

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 to200 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



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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)



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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



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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