

Information Technology

Bachelor of **Information Technology**
Master of **Information Technology**
Joint Masters of **Information Technology and Business Administration**

JCU Singapore

Established in 2003

JCU Singapore is fully owned by James Cook University Australia. The university is ranked in the top 4%* of universities in the world. It established JCU Singapore in 2003 as part of its expressed intent of internationalising its activities and offers a suite of university level programs at the Singapore campus including Business, IT, Psychology and Education.

Additionally, JCU Singapore offers courses at the pre-university level, specifically designed to provide pathways for students who are unable to immediately meet university entrance standards.

JCU Singapore campuses are located at Upper Thomson and at Ang Mo Kio. Both provide students with access to a full range of facilities and services to support their learning. These include lecture and seminar rooms, library and associated study facilities, computer laboratories, and access to a variety of sporting facilities. In order to ensure that students have ready access to LearnJCU, our technology based learning management system, all students are provided with an iPad** when they commence their course.

JCU Inter-campus Mobility Program

JCU Singapore provides the opportunity for students to study in Singapore and in Australia and yet still remain as Singapore based students paying their fees in Singapore currency. This is a unique program in Asia and is only able to operate because the university operates across both countries. The program is designed to ensure the students get the best possible outcomes from their years of study with the university.

* The Academic Ranking of World Universities, Shanghai Jiao Tong University, 2013

** Provisions apply





Modern business and society are increasingly computer-reliant.

In recent years the Internet and local computer networks have become essential everyday business tools. The people who make this work are called Information Technology (IT) professionals. Not surprisingly, the IT industry is one of the world's fastest-growing industries, and IT graduates can expect exciting and rewarding careers, anywhere in the world.

Note: International students in Singapore on a Student Pass are not permitted to work. For more information please visit www.ica.gov.sg

JCU Singapore is EduTrust Certified. The EduTrust certification scheme is administered by the Council for Private Education (CPE) a statutory board formed in 2009. EduTrust requires all students to be covered under a Fee Protection Scheme. In JCU Singapore, this is provided through an insurance protection scheme. Further, EduTrust also requires that the students must be covered under a medical insurance coverage which has provision for hospitalisation, surgery and treatment costs throughout their course duration. JCU Singapore will advise in the Standard Student Contract the total amount of insurance payable.

For more details please visit the CPE website: www.cpe.gov.sg

Bachelor of Information Technology

MAJORS:

Computing and Networking
Interactive Technologies and Games Design

The study of Information Technology is concerned with the design and use of computer systems and networks. Our Computing and Networking major bridges both pure computer science and IT application areas. The Interactive Technologies and Games Design major aims to provide a pathway to employment for graduates with the technological and software engineering skills applicable to games design execution.

Our Bachelor of Information Technology program is fully accredited by the Australian Computer Society at the 'Professional Level' (its highest level).

As an IT student, you will be entitled to memberships with two professional bodies: The Institute of Electrical and Electronics Engineers (IEEE) and the Singapore Computer Society (SCS).

Career prospects

Quality IT graduates (depending on their major) will find satisfying careers in converging telecommunications, multimedia and computing. Specific careers may include simulations/multimedia developer and designer, web designer/programmer, application developer, project manager, network designer, software developer, system analyst, and IT researcher.

Bachelor of Information Technology

Duration: 2 years full time

Course Structure: 3 trimesters per year
(normally 4 subjects per trimester)

Intakes: February, June & October

Total Tuition Fees: S\$47,765

Note: All course fees include prevailing 7% Goods and Services Tax (GST)
Students will pay the tuition fees in equal instalments. The details of the breakdown will be provided in your Student Contract. Please contact us for further details.



