2027 Science Subject Guide

Study Abroad and Exchange

Study Abroad and Exchange students may choose subjects from more than one faculty at UTS.

This guide highlights our most popular Science subjects. You can also search for other subjects and majors using the UTS Handbook and UTS Science website.

Subjects offered in other faculties may carry different credit point values. Be mindful of this when choosing your subjects. Final enrolment into subjects is conditional upon class availabilities and completion of the online enrolment process.

When can I study?

Study Abroad and Exchange is available:

Period	Category
February – June	**A**: Autumn Session

Period	Category
July – November	**S**: Spring Session

Please note: Some of the subjects you want to undertake from the list may not be available in your intake session. To confirm subject availability, please search the relevant subject codes in the UTS Timetable Planner.

In the Timetable Planner, "AUT" refers to Autumn Session, and "SPR" refers to Spring session.

What can I study?

Pre-approved subject list

This is a great place to start! All subjects in this list are:

- **Pre-approved** and automatically added to your study plan
- You can **self-enrol** once you activate your student account
- No need to include them in your application
- **No additional subject assessments** are required
- You can even choose subjects **outside your study area**, as long as it's permitted by your home university

Faculty assessed subjects

All subjects from this list require prior knowledge. You will need to:

- List the subjects in your application
- Check prerequisites in the UTS Handbook
- Demonstrate that you have the prior skills and knowledge necessary to undertake the subject (academic transcript and subject outline)

Note: Each subject will be individually assessed by the faculty for approval and it can take up to 6 weeks.

Faculty assessed subjects

Key: (Information included: Subject Number, Subject Name, Level and Session offered)

- **L1** (Level 1) Usually undertaken in first year (similar to 100 level, introductory level)
- **L2** (Level 2) Usually undertaken in second year (similar to 200 level, prior knowledge is required)
- **L3** (Level 3) Usually undertaken in third year (similar to 300 level, advanced level)

Undergraduate Subjects

- Students with no prior Science background should start with the pre-approved subject list
- Undergraduate students are not permitted to study postgraduate subjects.
- All subjects have prerequisites.

Chemistry

65212	Chemistry 2	L1	S
65621	Environmental Chemistry	L1	S
65312	Forensic Imaging	L1	S
65202	Organic Chemistry 1	L2	A

Mathematical Sciences

33130	Mathematics 1	L1	A or S
33230	Mathematics 2	L1	A or S
37161	Probability and Random Variables	L1	S
37252	Regression and Linear Models	L2	A
37495	Statistical Design and Models for Evaluation Studies	L3	A

Life Sciences

91401	Immunology	L1	S
91563	Haematology	L1	A
91314	General Microbiology	L2	A
91320	Metabolic Biochemistry	L2	A
91500	Histology	L2	A
91830	Human Pathophysiology	L2	A or S
91132	Molecular Biology	L2	S

Physics and Advanced Materials

68201	Physics 2	L1	S
68075	Advanced Materials	L2	A
68206	Optics	L2	A
65307	Thermodynamics, Energy and Spectroscopy	L2	S

Environmental Science Subjects

- Some UTS Environmental Science subjects are taught by major intensive field trips. Please check the timetable and Canvas for the dates and details of the subject. Generally, these are available only to students studying for two sessions, as significant time is taken to prepare for the trip. Priority will be given to full-degree students.
- $ Additional Excursion Costs for off-campus work in the field. Students should email studyabroad.exchange@uts.edu.au for current pricing.
- Students will be required to supply their own field-appropriate clothing (for any terrestrial field work) and equipment where required.

91120	GIS and Remote Sensing	L2	A
91154	Ecology	L2	A
91168	Ecological Genetics	L2	A
91157	Marine Algae and Productivity ($ – field work runs during StuVac)	L2	S
91270	Plant Physiology and Climate Change	L2	S

91121	Aquatic Ecosystems ($)	L3	A
91116	Australian Wildlife and Management ($ – N.B. field work running late February / early March)	L3	A
91118	Fish Biology and Fisheries ($)	L3	A
91309	Biodiversity Conservation	L3	A
91145	Environmental Protection and Management	L3	A
91159	Environmental Remediation	L3	S
91155	Stream and Lake Assessment ($)	L3	S

Postgraduate Subjects

Note: Students enrolling in these postgraduate subjects must have completed the equivalent relevant studies.

37010	Statistics and Financial Econometrics	A
35004	Mathematical Analysis and Applications	A
37400	Postgraduate Optimisation	A
66063	Analytical Separation Science	A
66067	Environments and Analytical Chemistry	A
65010	Forensic Toxicology and Drug Analysis	A
37401	Machine Learning: Mathematical Theory and Applications	S
37457	Advanced Bayesian Methods	S
37007	Probability Theory and Stochastic Analysis	A
91572	Proteomics (8 credit points)	S
91575	Proteomics (6 credit points)	S
69501	Infection and Immune Diagnostics	S
66066	Chemical Pathology	S
66064	Analytical Spectroscopy	S
69512	Diagnostic Pathology	A or S
69513	Medical Microbiology	A or S
69514	Biomolecular Science	A or S