

Bachelor of Actuarial Studies / Computer Science 3674

Progression Plan for 2025 Commencing Students

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Program and Course Terminology

Please refer to the 2025 Handbook for the program and major rules: <https://www.handbook.unsw.edu.au/undergraduate/programs/2025/3674>

Terminology	Definition
Program compulsory core courses	60UOC of compulsory core courses which students must complete under this degree.
Level 2 Actuarial Studies Core Courses	Students must complete 30 UOC (5 courses) of Level 2/3 Actuarial Studies Core Courses. Students may replace ACTL2131 with the two courses MATH2901 Higher Theory of Statistics and MATH2931 Higher Linear Models. If students make this replacement, MATH2901 will count towards ACTL2131, and MATH2931 will be counted towards a major where this course is required or as a free elective.
Level 3 Actuarial Studies Elective Courses	Students must complete 18UOC (3 courses) of Actuarial Studies Level 3 Core Courses.
UNSW Business School Elective	12UOC in UNSW Business School courses to ensure a student completes a minimum of 96UOC of Business courses within the UNSW Business School. GEN courses cannot count as Business School Electives.
Optional Actuarial Studies Majors	Students who wish to complete an optional Actuarial Studies major (ACTLE1, MATHE1) WILL be required to complete additional UOC (Exceed 96UOC). If students do not complete an optional Actuarial Studies major, students will complete program with a default major by completing program requirements.

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Table A. Default Actuarial Studies Major

Level 1 Actuarial Studies Core Courses		Level 2/3 Actuarial Studies Core Courses		Level 3 Actuarial Studies Elective Courses (Choose 3 courses)		UNSW Business School Electives	
(36UOC)		(30UOC)		(18UOC)		(12UOC)	
ACTL1101	<input type="checkbox"/>	ACTL2102	<input type="checkbox"/>	ACTL3141	<input type="checkbox"/>		<input type="checkbox"/>
COMM1140	<input type="checkbox"/>	ACTL2111	<input type="checkbox"/>	ACTL3143	<input type="checkbox"/>		<input type="checkbox"/>
COMM1170	<input type="checkbox"/>	ACTL2131*	<input type="checkbox"/>	ACTL3151	<input type="checkbox"/>		
COMM1180	<input type="checkbox"/>	COMM2501	<input type="checkbox"/>	ACTL3162	<input type="checkbox"/>		
ECON1101	<input type="checkbox"/>	ACTL3142	<input type="checkbox"/>	ACTL3182	<input type="checkbox"/>		
ECON1102	<input type="checkbox"/>			ACTL3191	<input type="checkbox"/>		
MATH1151				ACTL3192	<input type="checkbox"/>		
MATH1251				ACTL3301	<input type="checkbox"/>		

**Students may replace ACTL2131 with the two courses MATH2901 Higher Theory of Statistics and MATH2931 Higher Linear Models. If students make this replacement, MATH2901 will count towards ACTL2131, and MATH2931 will be counted towards a major where this course is required or as a free elective.*

MATH1151 and MATH1251 are compulsory courses that count towards the Computer Science component. Student will need to take 12UOC of Business School electives to meet minimum of 96UOC Business School courses for the Actuarial Studies requirement

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Table B1. Optional Actuarial Studies major: **Actuarial Risk Management and Analytics (ACTLE1)** (48 UOC)

Level 1 Actuarial Studies Core Courses		Level 2/3 Actuarial Studies Core Courses		Level 3 Actuarial Studies Core Courses <i>(Choose 3 courses from this list (NOT ACTL3151 / ACTL3143) to meet major and level 3 Actuarial Studies core course requirements)</i>		Actuarial Risk Management and Analytics (ACTLE1)	
(36UOC)		(30 UOC)		(18 UOC)		(24UOC)	
ACTL1101	<input type="checkbox"/>	ACTL2102	<input type="checkbox"/>	ACTL3141	<input type="checkbox"/>	RISK2001	<input type="checkbox"/>
COMM1140	<input type="checkbox"/>	ACTL2111	<input type="checkbox"/>	ACTL3143 X		ACTLE1 Elective	<input type="checkbox"/>
COMM1170	<input type="checkbox"/>	ACTL2131*	<input type="checkbox"/>	ACTL3151 X		ACTLE1 Elective <i>Additional UOC</i>	<input type="checkbox"/>
COMM1180	<input type="checkbox"/>	COMM2501	<input type="checkbox"/>	ACTL3162	<input type="checkbox"/>	ACTLE1 Elective <i>Additional UOC</i>	<input type="checkbox"/>
ECON1101	<input type="checkbox"/>	ACTL3142	<input type="checkbox"/>	ACTL3182	<input type="checkbox"/>		
ECON1102	<input type="checkbox"/>			ACTL3191	<input type="checkbox"/>		
MATH1151				ACTL3192	<input type="checkbox"/>		
MATH1251				ACTL3301	<input type="checkbox"/>		

*Students may replace ACTL2131 with the two courses MATH2901 Higher Theory of Statistics and MATH2931 Higher Linear Models. If students make this replacement, MATH2901 will count towards ACTL2131, and MATH2931 will be counted towards a major where this course is required or as a free elective.
 X Note: ACTL3151 and ACTL3143 are not Actuarial Risk Management and Analytics major electives
MATH1151 and MATH1251 are compulsory courses that count towards the Computer Science component. Student will need to take 12UOC of Business School electives to meet minimum of 96UOC Business School courses for the Actuarial Studies requirement

Note: Student will take **12 additional UOC** to compete major requirement

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Table B2. Optional Actuarial Studies major: **Quantitative Data Science (MATHE1)** (66 UOC)