Study Program

Core Subjects

Computing and Networking

Introduction to Programming I
Introduction to Programming II
Conceptual Modelling
IT Fundamentals
Statistics and Data Analysis
Software Engineering
Web Programming
Hardware and Software Fundamentals
Advanced Programming
Networking
Human Computer Interaction
Information Security
Project Management I
Project Management II
Knowledge Discovery and Data Mining



Interactive Technologies and Games Design

Introduction to Programming I
Introduction to Programming II
Conceptual Modelling
IT Fundamentals
Business and IT Interface
Software Engineering
Web Programming
Hardware and Software Fundamentals
Animation and Simulation
Games Design and Technology
Human Computer Interaction
Information Security
Project Management I
Project Management II
Simulation

Electives

Students to choose 9 elective subjects



Master of Information Technology

MAJORS:

Business Informatics

Computing and Networking

Interactive Technologies and Games Design

In the expanding e-Business/e-Commerce industry, there is a growing global demand for graduates skilled with a mix of marketing, management, internet, multimedia, computing, networking, software technologies and business operation skills.

Our Master of Information Technology program provides practical and relevant skills to allow graduates of different disciplines to move into the IT industry.

Students have an opportunity to specialise in Business Informatics, Computing and Networking or Interactive Technologies and Games Design.

Our Master of Information Technology program is fully accredited by the Australian Computer Society at the 'Professional Level' (its highest level).

As an IT student, you will be entitled to membership with two professional bodies: The Institute of Electrical and Electronics Engineers (IEEE) and the Singapore Computer Society (SCS).

Career prospects

Depending on the major, the Master of Information Technology equips students with skills for a career in a variety of settings. They can operate as software, database or administration consultants or project managers for IT, education, research and system development projects.

