

# Bachelor of Actuarial Studies/ Advanced Maths (Hons) 3589

## Progression Plan for 2021 Commencing Students

| Terminology                                | Definition                                                                                                                                                                                                    |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Program compulsory core courses</b>     | 54UOC of compulsory core courses which students must complete under this degree.                                                                                                                              |
| <b>Actuarial Studies Level 3 electives</b> | Choose 24UOC of Level 3 elective course from Actuarial Studies elective list.                                                                                                                                 |
| <b>UNSW Business School Elective</b>       | 18UOC in UNSW Business School courses to ensure a student completes a minimum of 96 UOC of Business courses within the Bachelor of Commerce. The exact number of courses to complete will depend on ACTL2131. |

**Please refer to the 2021 Online Handbook for the program and major rules:**  
<https://www.handbook.unsw.edu.au/undergraduate/programs/2021/3589>

**Table A. Actuarial Studies major (default); Advanced Maths (Hons) major:** \_\_\_\_\_

| Compulsory Level 1 core courses |      | Compulsory Level 2 core courses |      | Actuarial studies Level 3 elective courses<br>(choose 4) |      | UNSW Business School electives |      |
|---------------------------------|------|---------------------------------|------|----------------------------------------------------------|------|--------------------------------|------|
| (36UOC)                         | Term | (18UOC)                         | Term | (24UOC)                                                  | Term | (18UOC)                        | Term |
| COMM1140                        |      | ACTL2111                        |      | 1. ACTL3141                                              |      | 1.                             |      |
| COMM1170                        |      | ACTL2131 *                      |      | 2. ACTL3142                                              |      | 2.                             |      |
| COMM1180                        |      | ACTL2102                        |      | 3. ACTL3151                                              |      | 3.                             |      |
| ACTL1101                        |      |                                 |      | 4. ACTL3162                                              |      |                                |      |
| ECON1101                        |      |                                 |      | 5. ACTL3182                                              |      |                                |      |
| ECON1102                        |      |                                 |      | 6. ACTL3191                                              |      |                                |      |
| MATH1151^                       |      |                                 |      | 7. ACTL3192                                              |      |                                |      |
| MATH1251^                       |      |                                 |      |                                                          |      |                                |      |
| Total number of completed UOC:  |      |                                 |      |                                                          |      |                                |      |

^ MATH1151 & MATH1251 are compulsory core courses that count towards the Advanced Maths (Hons) component, therefore need to complete another 18uoc of UNSW Business School electives to satisfy the 96uoc depth component.

\*Students may replace ACTL2131 with the two courses MATH2901 Higher Theory of Statistics and MATH2931 Higher Linear Models. If students make this replacement, the first of these courses (i.e. MATH2901) will count towards ACTL2131, and the second course (MATH2931) can be counted towards another major where this course is required or as a Business elective. If you are studying Actuarial Studies/Science or Actuarial Studies/Advanced Maths (Hons), and wish to count MATH2901 and MATH2931 toward Science or Advance Maths (Hons) degree, you should study more Business elective courses to achieve 96UOC completed in Business School Courses.

Program Checklist:

- ☐ I have completed a minimum of 96UOC (16 courses) for the Actuarial Studies component
- ☐ I have completed no more than 60UOC of level one courses in this dual degree
- ☐ I have consulted with the Faculty of Science for the Advanced Maths (Hons) component of my program

