

# 2024 Information Technology (IT) 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 IT subjects. You can also search for other subjects and majors using the [UTS Handbook](#) and UTS IT website: <https://www.uts.edu.au/study/information-technology>

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	<b>A:</b> Autumn Session

Period	Category
July – November	<b>S:</b> Spring Session

For availability of subjects, check the timetable at <https://www.uts.edu.au/current-students/timetable/uts-timetable-planner>

## 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 in your study plan
- No need to add them in your application
- You can self-enrol once you activate your student account
- No additional subject assessments will be required

### Faculty assessed subjects

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

- List the subjects in your application
- Demonstrate that you have the prior skills and knowledge necessary to undertake the subject (academic transcript and subject outline)
- Check prerequisites in the UTS Handbook [www.handbook.uts.edu.au](http://www.handbook.uts.edu.au)

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

## Pre-approved subjects

### Undergraduate

<a href="#">31269</a>	Business Requirements Modelling
<a href="#">31016</a>	Career Management for IT Professionals
<a href="#">31282</a>	Systems Testing and Quality Management
<a href="#">31265</a>	Communication for IT Professionals
<a href="#">31266</a>	Introduction to Information Systems
<a href="#">31061</a>	Database Principles
<a href="#">31268</a>	Web Systems
<a href="#">31250</a>	Introduction to Data Analytics
<a href="#">31260</a>	Fundamentals of Interaction Design
<a href="#">41039</a>	Programming 1

### Postgraduate

<a href="#">32003</a>	Computer Game Design
<a href="#">32004</a>	Game Development
<a href="#">32027</a>	Interactive Media
<a href="#">32144</a>	Technology Research Preparation
<a href="#">32405</a>	Human-Centred Design Research Methods
<a href="#">32501</a>	Computer Graphics
<a href="#">32516</a>	Internet Programming
<a href="#">32524</a>	LANs and Routing
<a href="#">32531</a>	Global Information Systems
<a href="#">32541</a>	Project Management
<a href="#">32543</a>	3D Animation
<a href="#">32547</a>	UNIX Systems Programming
<a href="#">32557</a>	Enabling Enterprise Information Systems
<a href="#">32558</a>	Business Intelligence
<a href="#">32563</a>	IT Professional and Society
<a href="#">32570</a>	Enterprise Architecture Practice
<a href="#">32571</a>	Enterprise Software Testing
<a href="#">32998</a>	.NET Application Development
<a href="#">32130</a>	Fundamentals of Data Analytics
<a href="#">41020</a>	Human-centred Design Methods
<a href="#">42017</a>	Fundamentals of Interaction Design
<a href="#">42070</a>	Prototyping Physical Interaction

## 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 Engineering background should start with the [pre-approved subject list](#)
- Undergraduate students are not permitted to study postgraduate subjects.
- \* Indicates that this subject has prerequisite(s)

#### Core subjects

<a href="#">48023</a>	Programming Fundamentals	L1	A or S
<a href="#">41092</a>	Network Fundamentals	L1	A or S
<a href="#">31271</a>	Database Fundamentals*	L2	A or S
<a href="#">31272</a>	Project Management and the Professional*	L3	A or S

#### Business Information Systems Management

These subjects are suitable for students with a background in information systems.

<a href="#">31247</a>	Collaborative Business Processes*	L1	A or S
<a href="#">31255</a>	Finance and IT Professionals*	L2	A
<a href="#">31257</a>	Information System Development Methodologies	L2	A
<a href="#">31258</a>	Innovations for Global Relationship Management*	L2	S
<a href="#">31245</a>	Business Process and IT Strategy*	L3	S
<a href="#">31097</a>	IT Operations Management*	L3	A

#### Computer Graphics and Animation

For IT students with no prior background in computer graphics, [31080](#) is recommended as a starting point.

<a href="#">31264</a>	Introduction to Computer Graphics*	L2	A
<a href="#">31262</a>	Introduction to Computer Game Design*	L2	A
<a href="#">31080</a>	Interactive Media*	L2	S
<a href="#">31263</a>	Introduction to Computer Game Development*	L3	S

#### Interaction Design

These subjects are suitable for students with a background in software, interactive media and interaction / user design.

<a href="#">41019</a>	Prototyping Physical Interaction*	L2	A
<a href="#">31777</a>	Advanced Interaction Design*	L2	S
<a href="#">31080</a>	Interactive Media	L2	S
<a href="#">41021</a>	Interaction Design Studio (12CP)*	L3	A or S

#### Data Analytics

These subjects are suitable for students with a background in statistics, business intelligence and/or analytics.

<a href="#">41040</a>	Introduction to Artificial Intelligence*	L1	S
<a href="#">42028</a>	Deep Learning and Convolutional Neural Network*	L2	A
<a href="#">31256</a>	Image Processing and Pattern Recognition	L2	S
<a href="#">31005</a>	Machine Learning*	L2	S

#### Enterprise Systems Development

These subjects are suitable for students with a background in software development. All subjects assume introductory Java programming ability.

<a href="#">48024</a>	Programming 2*	L2	A or S
<a href="#">31251</a>	Data Structures and Algorithms*	L2	A
<a href="#">41001</a>	Cloud Computing and Software as a Service*	L3	A
<a href="#">41889</a>	Application Development in the iOS Environment*	L3	A
<a href="#">31777</a>	Advanced Interaction Design*	L3	S
<a href="#">31927</a>	Application Development with .NET*	L3	S
<a href="#">48433</a>	Software Architecture*	L3	S

## Networking and Cybersecurity

These subjects are suitable for students with a background in networking and data communications.

<a href="#">48024</a>	Programming 2*	L2	A or S
<a href="#">31277</a>	Routing and Switching Essentials*	L2	A or S
<a href="#">41900</a>	Cryptography	L2	A
<a href="#">31748</a>	Programming on the Internet*	L2	A
<a href="#">31338</a>	Network Servers*	L2	S
<a href="#">31275</a>	Mobile Networking*	L2	S
<a href="#">48730</a>	Cybersecurity*	L3	A or S
<a href="#">41889</a>	Application Development in the iOS Environment*	L3	A
<a href="#">48436</a>	Digital Forensics*	L3	S
<a href="#">41891</a>	Cloud Computing Infrastructure*	L3	S

## Postgraduate subjects

The following are postgraduate subjects in IT at UTS. Apart from the foundation IT subjects mentioned below, generally students are required to have completed a bachelor's degree in computing, IT, or a related field (or have equivalent prior knowledge) to be eligible to study the following subjects.

### Foundation IT subjects

These postgraduate subjects are suitable for students who have completed their bachelor's degree in a field other than computing or IT.

<a href="#">32555</a>	Fundamentals of Software Development	A or S
<a href="#">32606</a>	Database	A or S

### Data Analytics

<a href="#">42913</a>	Social and Information Network Analysis	A
<a href="#">32113</a>	Advanced Database	S
<a href="#">32513</a>	Advanced Data Analytics Algorithms	S
<a href="#">32146</a>	Data Visualisation and Visual Analytics	S
<a href="#">42177</a>	Image Processing and Pattern Recognition*	S
<a href="#">42913</a>	Social and Information Network Analysis	A

### Interactive Media

<a href="#">95566</a>	Digital Experience Design	A
<a href="#">95563</a>	Storytelling and Sense-making Studio	S

### Internetworking

<a href="#">32548</a>	Cybersecurity	A or S
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### Software Development

<a href="#">42889</a>	iOS Application Development	A
<a href="#">42904</a>	Cloud Computing and Software as a Service	A
<a href="#">32509</a>	Advanced Interaction Design	S