A 3A 3A 3A	Statistics Life Contingencies 1 Investment Science and Corporate Finance Casualty and Health Insurance Mathematics 1 Life Contingencies 2 Introduction to Computational Mathematics	M138,S230 ≥60% in A231, ≥60% in MTHEL 131, S230 A231, M235, M237 Coreq S330 ≥60% in A232 CS Core II, M 235/245, M237/247	FWS FWS FW (S-?) FWS	IFM, VEE-AF STAM	IFM, VEE-AF	First offering is Winter 2021
.9 A 20 A 21 A 22 A 23 A 23 A 23 A 24 A 25 A 26 A 27 ENGL 28 A 30 A 31 A 32 A 33 A 34 1 Addit A A A A A A A A	ACTSC 232 ACTSC 372 ACTSC 363 ACTSC 331	2B 2/3 3A 3A 3A 3	Life Contingencies 1 Investment Science and Corporate Finance Casualty and Health Insurance Mathematics 1 Life Contingencies 2 Introduction to Computational Mathematics	≥60% in A231, ≥60% in MTHEL 131, S230 A231, M235, M237 Coreq S330 ≥60% in A232 CS Core II, M 235/245, M237/247	FWS FWS FW (S-?) FWS	IFM, VEE-AF STAM	IFM, VEE-AF	First offering is Winter 2021
20 A 21 A 22 A 23 A 23 A 23 A 23 A 24 A 25 A 26 A 27 ENGL 28 A 30 A 31 A 32 A 33 A 34 1 Addit A A A A A A A A A A	ACTSC 372 ACTSC 363 ACTSC 331	2/3 3A 3A 3	Investment Science and Corporate Finance Casualty and Health Insurance Mathematics 1 Life Contingencies 2 Introduction to Computational Mathematics	A231, M235, M237 Coreq S330 ≥60% in A232 CS Core II, M 235/245, M237/247	FWS FW (S-?) FWS	IFM, VEE-AF STAM	IFM, VEE-AF	First offering is Winter 2021
21 A 22 A 23 A 23 A 24 A 25 A 26 A 27 ENGL 28 A 29 A 30 A 31 A 32 A 33 A 34 1 Addit A A A A A A A A A A A A	ACTSC 363 ACTSC 331	3A 3A 3	Casualty and Health Insurance Mathematics 1 Life Contingencies 2 Introduction to Computational Mathematics	Coreq S330 ≥60% in A232 CS Core II, M 235/245, M237/247	FW (S-?) FWS	STAM	IFM, VEE-AF	First offering is Winter 2021
22 A 23 A 23 A 24 A 25 A 26 A 27 ENGL 3 28 A 30 A 31 A 32 A 33 A 34 1 Addit A A A A A A A A	ACTSC 331	3A 3	Life Contingencies 2 Introduction to Computational Mathematics	≥60% in A232 CS Core II, M 235/245, M237/247	FWS			prise onemig is winter 2021
23 AMAT 24 AMAT 25 A 26 A 27 ENGL 28 A 30 A 31 A 32 A 33 A 34 1 Addit A A A A A A A A A A A A A A A A A A A A A A		3	Introduction to Computational Mathematics	CS Core II, M 235/245, M237/247		LIAM		
AMAT AMAT AMAT A A A A A A A A A A A A A	One of:							
24 25 26 27 ENGL 2 28 29 A 30 A 31 A 32 33 A CTS								
25 26 27 ENGL 28 29 A 30 A 31 A 32 A 33 A 34 1 Addit A A A A A A A A A A A A A A A A A A A A	ATH 242/CS 371	-	Numerical Computation	IN 196 M190 (and of CC 991 994 941 or	WS			
25 26 27 ENGL 28 29 A 30 A 31 A 32 A 33 A 34 1 Addit A A A A A A A A A A A A A A A A A A A A	CS 370	3		M 136, M138, (one of CS 231, 234, 241, or 246)	FWS			
27 ENGL 3 28 29 30 A 31 A 32 33 33 ACTSO 34 1 Addit A A A A A A A A A A A A A A A A A A A A A A	STAT 330	3	Mathematical Statistics	M237, ≥60% in S230,S231	FWS	VEE-MS		
27 ENGL 3 28 29 A 30 A 31 A 32 33 A 33 A 4 1 Addit 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A	STAT 331	3	Applied Linear Models	M235, ≥60% in S231	FWS	SRM, PA	MAS-I	
28 4 29 A 30 A 31 A 32 A 33 A 34 1 Addit 34 1 Addit A A A A	STAT 333	3	Stochastic Processes 1	≥60% in S230/240, M237/247	FWS		MAS-I	
28 4 29 A 30 A 31 A 32 A 33 A 34 1 Addit 34 1 Addit A A A A			Professional Communications in Statistics and	(A331 or S331),≥70% in EMLS 101R, 102R, EMLS/ENGL 129R, ENGL 109,				
29 A 30 A 31 A 32 33 33 ACTSO 34 1 Addit 34 1 Addit A A A A A A A A A A A A A A A A	_ 378/MTHEL 300	,	Actuarial Science	SPCOM 100, 223	FWS	PA		
30 A 31 A 32 33 33 ACTSO 34 1 Addit 34 1 Addit A A A A A A A A	STAT 340	3/4	Stochastic Simulation Methods	≥60% in S230, S231,CS Core II	WS			STAT 341 is NOT accepted
31 A 32	ACTSC 431	4	Casualty and Health Insurance Mathematics 2	≥60% in A363, S330	FS	STAM		First offering is Spring 2021
