

# Bachelor of Science

## Major in Marine Science

### ENTRY REQUIREMENTS

#### Assumed Knowledge

For astronomy and astrophysics, mathematics, statistical data science and physics majors: HSC Mathematics Advanced (Band 4), or equivalent. If you haven't met the required minimum level of achievement (Band 4 or equivalent), you can undertake an alternative introductory unit of study in that area.

#### Recommended Studies

HSC Mathematics Advanced or equivalent, at least 2 units of science. For astronomy and astrophysics, and physics majors: HSC Physics. For mathematics major: HSC Mathematics Extension 1 (Band E2) or HSC Mathematics Extension 2, or equivalent.

### CORE ZONE

**Essential units = Each unit is 10 credit points.**

**Capstone unit = 10 credit points**

FOSE3000 Making Science Work for You and Society: Capstone

**Essential units = 20 credit points**

FOSE1000 Becoming a Scientist

FOSE2000 The Science Practitioner

**Statistics Elective units = 10 credit points**

**Complete 10 credit points from the following units**

STAT1103 Introduction to Psychological Design and Statistics

STAT1170 Introductory Statistics

STAT1371 Statistical Data Analysis

**Data and Computing Elective units = 10 credit points**

**Complete 10 credit points from the following options.**

- Students enrolling in Astronomy, Physics, Mathematics or Statistical Data Science majors must enrol in FOSE1030.
- Student enrolling in Biology, Biotechnology, Chemistry, Human Biology, Earth and Environmental Sciences, and Physiological Sciences major must enrol in FOSE1025.
- Students enrolling in double majors that requires both FOSE1025 and FOSE1030 can complete the other Data & Computing unit not selected below in the Other Science - 20 credit points option set.

FOSE1025 Scientific Computing

FOSE1030 Introduction to Python Programming

**Other Science Elective units = 20 credit points**

20 credit points from ASTR, BIOL, CHEM, EESC, ENVS, MATH, PHYS, PSYU, STAT, BMOL, MOLS, FOSE units at 1000 or 2000 level

**Elective unit = 10 credit points**

**Complete 10 credit points from the following PACE units**

EESC3000 PACE: In Earth and Environmental Sciences

MOLS3002 PACE: Engaging the Community in Science

### MAJOR

**Major requirements = 80 credit points**

**Complete all of the following units**

BIOL1310 Organisms to Ecosystems

EESC1160 Blue Planet

BIOL2410 Ecology

BIOL2610 Biological Data Analysis

EESC2160 Climate and Oceans

BIOL3440 Aquatic Ecosystems

EESC3310 Marine Environmental Issues

BIOL3340 Marine Megafauna

### FLEXIBLE ZONE

**Flexible Zone = 80 credit points**

You can use your flexible zone to enrol in any Undergraduate unit for which you meet the requisites. You may also use your flexible zone to complete a second major or minor(s)