



Study Abroad and Exchange at UTS: Information Technology

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.

IT subjects are 6 credit points each. In other faculties at UTS, however, subjects are offered at different credit point levels, so it's important to make sure that you satisfy the credit point requirements when choosing your subjects.

What can I study?

- > Study abroad and exchange is available:
 - > February semester (Autumn, March – June)
 - > July semester (Spring, August – November)
- > Prerequisites apply to certain subjects:
 - > If you apply for a subject with a prerequisite, you will first need to demonstrate that you have the prior skills and knowledge needed to undertake the subject.
 - > Undergraduate study abroad students are not normally permitted to study postgraduate Business 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>. Many subjects are offered in one semester only.

For more information

UTS IT programs: www.it.uts.edu.au

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

Tel: (+61 2) 9514 7915

Email: studyabroad.exchange@uts.edu.au

Undergraduate subjects

The following are undergraduate subjects in IT at UTS. Students with no prior IT background should start with the IT Core subjects.

Key:

- > **Information is ordered: Subject Number, Level and Name**
- > Level 1: Usually undertaken in first year (similar to 100 level, introductory level)

Subjects marked with an *(asterix) have no prerequisites, and are good starting points for students who have not studied IT before.
- > 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)
- > CCNA = Cisco Networking Academy subjects

Core Subjects

- 31265 1 Communication for IT Professionals *
- 31266 1 Introduction to Information Systems *
- 48023 1 Programming Fundamentals (Java) *
- 31268 1 Web Systems *
- 31269 1 Business Requirements Modelling
- 31270 1 Networking Essentials (CCNA1) *
- 31271 2 Database Fundamentals (Oracle)
- 31272 3 Project Management and the Professional

Business Information Systems Management

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

- 31097 2 IT Operations Management
- 31245 2 Business Process and IT Strategy
- 31247 2 Collaborative Business Processes



Business Information Systems Management (continued)

- 31255 2 Finance and IT
- 31257 2 Information System Development Methodologies
- 31258 2 Innovations for Global Relationship Management
- 31276 2 Networked Enterprise Architecture
- 31282 2 Systems Testing and Quality Management

Computer Graphics and Animation

For IT students with no prior background in computer graphics, 31080 is recommended as a starting point.

- 31080 2 Digital Multimedia (Flash)
- 31241 3 3D Computer Animation (Maya)
- 31249 3 Computer Graphics Rendering Techniques (C++)
- 31262 2 Introduction to Computer Game Design
- 31263 3 Introduction to Computer Game Programming (C#, XNA)
- 31264 2 Introduction to Computer Graphics (C++)

Data Analytics

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

- 31000 3 e-Business Trading (Java)
- 31005 3 Advanced Data Analytics
- 31050 3 Programming with Patterns
- 31250 2 Introduction to Data Analytics
- 31256 3 Image Processing and Pattern Recognition
- 31259 3 Intelligent Agents in Java

Enterprise Systems Development

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

- 48024 2 Applications Programming (Java)
- 31100 3 Enterprise Development with the .NET Framework (C#)
- 31251 3 Data Structures and Algorithms (C++)

- 31253 2 Database Programming (PL/SQL)
- 31075 2 Object-relational databases (Oracle)
- 31260 3 Interface Design
- 31335 3 Extreme Programming
- 31777 3 Human-Computer Interaction
- 31927 2 Application Development with .NET (C#)
- 41001 2 Cloud Computing and Software as a Service
- 41005 3 Cloud-based Enterprise Application Development
- 48333 2 Software Architecture
- 48440 2 Software Engineering Practice

Internetworking and Applications

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

- 31242 3 Advanced Internet Programming (Java EE)
- 31246 3 Network Design
- 31252 3 Network Security
- 31254 1 e-Commerce
- 31274 3 Network Management
- 31275 2 Mobile Networking
- 31277 2 Routing and Internetworks (CCNA2)
- 31283 3 WANS and VLANS (CCNA3/4)
- 31284 2 Web Services Development (Java)
- 31285 3 Mobile Applications Development (Android)
- 31338 2 Network Servers (Linux, Windows 2008)
- 31748 2 Programming on the Internet (PHP, Javascript)



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 degree in computing, IT or a related field (or have equivalent prior knowledge) to be eligible to study the following subjects.

Key

> **Information is ordered: Subject Number, Name**

Foundation IT subjects

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

- 32144 Technology Research Preparation
- 32524 LANs and Routing
- 32541 Project Management
- 32555 Fundamentals of Software Development
- 32557 Enabling Enterprise Information Systems
- 32563 IT Professional and Society
- 32606 Database

Computer Graphics and Gaming

- 32003 Computer Game Design
- 32004 Game Programming
- 32501 Computer Graphics
- 32543 3D Animation
- 32544 Advanced Image Synthesis Techniques

Data Mining and Business Intelligence Technologies

- 32113 Advanced Database
- 32130 Fundamental of Data Analytics
- 32133 e-Market Trading Technology
- 32146 Data Visualisation and Visual Analytics
- 32513 Advanced Data Analytics
- 32530 Building Intelligent Agents
- 32567 Business Intelligence for Decision Support
- 32568 Business Intelligence Modelling and Analysis

Enterprise Software Engineering and Applications Development

- 32106 Object-oriented Process
- 32148 Enterprise Computing
- 32509 Interaction Design
- 32510 Principles of Object-oriented Programming in C++
- 32535 Database in Distributed Environments
- 32536 Object-oriented Modelling
- 32569 Enterprise Business Requirements
- 32570 Enterprise Software Architecture
- 32571 Enterprise Software Testing
- 42901 Object-Relational Databases
- 42904 Cloud Computing and Software as a Service

Information Systems Management and Services

- 32208 Information Systems Strategy
- 32531 Global Information Systems
- 32558 Business Intelligence
- 32559 Business Process Design
- 32560 Information Systems Architecture
- 32603 Systems Quality Management
- 32990 IT Contracts and Outsourcing
- 42900 Sustainability and Information Systems
- 49016 Technology and Innovation Management
- 49306 Quality and Operations Management Systems

Internetworking and Network Services

- 32012 Internet Quality of Service (QoS)
- 32118 Mobile Communications and Computing
- 32209 Advanced Topics in Computer Networks
- 32309 Network Security Enterprise Design
- 32523 Operating Systems for Network Security
- 32527 Internetwork Design
- 32528 Network Management
- 32548 Network Security
- 32702 Contemporary Telecommunications
- 49048 Wireless Networking Technologies
- 49099 GSM, GPRS and EDGE Technologies
- 49110 3G Mobile Communication Systems
- 49227 Wireless Sensor Networks



Multimedia

- 32027 Multimedia Systems Design
- 32029 Interactive Arts
- 95563 Digital Media Development Process
- 95564 Digital Media Technologies
- 95565 Digital Graphics and the Still Image
- 95566 Digital Information and Interaction Design
- 95567 Digital Media in Social Context
- 95568 Digital Sound and the Moving Image

Network Applications

- 32013 .NET Enterprise Development
- 32120 Introduction to e-Business Technology
- 32516 Internet Programming
- 32525 Web Services Technologies and Applications
- 32547 UNIX Systems Programming
- 32549 Advanced Internet Programming
- 32998 .NET Application Development