Bachelor of Science
Major in Biotechnology

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
MOLS3002 PACE: Engaging the Community in Science
MOLS3003 PACE: Molecular Sciences Project

MAJOR

Major requirements: 80 credit points
Complete each unit below
CHEM1001 Foundations of Chemical and Biomolecular Sciences 1
CHEM1002 Foundations of Chemical and Biomolecular Sciences 2
CHEM2201 Analysis and Measurement
BMOL2201 Biochemistry and Cell Biology
BMOL2401 Microbiology and Molecular Biology
BMOL3201 Advanced Biochemistry and Cell Biology
BMOL3202 Macromolecules
BMOL3402 Molecular Biology and Genomics

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)