Are you a high-achieving student with a special interest in Science?

Interested in exploring the limits of your capacity?
Interested in a career in Science research?
Interested in graduate medicine or other profession?

the Advanced Program is for you...

Unique features:
- Fast track degree
- Join a research team
- Individually tailored program
- Save money
- Choose any Science Honours degree

Graduate with one of these prestigious degrees:
Bachelor of Science (Honours) – Advanced
Bachelor of Biotechnology – Advanced
Bachelor of Environmental Science – Advanced
Bachelor of Medicinal Chemistry – Advanced
Bachelor of Marine Science – Advanced
Bachelor of Nanotechnology – Advanced

Preparation for a Science degree

If you are thinking of enrolling in a Science degree, it is strongly recommended that:
- you complete HSC Chemistry, and
- at least 2u Mathematics (or Advanced Mathematics), and if possible
- At least one of Physics, Biology, Geography or Geology

To help students who do not have this preparation, the Faculty of Science offers:
- Bridging Courses in Biology, Chemistry and Physics held in February before the start of Autumn Session
- Separate classes and extra tuition for first year Chemistry students with no background in Chemistry
- A special “catch-up” Mathematics subject for students entering without the required standard of Mathematics. This subject is also available in Summer Session and may be completed prior to first year through early enrolment.
Types of Degrees

Traditional flexible structure

3 years full-time
(or equivalent part-time)
May be followed by a 1 year Honours research project

- Bachelor of Science
  Students select one or two majors from
  Biological Sciences
  Chemistry
  Geology
  Human Geography
  Physical Geography
  Physics

OR combine one of these majors with a major in
  Applied Statistics
  Biomedical Science
  Computer Science
  Human Resource Management
  Management
  Marketing
  Mathematics
  Nutrition
  Population Health
  Psychology
  or any other major offered on Campus, such as
  a Modern Language, English Literature, History, etc

OR undertake an interdisciplinary program:
  Biotechnology
  Ecology
  Environment
  Medicinal Chemistry
  Nanotechnology
  Photonics
  Land and Heritage Management

OR study for 4-5 years and get two degrees:
  Bachelor of Science-Bachelor of Arts
  Bachelor of Science-Bachelor of Commerce
  Bachelor of Science-Bachelor of Laws
  Bachelor of Science-Bachelor of Mathematics
  Bachelor of Computer Science-Bachelor of Science
  Bachelor of Creative Arts-Bachelor of Science

Prescribed, specialist structure

- Bachelor of Marine Science
  Marine Science is the biology, chemistry and geoscience of the oceans, estuaries and coasts. As well as specialist marine training, students receive a broad background particularly in the biological and geosciences therefore a range of general government, industry and environment-related employment is available. Specifically marine-related positions, which usually require an Honours degree or a higher postgraduate degree are to be found in state fisheries, CSIRO, museums, local councils and environmental consultants.

- Bachelor of Radiation Physics
  The degree is built around core Physics subjects and includes a coherent range of specialist medical physics subjects, for example, human anatomy and physiology. The strengths of this degree lie in the practical experience gained in hospital environments in the final two years, and the networking that results. Employment can be obtained in hospitals and cancer care centers, government organizations such as ANSTO, private companies supplying medical instrumentation, and University and hospital research centers.

- Bachelor of Science Education
  The Bachelor of Science Education is offered at the Southern Sydney Access Centre (Loftus). It is directed towards providing pre-service educational training for teachers. The degree focuses on developing secondary school teachers as critical reflective practitioners with a sound basis of practical teaching skills. In addition, this degree also develops scientific concepts that can be applied in other community settings. The degree is structured to allow the integration of university and classroom throughout the course.
Types of Degrees

- **Bachelor of Biotechnology**
  Biotechnology encompasses many exciting and rapidly emerging fields such as genetic engineering. Graduates are extremely well placed to enter areas as diverse as agricultural and environmental biotechnology and human medicine. These graduates gain employment in, for example, biotechnology companies, hospitals, government departments and medical research institutes.

- **Bachelor of Environmental Science**
  Environmental Science is a multi-disciplinary area as environmental issues by their very nature involve all the science disciplines. Environmental specialists investigate and manage the wide range of environmental problems that are becoming increasingly apparent.

- **Bachelor of Medicinal Chemistry**
  Medicinal Chemistry is the branch of chemistry concerned with the development of pharmaceuticals for human use. Graduates are particularly qualified for employment in the pharmaceutical and biochemical industries, hospitals and government departments and other careers in chemistry.

- **Bachelor of Nanotechnology**
  Nanotechnology is set to revolutionize Materials Science/Engineering in the 21st Century. The degree targets the emerging fields of nano-materials, molecular machines and nano-science. The course has a materials chemistry focus with possible elective subjects in physics, engineering (e.g. mechatronics) and biology, giving students scope to match the course to their interests whilst retaining a core focus on molecular design and characterization of materials at the nano-dimension.

- **Other Science-related degrees:**
  - Bachelor of Computer Bioinformatics
  - Bachelor of Computer Geoinformatics
  - Bachelor of Science Education (Loftus Campus)