**PLEASE USE THIS DIAGRAM AS REFERENCE ONLY. IT DOES NOT REPLACE THE HANDBOOK AS GUIDE FOR PROGRAM REQUIREMENTS.**

**Table B. Actuarial Risk Management & Analytics major (48UOC); Advanced Maths (Hons) major:** \_\_\_\_\_

| Compulsory Level 1 core courses                                                                                                     |      | Compulsory Level 2 core courses |      | Actuarial studies Level 3 elective courses (choose ACTL3142 and three more from below) |      | UNSW Business School electives |      |
|-------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------|------|----------------------------------------------------------------------------------------|------|--------------------------------|------|
| (36UOC)                                                                                                                             | Term | (18UOC)                         | Term | (18UOC)                                                                                | Term | (18UOC)                        | Term |
| COMM1140                                                                                                                            |      | ACTL2111                        |      | 1. ACTL3141                                                                            |      | 1. RISK2001                    |      |
| COMM1170                                                                                                                            |      | ACTL2131 *                      |      | 2. ACTL3142                                                                            |      | 2. ACTL/RISK                   |      |
| COMM1180                                                                                                                            |      | ACTL2102                        |      | 3. ACTL3151                                                                            |      | 3. ACTL/RISK                   |      |
| ACTL1101                                                                                                                            |      |                                 |      | 4. ACTL3162                                                                            |      | ACTL/RISK                      |      |
| ECON1101                                                                                                                            |      |                                 |      | 5. ACTL3182                                                                            |      |                                |      |
| ECON1102                                                                                                                            |      |                                 |      | 6. ACTL3191                                                                            |      |                                |      |
| MATH1151^                                                                                                                           |      |                                 |      | 7. ACTL3192                                                                            |      |                                |      |
| MATH1251^                                                                                                                           |      |                                 |      |                                                                                        |      |                                |      |
|                                                                                                                                     |      |                                 |      |                                                                                        |      |                                |      |
| <b>Note: students with this major will need to complete an additional 6uoc on top of their minimum UOC requirements to graduate</b> |      |                                 |      |                                                                                        |      |                                |      |

Please note that ACTL3151 and ACTL3162 are not Actuarial Risk Management & Analytics major courses.

^ MATH1151 & MATH1251 are compulsory core courses that count towards the Advanced Maths (Hons) component, therefore need to complete another 18uoc of UNSW Business School electives to satisfy the 96uoc depth component.

\*Students may replace ACTL2131 with the two courses MATH2901 Higher Theory of Statistics and MATH2931 Higher Linear Models. If students make this replacement, the first of these courses (i.e. MATH2901) will count towards ACTL2131, and the second course (MATH2931) can be counted towards another major where this course is required or as a Business elective. If you are studying Actuarial Studies/Science or Actuarial Studies/Advanced Maths (Hons), and wish to count MATH2901 and MATH2931 toward Science or Advance Maths (Hons) degree, you should study more Business elective courses to achieve 96UOC completed in Business School Courses.

Program Checklist:

- ☐ I have completed a minimum of 96UOC (16 courses) for the Actuarial Studies component
- ☐ I have completed no more than 60UOC of level one courses in this dual degree
- ☐ I have consulted with the Faculty of Science for the Advanced Maths (Hons) component of my program

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**Table C. Quantitative Data Science major (66UOC); Advanced Maths (Hons) major: \_\_\_\_\_**

| Compulsory Level 1 core courses |      | Compulsory Level 2 core courses |      | Actuarial studies Level 3 elective courses<br>(choose 4) |      | UNSW Business School electives |      |
|---------------------------------|------|---------------------------------|------|----------------------------------------------------------|------|--------------------------------|------|
| (36UOC)                         | Term | (18UOC)                         | Term | (18UOC)                                                  | Term | (18UOC)                        | Term |
| COMM1140                        |      | ACTL2111                        |      | 1. ACTL3141                                              |      | 1. MATH2831/MATH2931 **        |      |
| COMM1170                        |      | ACTL2131 *                      |      | 2. ACTL3142                                              |      | 2. MATH2871                    |      |
| COMM1180                        |      | ACTL2102                        |      | 3. ACTL3151                                              |      | 3. MATH2801/MATH2901           |      |
| ACTL1101                        |      |                                 |      | 4. ACTL3162                                              |      | MATH3821                       |      |
| ECON1101                        |      |                                 |      | 5. ACTL3182                                              |      | MATH3871                       |      |
| ECON1102                        |      |                                 |      | 6. ACTL3191                                              |      | Major elective                 |      |
| MATH1151                        |      |                                 |      | 7. ACTL3192                                              |      |                                |      |
| MATH1251                        |      |                                 |      |                                                          |      |                                |      |
|                                 |      |                                 |      |                                                          |      |                                |      |

**Note: students with this major might need to complete an additional 18uoc on top of their minimum UOC requirements to graduate**

^ MATH1151 & MATH1251 are compulsory core courses that count towards the Advanced Maths (Hons) component, therefore need to complete another 12uoc of UNSW Business School electives to satisfy the 96uoc depth component.

\*Students may replace ACTL2131 with the two courses MATH2901 Higher Theory of Statistics and MATH2931 Higher Linear Models. If students make this replacement, the first of these courses (i.e. MATH2901) will count towards ACTL2131, and the second course (MATH2931) can be counted towards another major where this course is required or as a Business elective. If you are studying Actuarial Studies/Science or Actuarial Studies/Advanced Maths (Hons), and wish to count MATH2901 and MATH2931 toward Science or Advance Maths (Hons) degree, you should study more Business elective courses to achieve 96UOC completed in Business School Courses.

\*\*If any MATH course in QDS major is overlapping with Adv Maths component study and you would count it toward Adv.Math, you shall study a QDS major elective course as a replacement in Actuarial Studies.