Master of Information Technology

Duration: 12 months

Course Structure (normally 4 subjects per trimester): 3 trimesters

Intakes: February, June & October

Total Tuition Fees: S\$32,100

Master of Information Technology (Extended) with bridging subjects

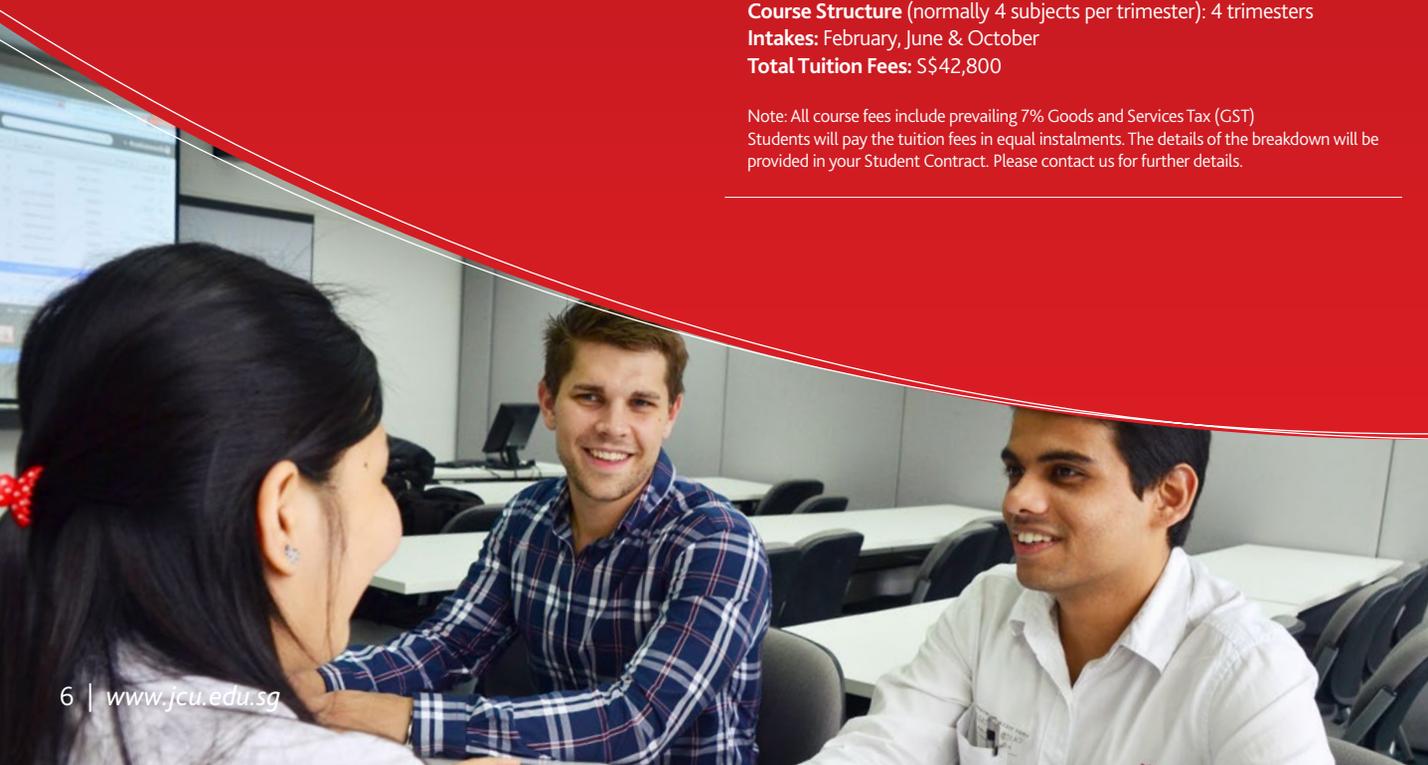
Duration: 16 months

Course Structure (normally 4 subjects per trimester): 4 trimesters

Intakes: February, June & October

Total Tuition Fees: S\$42,800

Note: All course fees include prevailing 7% Goods and Services Tax (GST). Students will pay the tuition fees in equal instalments. The details of the breakdown will be provided in your Student Contract. Please contact us for further details.



Study Program

Core Subjects

ICT Project 1: Analysis and Design
ICT Project 2: Implementation and Commissioning
Advanced E-Security



Major-specific Subjects

Business Informatics

E-Business Technologies
Enterprise Database Systems – Oracle
Advanced Data Mining and Knowledge Discovery
Data Analysis and Decision Modelling
Marketing Management

Computing and Networking

Advanced Data Mining and Knowledge Discovery
Advanced Data Communication Principles
Advanced Mobile Technology
Advanced Human Computer Interaction
Advanced Algorithm Analysis

Interactive Technologies and Games Design

E-Business Technology
Advanced Human Computer Interaction
Advanced Game Design
Advanced Animation Techniques
Intelligent Agents and Simulation



Electives

Students to choose 4 elective subjects



Bridging Subjects

Students who do not meet the entry requirements for the MIT program may need to complete 4 bridging subjects usually taken over 4 months. The subjects are:

Introduction to Programming 1
Introduction to Programming 2
Conceptual Modelling
Web Programming

Majors

Business Informatics encompasses everything from utilizing Information Technology, to making informed decisions in business, to large scale data warehousing or to apps on mobile devices. Students can choose subject from a wide range of areas such as web/mobile technologies, consumer and market integration technologies, database, knowledge management platforms, data mining, market analysis, e-business, business processes, DSS and HCI.

Computing and Networking covers core computer science subjects such as data structures, algorithms, operating systems, network and security, project design and languages. The major will provide students with the qualifications needed to significantly enhance their IT career, or gain quality employment within the IT industry at a senior level.

Interactive Technologies and Games Design focuses on both the front and back end integration of interactive technologies - Web 2.0 applications, Digital Media, Web/Mobile Technologies and platforms, 2D/3D Graphics, Animation, Games Design, Computation Arts, Interactive Visualisation, Autonomous Simulation and Virtual Worlds.





Joint Masters of Information Technology & Business Administration

There is a growing demand for graduates skilled in a range of Information Technologies. In addition, there is worldwide demand for graduates with critical business skills and acumen to fully leverage these technical skills into profitable products and services.