Level 1 Actuarial Studies Core Courses		Level 2/3 Actuarial Studies Core Courses		Level 3 Actuarial Studies Elective Courses <i>(Choose ACTL3141 and 2 more courses from this list)</i>		Quantitative Data Science (MATHE1)	
(36UOC)		(30UOC)		(18UOC)		(30UOC)	
ACTL1101	<input type="checkbox"/>	ACTL2102	<input type="checkbox"/>	ACTL3141	<input type="checkbox"/>	MATH2931 <i>(in place of MATH2831)</i>	<input type="checkbox"/>
COMM1140	<input type="checkbox"/>	ACTL2111	<input type="checkbox"/>	ACTL3143	<input type="checkbox"/>	MATH2871	<input type="checkbox"/>
COMM1170	<input type="checkbox"/>	ACTL2131* MATH2901	<input type="checkbox"/>	ACTL3151	<input type="checkbox"/>	MATHE1 Elective <i>Additional UOC</i>	<input type="checkbox"/>
COMM1180	<input type="checkbox"/>	COMM2501	<input type="checkbox"/>	ACTL3162	<input type="checkbox"/>	MATH3821 <i>Additional UOC</i>	<input type="checkbox"/>
ECON1101	<input type="checkbox"/>	ACTL3142	<input type="checkbox"/>	ACTL3182	<input type="checkbox"/>	MATH3871 <i>Additional UOC</i>	<input type="checkbox"/>
ECON1102	<input type="checkbox"/>			ACTL3191	<input type="checkbox"/>		
MATH1151				ACTL3192	<input type="checkbox"/>		
MATH1251				ACTL3301	<input type="checkbox"/>		

*Students may replace ACTL2131 with the two courses MATH2901 Higher Theory of Statistics and MATH2931 Higher Linear Models. If students make this replacement, MATH2901 will count towards ACTL2131, and MATH2931 will be counted towards a major where this course is required or as a free elective.
MATH1151 and MATH1251 are compulsory courses that count towards the Computer Science component. Student will need to take 12UOC of Business School electives to meet minimum of 96UOC Business School courses for the Actuarial Studies requirement

Note: Student will take **18 additional UOC** to complete major requirement

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STUDENTS NEEDS TO CHECK THE ACTUARIES INSTITUTE AND [THE BUSINESS SCHOOL WEBPAGE](#) FOR ANY UPDATES ON EXEMPTION REQUIREMENTS

Please refer to the 2025 Handbook for the program and major rules: <https://www.handbook.unsw.edu.au/undergraduate/programs/2025/3674>

Example: Actuarial Studies major (Default) and meet the Actuaries Institute Foundation Program^ and Actuary Program# requirements

Level 1 Actuarial Studies Core Courses		Level 2/3 Actuarial Studies Core Courses		Level 3 Actuarial Studies Elective Courses		UNSW Business School Electives	
(36UOC)		(30UOC)		(18UOC)		(12UOC)	
ACTL1101	<input type="checkbox"/>	ACTL2102^	<input type="checkbox"/>	ACTL3141^	<input type="checkbox"/>	ACTL3301^	<input type="checkbox"/>
COMM1140^	<input type="checkbox"/>	ACTL2111^	<input type="checkbox"/>	ACTL3151^	<input type="checkbox"/>	ACTL3182^	<input type="checkbox"/>
COMM1170^	<input type="checkbox"/>	ACTL2131*^	<input type="checkbox"/>	ACTL3162^	<input type="checkbox"/>	ACTL4001# <i>Additional UOC</i>	<input type="checkbox"/>
COMM1180^	<input type="checkbox"/>	COMM2501	<input type="checkbox"/>			ACTL4002# <i>Additional UOC</i>	<input type="checkbox"/>
ECON1101^	<input type="checkbox"/>	ACTL3142^	<input type="checkbox"/>			ACTL4305# <i>Additional UOC</i>	<input type="checkbox"/>
ECON1102^	<input type="checkbox"/>						
MATH1151							
MATH1251							

*Students may replace ACTL2131 with the two courses MATH2901 Higher Theory of Statistics and MATH2931 Higher Linear Models. If students make this replacement, MATH2901 will count towards ACTL2131, and MATH2931 will be counted towards a major where this course is required or as a free elective. MATH2901 will meet exemption requirements.

MATH1151 and MATH1251 are compulsory courses that count towards the Computer Science component. Student will need to take 12UOC of Business School electives to meet minimum of 96UOC Business School courses for the Actuarial Studies requirement

Note: Student will take **18 additional UOC** to complete exemption requirements

First Year Recommended Enrolment Plan

PLEASE USE THIS RECOMMENDATION AS REFERENCE ONLY – Plan may not be suitable for your chosen major(s) / minor requirement OR due to changed offering terms

Commencing in T1		
T1 Enrolment	T2 Enrolment	T3 Enrolment
COMM1140	ACTL1101	COMM1170
COMP1511	ECON1101	COMP1521/COMP1531/COMP2521
MATH1151	MATH1251	

Commencing in T2		
T2 Enrolment	T3 Enrolment	T1 Enrolment
COMM1140	COMM1170	COMM1180
COMP1511	COMP1521/COMP1531/COMP2521	ECON1102
	ECON1101	MATH1151

Commencing in T3		
T3 Enrolment	T1 Enrolment	T2 Enrolment
COMM1140	COMM1170	ACTL1101
COMP1511	COMP1521/COMP1531/COMP2521	COMM1180
ECON1101	MATH1151	MATH1251

Note: For Computer Science component study, you may refer to the [study plan](#) for reference, or contact [Engineering Student Services](#)

Level 1 and Level 2 Computer Science core courses are offered in all standard terms. You may take courses from Faculty of Business first if COMP1511 or any other Computer Science course is full.