## Bachelor of Science

**PATHWAY B – 120 UNIT PHYSICS MAJOR – Standard Pathway**

### Commencing in Semester 2 2019

Studying at Callaghan and Central Coast

This Program Plan is an enrolment guide to ensure you are on track to graduate. If at any time you wish to vary from this program plan seek prior advice from your Program Advisor to ensure you remain on track.

### Program Plan Key:
- = Core
- = Major
- = Directed
- = Elective

**Elective Options include:** Science Elective Pathways or any unrestricted courses offered within the university.

**Students must successfully complete either MATH3820 or MATH3242 as part of their major requirements and complete an elective in the alternate semester.**

Information correct as of June 2019 and subject to change.

**Program Code:** 40165  
**CRICOS Code:** 098539K  
**CRICOS Provider:** 00109J

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<tr>
<th>Semester 1</th>
<th>Semester 2</th>
<th>Summer</th>
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<tr>
<td><strong>Year 1</strong></td>
<td><strong>Year 2</strong></td>
<td><strong>Year 3</strong></td>
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<tr>
<td>SCIE1001 Professional Scientific Thinking</td>
<td>SCIE1002 Multidisciplinary Laboratories</td>
<td>PHYS2111 Classical Physics 1</td>
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<tr>
<td>PHYS2211 Modern Physics I</td>
<td>PHYS2211 Interdisciplinary Challenges</td>
<td>MATH2310 Calculus of Science and Engineering</td>
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<td><strong>Year 3</strong></td>
<td><strong>Year 4</strong></td>
<td><strong>Elective</strong></td>
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<td>SCIE2001 Professional Employment Skills</td>
<td>PHYS3111 Biophysics</td>
<td>PHYS3112 Photonics</td>
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<tr>
<td>ELECTIVE**</td>
<td>ELECTIVE** 1000/2000/3000 level</td>
<td>PHYS3211 Quantum Information Science</td>
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<td>SCIE3001A Transdisciplinary Capstone: Planning and Implementing</td>
<td>MATH3242 ++</td>
<td>ELECTIVE** 1000/2000/3000 level</td>
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<tr>
<td>MATH3820 ++</td>
<td>ELECTIVE** 2000/3000 level</td>
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| **Elective Options include:** Science Elective Pathways or any unrestricted courses offered within the university.

**Students must successfully complete either MATH3820 or MATH3242 as part of their major requirements and complete an elective in the alternate semester.
To be eligible to graduate make sure you have completed 240 units (10 units = 1 course unless otherwise specified) which meet the following criteria:

- Core courses - 80 units (including 10 units of MATH directed).
- Major - 120 units (Students who complete either MATH1110 or MATH1210 as their Mathematics Directed course can also count this towards their major requirements).
- Electives - 50 units - Choose from Science Elective Pathways or any unrestricted courses offered within the university. Refer to the Science Elective Pathway documents located on the Program Handbook or visit the Course Handbook to see a list of available Electives.
- Students must complete a minimum of 40 units at all levels (1000, 2000, and 3000), and can complete a maximum of 100 units at 1000 level.
- The duration of this program is 3 years full time study (40 units per semester) or part time equivalent. Please Note: Completion in minimum duration for Semester 2 intake for some majors may not be possible, or may require enrolment in Winter Term prior to Semester 2 commencement. Please refer to the Program Requirements Section in the Program Handbook for further information.
- The maximum time to complete this program is 8 years.

Some courses have assumed knowledge and/or requisites, please refer to the individual Course Handbook.

The Program Handbook has valuable information on program structure and requirements, if you are intending on studying part time or varying from this program plan please seek prior advice from your Program Advisor.
## Helpful Hints & Tips

### Enrolment Help
- Need help? » Ask UON
- How do I use the Web Timetable? »

### Info for New Students
- First year undergraduate students usually only enrol in 1000 level courses »
- New Postgraduate students should only enrol in 6000 level courses »
- Find out all you need to know about getting started at uni »

### Understanding Courses & Programs
- Not sure what courses to study? »
- Understanding program and course jargon »
- Understanding UON Jargon »

### Prior Study
- Check you have met the assumed knowledge and requisites for courses before enrolling »
- Have you studied elsewhere or transferred programs? Don't forget to apply for credit »

### Considering a Break?
- Need to take a break? This is called a 'leave of absence'. Check if you are eligible »
- Planning on going overseas? Keep electives free, so it's easier for you to receive credit for your overseas studies »

### More Questions?
- We are here to answer questions about your program. Talk to us your way!
  - Ask UON
  - 1300 ASK UON
  - Visit Student Central
  - Message us on Facebook or Twitter
  - UONline via myUON