

# Bachelor of Science - BA-SC2

## Physics Major

### Recommended Sequence

Units are listed on your Course Planner in a recommended sequence. However this can be amended depending on unit availability, prerequisite requirements and the semester in which you commenced your course. Changes to this planner may extend the duration of your course.

### Year One

Semester 1		Semester 2	
MTH0007 Preliminary Mathematics or STA10003 Foundation Statistics or MTH10012 Calculus and Applications	+12.5	MTH00010 Essential Mathematics or MTH10012 Calculus and Applications or MTH10013 Linear Algebra	+12.5
CHE10001 Chemistry 1 or CHE10004 Introduction to Chemistry	+12.5	NPS10003 Sustainability Challenges in Science	+12.5
PHY10001 Energy and Motion or PHY10002 Introduction to Physics	+12.5	PHY10004 Electronics and Electromagnetism	+12.5
BIO10001 Concepts in Biology	+12.5	AST10001 Discovering the Universe	+12.5

### Year Two

Semester 1		Semester 2	
PHY20004 Modern Optics	+12.5	NPS20011 Societal Challenges in Science	+12.5
PHY20007 Physics 2A	+12.5	PHY20008 Physics 2B	+12.5
Elective	+12.5	PHY30005 Physics Research Laboratories	+12.5
Elective	+12.5	Elective	+12.5

### Optional

<b>Professional Placement</b> You can choose to add an additional 6 month or 1 year placement to your course. The maximum credit points to complete your course will be increased to accommodate the Professional Placement	+37.5- +100
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### Year Three

Semester 1		Semester 2	
NPS30004 Grand Challenges in Science	+12.5	PHY30004 Quantum and Optical Physics	+12.5
PHY30003 Thermal Physics and Statistical Mechanics	+12.5	Elective	+12.5
Elective	+12.5	Elective	+12.5
Elective	+12.5	Elective	+12.5

### How to use your course planner

The units in your planner are colour coded to assist you with mapping out your studies. Refer to the boxes below for an overview of your course requirements.

### Course Information

Course 300 Credit Points

**Core units**  
100 Credit points

A set of compulsory units you **MUST** complete as part of your Course.

**First Major units**  
100 Credit points

A set of compulsory units you **MUST** complete as part of your Course.

**Elective units**  
100 Credit points

A combination of elective units, or a Second Major, Co-Major, or a Minor.

**Work Integrated Learning**

A Professional Placement is a Work Integrated Learning (WIL) option. You can apply for a Professional Placement during your second year. More information on Professional Placement and other WIL options at [Work Integrated Learning](#)

### FAQs

**How can I find more information about my course**

Visit [Bachelor of Science](#) for major options.

**Where can I find out more about individual unit information?**

Visit the [Single Unit Search](#) page to search for additional unit content.

**What's a full-time study load?**

100 credit points (8 units per year)

**What's a part-time study load?**

50 credit points (4 units per year)

**How can I plan my timetable?**

Check the [University Timetable Planner](#) before enrolling into units.

