

Study Abroad and Exchange at UTS: Engineering

As a study abroad or exchange student, you may design a program of subjects from more than one faculty at UTS, provided you enrol in 24 credit points of full-time study.

Engineering subjects are 6 credit points each. In other faculties at UTS, subjects are offered at different credit point levels, so make sure that you satisfy the credit point requirements when choosing your subjects.

What can I study?

- Study abroad and exchange is available:
 - > Autumn session (March – June) **A**
 - > Spring session (July – November) **S**
- Some subjects have prerequisites:
 - > Subjects marked with an *(asterisk) have pre-requisites. You must provide evidence that you have passed a subject equivalent to the UTS pre requisite
 - > Undergraduate study abroad students are not normally permitted to study postgraduate subjects
- For further details on subjects, including prerequisite knowledge, refer to the UTS Handbook at www.handbook.uts.edu.au.
- For availability of subjects, check the timetable at <http://timetable.uts.edu.au>. A subject offering is subject to change.

For more information

UTS Engineering programs: www.eng.uts.edu.au

UTS study abroad and exchange:
www.studyabroad-exchange.uts.edu.au

Tel: (+61 2) 9514 7915

Email: studyabroad.exchange@uts.edu.au

Undergraduate subjects

Key

Information is ordered: **Subject Number, Level and Name**

- Level 1: Usually undertaken in first year (similar to 100 level, introductory level)
- Level 2: Usually undertaken in second year (similar to 200 level, prior knowledge is required)
- Level 3: Usually undertaken in third year (similar to 300 level, advanced level)
- Level 4: Usually undertaken in fourth year (similar to 400 level, advanced level)

Core Subjects

- [48230](#) 1 Engineering Communication A/S
- [48221](#) 1 Engineering Computations* A/S
- [48240](#) 2 Design and Innovation Fundamentals* A/S
- [48250](#) 2 Engineering Economics and Finance* A/S
- [48260](#) 3 Engineering Project Management* A/S
- [48210](#) 3 Interrogating Technology: Sustainability, Environment and Social Change* A/S
- [48270](#) 4 Entrepreneurship and Commercialisation* A/S

Biomedical

- [41101](#) 3 Fundamentals of Biomedical Engineering* S

Civil / Civil and Environmental

- [48310](#) 1 Introduction to Civil and Environmental Engineering A/S
- [48321](#) 1 Engineering Mechanics* A/S
- [48320](#) 1 Surveying A/S
- [48340](#) 2 Construction* A/S
- [48352](#) 2 Construction Materials* A/S
- [48821](#) 2 Principles of Environmental Engineering* S
- [48641](#) 3 Fluid Mechanics* A/S
- [48331](#) 2 Mechanics of Solids* A/S
- [48840](#) 2 Water Supply and Wastewater Engineering* S

- [48350](#) 3 Environmental and Sanitation Engineering* A/S
- [48850](#) 4 Environmental Planning and Law A
- [48362](#) 3 Hydraulics and Hydrology* A/S
- [48860](#) 3 Pollution Control and Waste Management* A
- [48330](#) 2 Soil Behaviour* A/S
- [48349](#) 2 Structural Analysis* A/S
- [48370](#) 3 Road and Transport Engineering* A/S
- [48360](#) 3 Geotechnical Engineering* A/S
- [48353](#) 3 Concrete Design* A/S
- [48366](#) 4 Steel and Timber Design* A/S
- [48389](#) 4 Computer Modelling and Design* A/S
- [48881](#) 4 Water and Environmental Design* S
- [48371](#) 4 Advanced Engineering Computing* S

Electrical Engineering

- [48510](#) 1 Introduction to Electrical Engineering A/S
- [48520](#) 1 Electronics and Circuits* A/S
- [48521](#) 1 Fundamentals of Electrical Engineering* A/S
- [48530](#) 2 Circuit Analysis* A/S
- [48531](#) 2 Electromechanical Automation* A/S
- [48430](#) 2 Embedded C* A/S
- [48540](#) 2 Signals and Systems* A/S
- [48451](#) 3 Advanced Digital Systems* A/S
- [48571](#) 3 Electrical Machines* A/S
- [48434](#) 4 Embedded Software* A/S
- [48572](#) 3 Power Circuit Theory* A/S
- [48580](#) 4 Advanced Control* A/S
- [48570](#) 3 Data Acquisition and Distribution* A/SA
- [48560](#) 3 Introductory Control* A/S
- [48561](#) 4 Power Electronics and Drives* A
- [48582](#) 4 Power Systems Analysis and Design* A
- [48583](#) 4 Power Systems Operation and Protection* S
- [48550](#) 4 Renewable Energy Systems* S

ICT Engineering

- [48410](#) 1 Introduction to ICT Engineering A
- [48720](#) 1 Network Fundamentals S
- [48024](#) 2 Applications Programming* A/S
- [48023](#) 1 Programming Fundamentals A/S
- [48441](#) 2 Introductory Digital Systems* A/S
- [48541](#) 2 Signal Theory* A/S
- [48740](#) 2 Communications Networks* A
- [48730](#) 3 Network Security* A/S