This program provides a path for IT graduates seeking to move into the IT and management area. The objective is to provide theory and practical skills in accounting, financial management, marketing, operations management, e-business technologies, multimedia, programming, networking and software development.

Program Features:

- Prepares students for management responsibilities and career advancement
- Enables students to work more effectively in multidisciplinary teams
- Better equips students to use their IT skills to achieve organisation goals
- A relevant curriculum designed to meet the unique business needs
- Formal business and management education that enhances students' research, report preparation, presentation and people skills

Study Program

Core Subjects

E-Business Technologies
Enterprise Database Systems – Oracle
Advanced E-Security
Advanced Data Mining and Knowledge Discovery
ICT Project 1: Analysis and Design
ICT Project 2: Implementation and Commissioning
Managing Business in a Global Context
Financial Foundation for Managers
Strategy and Leadership
Current Business Issues
Business Plan or Community Project



Additional Subjects

2 Business subjects
1 additional IT subject
2 elective subjects



Bridging Subjects

Students who do not meet the entry requirements for the joint masters program may need to complete 4 bridging subjects usually taken over 4 months. The subjects are:

Introduction to Programming 1
Introduction to Programming 2
Conceptual Modelling
Web Programming

Career prospects

The joint masters program prepares students for a broad range of careers in management, science or as specialist consultants.

Joint MIT/MBA

Duration: 16 months

Course Structure (normally 4 subjects per trimester): 4 trimesters

Intakes: February, June & October

Total Tuition Fees: S\$42,800

Joint MIT/MBA (Extended) with bridging subjects

Duration: 20 months

Course Structure (normally 4 subjects per trimester): 5 trimesters

Intakes: February, June & October

Total Tuition Fees: S\$53,500

Note: All course fees include prevailing 7% Goods and Services Tax (GST). Students will pay the tuition fees in equal instalments. The details of the breakdown will be provided in your Student Contract. Please contact us for further details.



Entry Requirements

Bachelor of Information Technology

Entry Requirements

- The entrance requirements differ from country to country but in general applicants must have satisfactorily completed 12 years of schooling or equivalent.
- Successful completion of the JCU Singapore Foundation program will also satisfy the entrance requirement

For further information please email us at enquiries-singapore@jcu.edu.au

Advanced Standing

- Advanced standing of up to 8 subjects will be granted upon successful completion of JCU Singapore Diploma of IT program.
- Credit exemption of up to 16 subjects may be granted for students with relevant qualifications from recognised institutions.

English Requirements

- IELTS 6.0 (no component lower than 5.5)/TOEFL iBT 79 (with minimum writing score of 19) and above; or
- Satisfactory completion of JCU Singapore English Language Preparatory Program (ELPP).
- Students who have successfully completed 2 years of full-time study in English medium may satisfy the English Language Requirement

Master of Information Technology & Joint Masters of Information Technology and Business Administration

Entry Requirements

- An undergraduate degree in information technology or a related discipline or other qualifications deemed equivalent.

English Requirements

- IELTS 6.0 (no component lower than 5.5)/TOEFL iBT 79 (with minimum writing score of 19) and above; or
- Satisfactory completion of JCU Singapore English Language Preparatory Program (ELPP).
- Students who have successfully completed 2 years of full-time study in English medium may satisfy the English Language Requirement





Min Min Oo

Bachelor of Information Technology

"IT, to me, is an easy choice. After being in marine engineering for a few years, finally I decided to pursue my true passion at JCU Singapore.

Now, it feels really great when my boss introduces me as a JCU IT graduate to our clients. I know that helps to give confidence to our clients and also contributes to the growth of our company.

JCU has given me the IT skills that I need, and I've made a difference by passing on my knowledge to the community."

Your Local Representative:

— James Cook Australia Institute of Higher Learning —

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