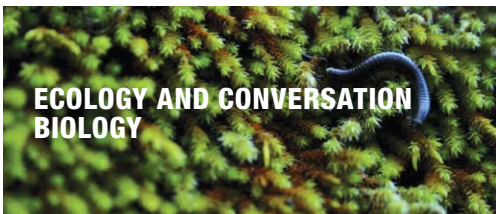


BIOLOGICAL AND LIFE SCIENCES

UNDERGRADUATE COURSES

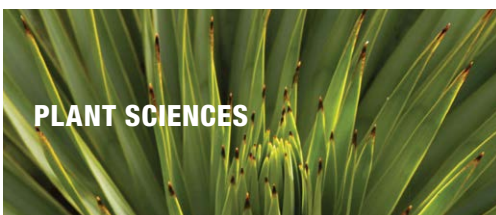
- ▶ Bachelor of Science
- ▶ Bachelor of Science Advanced (Honours) – Research
- ▶ Bachelor of Science Advanced (Honours) – Global Challenges
- ▶ 11 Double Degrees with a Bachelor of Science
- ▶ Bachelor of Applied Data Science
- ▶ Bachelor of Applied Data Science Advanced (Honours)



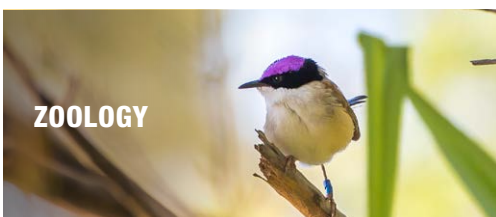
Ecology explores the interactions between organisms and their environments, which is central to understanding the diversity and organisation of life at the main recognised levels (genes, species and ecosystems). Conservation biology seeks to understand human impacts on these natural patterns and processes.



Genetics focuses on genes, their structure, function, transmission and evolution. Thanks to recent technological advances, we can now sequence entire individual genomes and make powerful comparisons both within and between species. This allows researchers to track evolutionary changes, determine gene function, and assess the impacts of genetic variation. These advances have profound implications for conserving endangered species, securing future food supplies and diagnosing, preventing and treating disease.



Plant sciences is the study of plants, their diversity and structure, and how they function. You will investigate how plants have evolved and adapted to particular environments, the distribution and diversity of plant species and communities and the critical contribution that crops make to human nutrition.



Zoology involves exploring and understanding animals, their diversity, evolution, form, function, behaviour and ecology. Study in zoology can be undertaken at the level of the whole animal down to the level of cell biology, biochemical processes and their genetic control.



Environmental science is a discipline that deals with the rapidly changing environmental issues facing the world today. You will gain a multi-disciplinary perspective of current environmental challenges, such as climate change, water and land management, resource use and sustainability. There are four streams available: General; Ecology; Climate; and Earth sciences.

EXAMPLE FIRST YEAR COURSE MAP

GENETICS AND GENOMICS

Semester 1	BIO1011	CHM1011 OR CHM1051	MTH1020 OR MTH1030 (OR MTH1035 depending on VCE background) OR SCI1020 OR SCI1022 OR STA1010	Another science sequence OR Science elective OR Non-science elective
Semester 2	BIO1022	CHM1022 OR CHM1052	SCI1000 Science communication to influence change	A unit to complete that science sequence OR BIO1042 OR Science elective OR Non-science elective

Other science sequences:

Computational Science; Earth Atmosphere and Environment; Mathematics; Physics; or Psychology.



Scan here for all other first year example course maps.
monash.edu/science/current-students/manage-your-science-studies/example-by-major

UNIQUE OPPORTUNITIES

Jock Marshall Reserve

An on campus bushland and wetland environment.

Local and International Field Trips

Learn beyond the classroom.

Industry Internships

Apply your skills in the workplace to gain some professional experience.

Research Projects

Work closely with an academic supervisor to carry out a research project.

International Experiences

Study overseas through an exchange, study abroad, study tour or Global Immersion Guarantee.

Monash Biological Society

Supplement your studies by joining the dedicated student-run club.

POTENTIAL CAREERS

- ▶ Animal technician
- ▶ Botanist/ plant scientist
- ▶ Bushland Officer
- ▶ Data scientist
- ▶ Ecologist
- ▶ Entomologist
- ▶ Environmental/ conservation biologist
- ▶ Environmental consultant
- ▶ Environmental health promoter
- ▶ Evolution and adaptation biologist
- ▶ Genetic counsellor
- ▶ Laboratory research technician
- ▶ Marine/ freshwater biologist
- ▶ Museum curator
- ▶ Palaeontologist
- ▶ Park ranger
- ▶ Science journalist
- ▶ Science teacher
- ▶ Soil scientist
- ▶ Viticulturist
- ▶ Wildlife manager
- ▶ Zoologist



CHELSEA

Degrees: Bachelor of Science (Honours)/Bachelor of Arts

Majors: Environmental Science and International Studies

Job: Graduate Fire and Ecology Project Officer at Department of Energy, Environment and Climate Action



Scan here for the full school brochure.



Your Essential Guide to Monash Science
monash.edu/science/future-students/your-essential-guide-domestic-students