The information provided is designed to provide helpful information on your study plan. Changes to subject information after this time may affect your study plan. Please refer to the enrolment resources for up to date information.

# Bachelor of Advanced Science (Mathematics) – 2020 Beginning of Year Entry

| Teaching Period 1, 2020 | | Teaching Period 2, 2020 | |
|---|---|---|---|
| Study Period 1 | SC1101:03 Science, Technology and Truth | Study Period 2 | SC1109:03 Modelling Natural Systems-Advanced<br>**PREREQ: MA1000 or MA1009, allow concurrent enrolment for MA1009** |
| Study Period 1 | MA1000:03 Mathematical Foundations<br>**PREREQ: MA1020 or Mathematics B or Maths C** | Study Period 2 | MA1003:03 Mathematical Techniques<br>**PREREQ: MA1000 or MA1011 or MA1009** |
| Study Period 1 | **First Major Subject**<br>PH1005:03 Advanced Steam Physics 1<br>**PREREQ: Maths B or MA1020 or MA1000 or MA1008. Allow concurrent for MA1000 and MA1008** | Study Period 2 | **First Major Subject**<br>PH1007:03 Advanced Stream Physics 2<br>**PREREQ: ((Maths B or equivalent or MA1010) and PH1005) or (Physics and Maths C)** |
| Study Period 1 | Second Major Subject/Minor Subject/Elective Subject (depending on chosen structure) | Study Period 2 | Second Major Subject/Minor Subject/Elective Subject (depending on chosen structure) |
| **Teaching Period 1, 2021** | | **Teaching Period 2, 2021** | |
| Study Period 1 | SC2209:03 Quantitative Methods in Science-Advanced<br>**PREREQ: SC1109 and MA1003 plus6cp of other Level 1 subjects** | Study Period 2 | **First Major Subject**<br>MA2210:03 Linear Algebra<br>**PREREQ: MA1003**<br>**ASSUMED KNOWLEDGE: MA2000** |
| Study Period 1 | **First Major Subject**<br>MA2000:03 Mathematics for Scientists and Engineers<br>**PREREQ: MA1003** | Study Period 2 | Select 3 credit points of subjects from List 1 (Skill subjects) |
| Study Period 1 | **First Major Subject**<br>MA2211:03 Discrete Mathematics<br>**PREREQ: Maths B** | Study Period 2 | Second Major Subject/Minor Subject/Elective Subject (depending on chosen structure) |
| Study Period 1 | Second Major Subject/Minor Subject/Elective Subject (depending on chosen structure) | Study Period 2 | Second Major Subject/Minor Subject/Elective Subject (depending on chosen structure) |
| **Teaching Period 1, 2022** | | **Teaching Period 2, 2022** | |
| Study Period 1 | SC3003:03 Science Research Internship<br>**PREREQ: 15cp of AQ,BC,BZ,CH,EV,EA,MA,MB or PH Science Level 2 subjects**<br>**OR**<br>SC3008:03 Professional Placement<br>**PREREQ: students must has successfully completed 12 second year credit points and be enrolled in their final year of study within the College of Science and Engineering** | Study Period 2 | Select 3 credit points of subjects from List 2 (Advanced Skill Subjects) |
| Study Period 1 | **First Major Subject**<br>MA3211:03 Mathematical Modelling and Differential Equations<br>**PREREQ: MA2000 and MA2210** | Study Period 2 | **First Major Subject**<br>MA3210:03 Probability and Stochastic Processes<br>**PREREQ: MA2000 and MA2210** |
| Study Period 1 | Second Major Subject/Minor Subject/Elective Subject (depending on chosen structure) | Study Period 2 | **First Major Subject**<br>MA3212:03 Optimisation and Operations Research<br>**PREREQ: MA2000 and MA2210** |
| Study Period 1 | Second Major Subject/Minor Subject/Elective Subject (depending on chosen structure) | Study Period 2 | Second Major Subject/Minor Subject/Elective Subject (depending on chosen structure) |

## PROFESSIONAL ACCREDITATION STATUS

The Physics major for the Bachelor of Advanced Science will be seeking accreditation by the Australian Institute of Physics (AIP) in 2019. Once accredited, graduates will be automatically eligible for membership of the Australian Institute of Physics.

The Chemistry major for this course is accredited by the Royal Australian Chemical Institute (RACI). Graduates will be eligible for non-corporate membership of RACI and, with an additional three years' experience in chemistry, may be eligible to register as a Chartered Chemist with Corporate Membership of RACI.

## ADDITIONAL COURSE RULES

A maximum of 30 credit points may be taken at level 1.
A minimum of 18 credit points of science subjects must be taken at level 3 or higher.
Students may seek permission to enrol in more than one level 5 subject.

## COURSE PROGRESSION REQUISITES

Should successfully complete 18 credit points of level 2 science subjects before attempting any level 5 science subject.

## ADDITIONAL INFORMATION

Bachelor of Advanced Science course handbook
Mathematics major handbook