Program Checklist:

- ☐ I have completed a minimum of 96UOC (16 courses) for the Actuarial Studies component
- ☐ I have completed no more than 60UOC of level one courses in this dual degree
- ☐ I have consulted with the Faculty of Science for the Advanced Maths (Hons) component of my program

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**Example: Bachelor of Actuarial Studies; meet the Actuaries Institute Foundation Program<sup>^</sup> and Actuary Program<sup>#</sup> requirements.**

| Compulsory Level 1 core courses |      | Compulsory Level 2 core courses |      | Actuarial studies Level 3 elective courses (choose 4) |      | UNSW Business School electives |      |
|---------------------------------|------|---------------------------------|------|-------------------------------------------------------|------|--------------------------------|------|
| (36UOC)                         | Term | (18UOC)                         | Term | (24UOC)                                               | Term | (18UOC)                        | Term |
| COMM1140 <sup>^</sup>           |      | ACTL2111 <sup>^</sup>           |      | 1. ACTL3141 <sup>^</sup>                              |      | 1. ACTL3182 <sup>^</sup>       |      |
| COMM1170 <sup>^</sup>           |      | ACTL2131 <sup>*^</sup>          |      | 2. ACTL3142 <sup>^</sup>                              |      | 2. ACTL3301 <sup>^</sup>       |      |
| COMM1180 <sup>^</sup>           |      | ACTL2102 <sup>^</sup>           |      | 3. ACTL3151 <sup>^</sup>                              |      | 3. ACTL4001#                   |      |
| ACTL1101                        |      |                                 |      | 4. ACTL3162 <sup>^</sup>                              |      | ACTL4002#                      |      |
| ECON1101 <sup>^</sup>           |      |                                 |      | 5. ACTL3182                                           |      | ACTL4305#                      |      |
| ECON1102 <sup>^</sup>           |      |                                 |      | 6. ACTL3191                                           |      | (Two additional courses)       |      |
| MATH1151 <sup>^</sup>           |      |                                 |      | 7. ACTL3192                                           |      |                                |      |
| MATH1251 <sup>^</sup>           |      |                                 |      |                                                       |      |                                |      |

*MATH1151 & MATH1251 are compulsory core courses that count towards the Advanced Math component however will meet exemption requirements*

*\*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 Business elective.*

*\*^ MATH2901 may replace ACTL2131 and meet exemption requirements*

Program Checklist:

- ☐ I have completed a minimum of 96UOC (16 courses) for the Actuarial Studies component
- ☐ I have completed no more than 60UOC of level one courses for this dual degree
- ☐ Exemption requirements: <https://www.business.unsw.edu.au/about/schools/risk-actuarial/degrees/professional-recognition/>
- ☐ I have consulted with the Faculty of Science for the Advanced Maths (Hons) component of my program

**PLEASE USE THIS DIAGRAM AS REFERENCE ONLY. IT DOES NOT REPLACE THE HANDBOOK AS GUIDE FOR PROGRAM REQUIREMENTS. IT IS RECOMMENDED STUDENTS TO CHECK THE ACTUARIES INSTITUTE WEBPAGE AND THE BUSINESS SCHOOL WEBPAGE FOR ANY UPDATES ON EXEMPTION REQUIREMENTS**

**First Year Enrolment Recommendation for Program 3589 Actuarial Studies/Advanced Maths (Hons) in Different Commencing Terms**

| Commencing in T1 |                 |                 |
|------------------|-----------------|-----------------|
| T1<br>Enrolment  | T2<br>Enrolment | T3<br>Enrolment |
| COMM1140         | ACTL1101        | ECON1101        |
| MATH1151         | MATH1251        | COMM1180        |
| SCIF1131         | COMM1170        |                 |

| Commencing in T2 |                 |                 |
|------------------|-----------------|-----------------|
| T2<br>Enrolment  | T3<br>Enrolment | T1<br>Enrolment |
| COMM1140         | COMM1170        | MATH1151        |
| ECON1101         | COMM1180        | MATH1081        |
|                  | SCIF1131        | ECON1102        |

| Commencing in T3 |                 |                 |
|------------------|-----------------|-----------------|
| T3<br>Enrolment  | T1<br>Enrolment | T2<br>Enrolment |
| COMM1140         | MATH1151        | ACTL1101        |
| ECON1101         | COMM1170        | MATH1251        |
| SCIF1131         | COMM1180        |                 |

*Note: For Advanced Maths component study, you may also refer to the program guide from Faculty of Science [here](#) or contact [Science Student Services](#).*

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