## degree Bachelor of Science

 MAJOR Physics (PCS)NAME $\qquad$ MAJOR Choose a second major

To assist you with subject information, we recommend you consult with your CSE Course/Major Advisor and refer to Subject Search. If you would prefer a part-time study plan, please adjust the below planner, reviewing subject prerequisites to ensure you are on track for course completion.

| Study Period 1 - SP1 | Study Period 2 - SP2 |
| :--- | :--- | :--- |
| Degree Core: SC1101 Science Technology and Truth | $\begin{array}{l}\text { Degree Option Core: } \\ \text { SC1102 Modelling Natural Systems } \\ \text { PREREQ: MA1020 } \\ \text { OR }\end{array}$ |
| SC1109 Modelling Natural Systems-Advanced^ |  |
| PREREQ: MA1000 OR MA1009 |  |$]$

@ If taking MA1020 - students need to take this subject in Study Period 3 (Jan-Feb)
${ }^{\wedge}$ Note- SC1109 is compulsory in the Advanced BSc Program and should be taken instead of SC1102 if you are considering that pathway.

|  | Study Period 1 - SP1 | Study Period 2 - SP2 |
| :---: | :---: | :---: |
|  | Degree Option Core: <br> SC2202 Quantitative Methods in Science <br> PREREQ: SC1102 OR MA1020 OR MA1000 OR MATHS B OR EQUIVALENT <br> OR <br> SC2209 Quantitative Methods in Science-Advanced PREREQ: SC1109 AND MA1003 PLUS 6CP OF OTHER LEVEL 1 SUBJECTS | Major Core: PH2240 Atomic and Nuclear Physics PREREQ:PH2002 AND MA1003 |
|  | Degree Core: <br> MA2000 Mathematics for Scientists and Engineers PREREQ: MA1003 <br> Students in this major must choose this subject from the Skill-List 2 | Major Core: |
|  | Major Core: PH2002 Classical Mechanisms and Quantum Physics 1 <br> PREREQ: MA1003 AND PH1005 AND (PH1006 OR PH1007 OR (EG1012 AND EG1011)) | Major Core: |
|  | Major Core: PH2019 Introduction to Electromagnetism Optics and Early Quantum PREREQ: (EG1012 OR PH1005) AND MA1003 | Major Core: |


|  | Study Period 1 - SP1 | Study Period 2 - SP2 |
| :---: | :---: | :---: |
|  | Degree Option Core: <br> SC3008 Professional Placement <br> PREREQ: COMPLETED 12CP SECOND YEAR SUBJECTS AND BE ENROLLED IN THEIR FINAL YEAR OF STUDY <br> OR <br> SC5008 Professional Placement - Prior approval required <br> OR <br> SC3901 Special Topic 1- Prior approval required <br> All available in multiple study periods |  |
|  | Major Core: PH3008 Statistical Mechanics and Transport PREREQ: PH2019 AND PH2002 AND MA2000 | Major Core: PH3002 Quantum Physics 2 PREREQ: MA2000 AND PH2002 |
|  | Major Core: PH3019 Electromagnetic Phenomena PREREQ: MA2000 and PH2019 | Major Core: |
|  | Major Core: | Major Core: |
|  | Elective |  |

## Further Degree Options:

| Skill-List 2: |  |
| :---: | :---: |
| Study Period 1-SP1 | Study Period 2 - SP2 |
| MA2000 Mathematics for Scientists and Engineers PREREQ: MA1003 | CH2103 Analytical Chemistry - TSV only PREREQ: CH1001 OR CH1011 |
| MA2830 Data Visualisation | EV2502 Introduction to Geographic Information Systems PREREQ: 12CP LEVEL 1 SUBJECTS |
| SC3010 Sensors and Sensing for Scientists PREREQ: SC2202/SC2209 | MA2210 Linear Algebra PREREQ: MA1003 |
|  | Trimester 3 (sept-Dec) |
|  | CP2404 Database Modelling |

## 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.

## ADDITIONAL COURSE REQUIREMENTS

Some majors require attendance in intensive or mixed mode attendance subjects on either the Townsville or Cairns campus. If students must attend intensive mode classes at a campus other than the one they are enrolled at, they are responsible for their own expenses.

Students studying this major as a second major must either i. undertake this major in conjunction with the Mathematics major; or prior to commencing this course; ii. have satisfied both MA1020 and CH1020 subject material in order to undertake this major in conjunction with the Data Science major, or iii. have satisfied either MA1020 or CH1020 subject material for other major combinations. Students must select MA1000 and MA1003 as undergraduate elective subjects and MA2000 as the List 2 subject.

## COURSE PROGRESSION REQUISITES

Must successfully complete 18 credit points of Level 1 and 2 science subjects before attempting any Level 3 science subject

## COURSE INCLUDES MANDATORY PROFESSIONAL PLACEMENT(S) Yes

## ADDITIONAL INFORMATION

Bachelor of Science course handbook
Physics major handbook

