

Bachelor of Advanced Science (Physics) – 2020 Beginning of Year Entry

Advanced mathematics minor is compulsory for students studying a physics major

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 PREREQ: MA1000 or MA1009, allow concurrent enrolment for MA1009
Study Period 1	MA1000 :03 Mathematical Foundations PREREQ: MA1020 or Mathematics B or Maths C	Study Period 2	MA1003 :03 Mathematical Techniques PREREQ: MA1000 or MA1011 or MA1009
Study Period 1	First Major Subject PH1005 :03 Advanced Stream Physics 1 PREREQ: Maths B or MA1020 or MA1000 or MA1008. Allow concurrent for MA1000 and MA1008	Study Period 2	First Major Subject PH1007 :03 Advanced Stream Physics 2 PREREQ: ((Maths B or equivalent or MA1020) 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 PREREQ: SC1109 and MA1003 plus 6cp of other Level 1 subjects	Study Period 2	Select 3 credit points of subjects from List 1 (Skill subjects)
Study Period 1	First Major Subject PH2002 :03 Classical Mechanics and Quantum Physics 1 PREREQ: MA1003 and PH1005 and ((PH1006 or PH1007 or (EG1012 and EG1011))	Study Period 2	First Major Subject PH2240 :03 Atomic and Nuclear Physics PREREQ: PH2002 and MA1003
Study Period 1	First Major Subject PH2019 :03 Introduction to Electromagnetism Optics and Early Quantum PREREQ: (EG1012 or PH1005) and MA1003	Study Period 2	Advanced mathematics minor subject Select 3 credit points from List 1
Study Period 1	Advanced mathematics minor subject MA2000 :03 Maths for Scientists and Engineers PREREQ: MA1003	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 PREREQ: 15cp of AQ,BC,BZ,CH,EV,EA,MA,MB or PH Science Level 2 subjects OR SC3008:03 Professional Placement PREREQ: students must have 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 PH3008:03 Statistical Mechanics and Transport PREREQ: PH2019 and PH2002 and MA2000	Study Period 2	First Major Subject PH3002:03 Quantum Physics 2 PREREQ: MA2000 and PH2002
Study Period 1	First Major Subject PH3019:03 Electromagnetic Phenomena PREREQ: MA2000 and PH2019	Study Period 2	Advanced mathematics minor subject Select 3 credit points from List 1
Study Period 1	Advanced mathematics minor subject MA2211:03 Discrete Mathematics PREREQ: MA1020 or Mathematics B	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](#)
[Physics major handbook](#)