- [48750](#) 3 Network Planning and Management* S
- [48450](#) 3 Real-time Operating Systems* A
- [48770](#) 3 Continuous Communications* A
- [48440](#) 2 Software Engineering Practice* S
- [48771](#) 4 Discrete Communications* S
- [48471](#) 4 ICT Analysis* A/S
- [48481](#) 4 ICT Design* A/S
- [48780](#) 4 Mobile Communications* A
- [48433](#) 3 Software Architecture* S
- [48436](#) 3 Digital Forensics* S
- [41900](#) 3 Fundamentals of Security* A/S

Mechanical / Mechanical and Mechatronic/ Mechatronic Engineering

- [48610](#) 1 Introduction to Mechanical and Mechatronic Engineering A/S
- [48620](#) 1 Fundamentals of Mechanical Engineering* A/S
- [48531](#) 2 Electromechanical Automation* A/S
- [48641](#) 2 Fluid Mechanics* A/S
- [48640](#) 2 Machine Dynamics* A/S
- [48621](#) 2 Manufacturing Engineering* A/S
- [48600](#) 2 Mechanical Design 1* A/S
- [48622](#) 2 Mechatronics 1* A/S
- [48651](#) 2 Thermodynamics* A/S
- [48660](#) 3 Dynamics and Control* A/S
- [48661](#) 3 Heat Transfer* A/S
- [48623](#) 3 Mechatronics 2* A/S
- [48642](#) 2 Strength of Engineering Materials* A/S
- [48601](#) 4 Mechanical Vibration and Measurement* S
- [48650](#) 3 Mechanical Design 2* A/S
- [48663](#) 4 Advanced Manufacturing* A/S
- [48670](#) 4 Mechanical and Mechatronic Design* A/S

Postgraduate subjects

The following postgraduate subjects are available for bachelor level students to enrol in. Students enrolling in these subjects must have completed the equivalent relevant engineering studies (approximately 2.5 years of a 4 year degree).

Key

- **Information is ordered: Subject Number, Name**
- Subjects marked with an *(asterisk) have prerequisites. You must provide evidence that you have passed a subject equivalent to the UTS pre requisite at your home institution.

Engineering Management

- [49006](#) Risk Management in Engineering A/S
- [49016](#) Technology and Innovation Management A/S

Civil / Civil and Environmental Engineering

- [42991](#) Advanced Water and Wastewater Treatment A
- [49047](#) Finite Element Analysis S/A
- [49106](#) Road Engineering Practice * S
- [49133](#) Steel and Composite Design S
- [49115](#) Façade Engineering A
- [49117](#) Floodplain Risk Management in NSW S
- [49118](#) Applied Geotechnics S
- [49119](#) Problematic Soils and Ground Improvement Technology A
- [49121](#) Environmental Assessment and Planning S
- [49122](#) Ecology and Sustainability S
- [49123](#) Waste and Pollution Management A
- [49125](#) Environmental Risk Assessment S
- [49126](#) Environmental Management of Land A
- [49127](#) Decentralised Water and Wastewater Treatment* S
- [49131](#) Bridge Design * S
- [49134](#) Structural Dynamics and Earthquake Engineering S
- [49136](#) Application of Timber in Engineering Structures A
- [49150](#) Prestressed Concrete Design A
- [49151](#) Concrete Technology and Practice A

[49254](#) Advanced Soil Mechanics and Foundation Design S

[49255](#) Catchment Modelling S

[49256](#) Flood Estimation A

[49258](#) Pavement Analysis and Design A

[49285](#) Emergency Management S

ICT Engineering

- [49048](#) Wireless Networking Technologies * A
- [49110](#) 3G Mobile Communication Systems * S
- [49201](#) Integrated Services Networks * S
- [49202](#) Communication Protocols * A/S
- [49205](#) Transmission Systems * A
- [49215](#) Telecommunication Industry Management S
- [49223](#) Satellite Communication Systems * A
- [49238](#) Telecommunications Network Management* S
- [49262](#) Web Technologies S
- [42890](#) 4G Mobile Technologies* A
- [42902](#) Interior Routing and High Availability* A
- [42903](#) Multi Protocol Label Switching* S

Electrical / Mechanical and Mechatronic Engineering

- [42906](#) Biomedical Signal Processing* A
- [42907](#) Design for Durability* S
- [49261](#) Biomedical Instrumentation S
- [49274](#) Advanced Robotics * S
- [49275](#) Neural Networks and Fuzzy Logic A
- [49307](#) Internal Combustion Engines * S
- [49316](#) Materials Handling A
- [49322](#) Air Conditioning * A
- [49325](#) Computer-aided Mechanical Design S
- [49329](#) Control of Mechatronic Systems * S
- [49928](#) Design Optimisation for Manufacturing A