32 33 ACTS 34 1 Addit A A A A A	ACTSC 445	4	Quantitative Enterprise Risk Management	A372, (S330 and 333 or 334)	FS			
32 33 ACTS 34 1 Addit A A A A A	ACTSC 446	4	Mathematics of Financial Markets	A372, (S333 or 334)	FW	IFM	IFM	
33 ACTS ACTS 34 1 Addit A A A A A				00.070 AMATH 000/00.074, 0004	1 00	1111	1111	
ACTS ACTS 34 1 Addit A A A A A	CS 476	4	Numerical Computation for Financial Modeling	CS 370 or AMATH 232/CS 371, S231	W			
34 1 Addit A A A A A A	One of:							
34 1 Addit A A A A A	SC 471/AFM 476	4	Advanced Corporate Finance	A372	W			
۹ ۹ ۹ ۹	AFM 424	3/4	Equity Investments	A372	FW			
۹ ۹ ۹ ۹								
م م م	litional 400 level	ACTSC co	urse; currently available courses include: (if AC	TSC 471/AFM 476 is taken then th	is is comple	 te)		
А А	ACTSC 432	4	Property & Casualty Insurance: Pricing	A363, S330, S331/371	FS	STAM	MAS-II	
А А	ACTSC 453	4	Basic Pension Mathematics	A331	W (odd			
A	ACTSC 453 ACTSC 454	4	Longevity and Mortality using Predictive Analytics	A331 A331, S330	years) W	LTAM		Formerly ACTSC 433
								,
		4	Life Contingencies 3	≥60% in A331, co-req A446	W W (not	LTAM		
F	ACTSC 455	4	Intro to Property & Casualty Loss Reserving	A363, S331/371	certain)	STAM	Exam 5	
	ACTSC 455 ACTSC 463							
		om list be	low: (+1 if AFM 424 is taken)					
Any	ACTSC 463	1	see list above		varies			
	ACTSC 463	3/4	Equity Investments	A372	FW			
	ACTSC 463 litional courses fro y 300-400 level	3/4 3/4	Forecasting	S331	FWS		MAS-I	
_	ACTSC 463 litional courses fro y 300-400 level ACTSC		Stochastic Processes	S333	F			
	ACTSC 463 litional courses fro y 300-400 level ACTSC AFM 424	3/4		S341; S331	FW	PA	MAS-II	
_	ACTSC 463 litional courses fro y 300-400 level ACTSC AFM 424 STAT 443	3/4 3/4	Statistical Learning - Classificaiton	S330, (S331 or S371)	FWS	SRM	MAS-I	
	ACTSC 463 litional courses fro y 300-400 level ACTSC AFM 424 STAT 443 STAT 433	3/4 3/4 4						
	ACTSC 463 litional courses fro y 300-400 level ACTSC AFM 424 STAT 443 STAT 443 STAT 433 STAT 441	3/4 3/4 4 4	Statistical Learning - Classificaiton					
+ 5 Addit	ACTSC 463 litional courses fro y 300-400 level ACTSC AFM 424 STAT 443 STAT 443 STAT 433 STAT 441	3/4 3/4 4 4	Statistical Learning - Classificaiton				ulty)	
	ACTSC 463 litional courses fro y 300-400 level ACTSC AFM 424 STAT 443 STAT 443 STAT 441 STAT 441 STAT 431	3/4 3/4 4 4 4	Statistical Learning - Classificaiton		least 2 outsi	de of the Math Facu		
Stude	ACTSC 463 litional courses fro y 300-400 level ACTSC AFM 424 STAT 443 STAT 443 STAT 441 STAT 441 STAT 431	3/4 3/4 4 4 4	Statistical Learning - Classificaiton Generalized Linear Models		least 2 outsi	de of the Math Faci		<u> </u>
	ACTSC 463 litional courses fro y 300-400 level ACTSC AFM 424 STAT 443 STAT 443 STAT 441 STAT 441 STAT 431	3/4 3/4 4 4 4 which at	Statistical Learning - Classificaiton Generalized Linear Models	ever, if AFM 424 is taken, then at l		de of the Math Facu		

*If ACTSC 471/AFM 476 is taken then it can only be used to satisfy #33 and one of the 4xx additional ACTSC courses. It cannot be triple counted and also used towards the 3xx/4xx ACTSC additional list.

Updated on:

SOA and CAS exam mappings indicate that the course covers some topics on the exam's syllabus and are intended to be used as a guideline, not as a direct mapping.

9/7/2022

The entire CAS MAS-II syllabus cannot be directly mapped to the program's courses. In addition to the courses indicated above, students preparing for this exam may also consider taking STAT 430, STAT 441, STAT 442, STAT 450 and STAT 440.

For CIA Accreditation information: https://uwaterloo.ca/statistics-and-actuarial-science/current-undergraduate-students/canadian-institute-actuaries-cia-accreditation-society