

Information Technology

Diploma of **Higher Education (Majoring in Information Technology)**
Bachelor of **Information Technology**
Master of **Information Technology**
Joint Degree:
Master of **Information Technology** - Master of **Business Administration**

The Singapore campus of James Cook University

Established in 2003

The Singapore campus of James Cook University is fully owned by James Cook University Australia, which is ranked in the top 2%* of universities in the world. James Cook University Australia established its Singapore campus in 2003 as part of its expressed intent of internationalising its activities and offers a suite of university level programs at the Singapore campus covering the areas of Business, Information Technology, Psychology, Education, Accounting, Arts, Aquaculture, Environmental Science, Games Design, Tourism and Hospitality.

James Cook University offers Higher Degree by Research programs such as Doctor of Philosophy, Master of Philosophy and pathways to a higher degree.

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

The Singapore campus of James Cook University is located at Sims Drive. The campus provides 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, financial lab and access to a variety of sporting facilities.

James Cook University Inter-campus Mobility Program

James Cook University 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 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.

EduTrust Star

James Cook University has the highest level of quality assurance in Singapore for Private Education Institutions. This is known as EduTrust Star and is a symbol of recognition for outstanding achievement. EduTrust Star is awarded to those institutions for attaining a commendable level of performance in managing their institutions and providing an outstanding quality of education and welfare for their students.

James Cook University is the first organisation with EduTrust Star. By obtaining this award for the second time in 2019, James Cook University has displayed its commitment and focus as a student centric educational institution.

SQC STAR

James Cook University has also been awarded the Singapore Quality Class STAR (SQC STAR). The SQC STAR recognises SQC organisations that have made further improvement in their business excellence journey.

*The 2019 Academic Ranking of World Universities (ARWU)





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

James Cook University is EduTrust Certified. The EduTrust certification scheme is administered by the Committee for Private Education (CPE), a part of SkillsFuture Singapore (SSG). EduTrust requires all students to be covered under a Fee Protection Scheme. In James Cook University, 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. James Cook University will advise in the Standard Student Contract the total amount of insurance payable.

For more details please visit the Committee for Private Education (CPE), a part of SkillsFuture Singapore (SSG) website: www.cpe.gov.sg

Diploma of Higher Education (Majoring in Information Technology)

Students with Year 12, GCE 'A' Level or its equivalent but do not meet direct entry to a degree program are eligible to pursue this qualification.

Students in this course will be given a tailored program within the allocated study period to acquire the necessary skills needed to progress to an undergraduate degree program.

The Diploma of Higher Education (Information Technology) will also provide an exit point for early graduates who wish to undertake advanced skills or paraprofessional work in the industry.

Upon completion, students may be given advanced standing of 8 subjects into the Bachelor of Information Technology Program.





Study Program

Students are required to complete 8 subjects
(24 credit points)

8 subjects (24 credit points):

- Developing Academic Skills (Core)
- Learning in a Digital Environment (Core)
- Essential Maths (Core)
- Business Communication
- Fundamentals of Problem Solving and Programming I
- Internet Fundamentals
- Web Design and Development
- Design Thinking

Duration: 8 months full time

Course Structure: 2 trimesters per year
(4 subjects per trimester)

Intakes: March, July, November

Total Tuition Fees: S\$19,688 (International)
S\$18,832 (Domestic)*

**Fees apply to all Singapore residents (Singapore Citizens, Permanent Residents and all pass holders excluding those holding a Student Pass).*

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.



Bachelor of Information Technology

This course brings together the knowledge and skills that are essential for professional IT careers along with subjects in interactive visualisation, games, big data and data mining, interactive 2D/3D graphics and web technologies, mobile technologies, programming and design thinking, and programming.

Bachelor of Information Technology graduates will be able to:

- Demonstrate essential knowledge for a career in technology related professions and practice;
- Synthesise industry standard and underlying principles and concepts for decision making;
- Critically evaluate data & resources in the context or relevant academic literature;
- Apply critical thinking to address IT related issues;
- Demonstrate the ability to work collaboratively

This course is accredited by the Australian Computer Society (ACS). Graduates are eligible to apply to join the ACS.

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).

Duration: 2 years full time

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

Intakes: March, July, November

Total Tuition Fees: S\$59,064 (International)
S\$56,496 (Domestic)*

**Fees apply to all Singapore residents (Singapore Citizens, Permanent Residents and all pass holders excluding those holding a Student Pass).*

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

This course is composed of 24 subjects including core subjects and elective as per the study plan.

Core Subjects

- Fundamentals of Problem Solving and Programming I
- Internet Fundamentals
- Design Thinking
- Preparatory Mathematics
- Web Design and Development
- Information Processing and Visualisation
- Database Modelling
- Collective Intelligence and Entrepreneurship
- Programming II
- Programming III
- Network Security
- Design Thinking and Creative IT Industries
- e-Strategic Management
- Content Management Systems
- Data Mining
- Information Security
- Design Thinking and Project Management
- Mobile Computing
- Professional Internship or Multi-Disciplinary Project or Independent Project



Select a minor from 'Computer Science and Networking' or 'Human Computer Interaction and Games Design'

Computer Science and Networking Minor:

- Introductory Machine Learning and Data Science
- Network Forensics and Data Communications
- Algorithms and Data Structures
- Advanced Software Engineering

Human-Computer Interaction and Games Design Minor:

- Gamification
- 3D Modelling and Animation
- Game Design and Technologies
- Game Engine and Simulation

Or Select Elective subjects offered

Career prospects:

Graduates will have the expertise to pursue exciting careers as project manager, network administrator and designer, system analyst, software developer, application developer, IT researcher, IT manager, system administrator, multimedia developer, game designer/tester/reviewer, simulation designer, enterprise architect, consultant, story boarder, web designer, and mobile app developer.



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).

Duration: 16 months full time

Course Structure: 4 trimesters

(normally 4 subjects per trimester)

Intakes: March, July, November

Total Tuition Fees: S\$51,360 (International)
S\$49,648 (Domestic)*

**Fees apply to all Singapore residents (Singapore Citizens, Permanent Residents and all pass holders excluding those holding a Student Pass).*

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

This course is composed of 16 subjects including core subjects and elective as per the study plan.

Foundation Subjects

Internet Fundamentals
Problem Solving and Programming I
Database Modelling
Web Design and Development



Core Subjects (All majors)

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

Core Subjects (Major specific)

Business Informatics

E-Business Technologies
Enterprise Database Systems - Oracle
Advanced Databases and Applications
Data Analysis and Decision Modelling
Data Mining

Computing and Networking

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

Interactive Technologies and Games Design

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



Plus four elective subjects

Majors

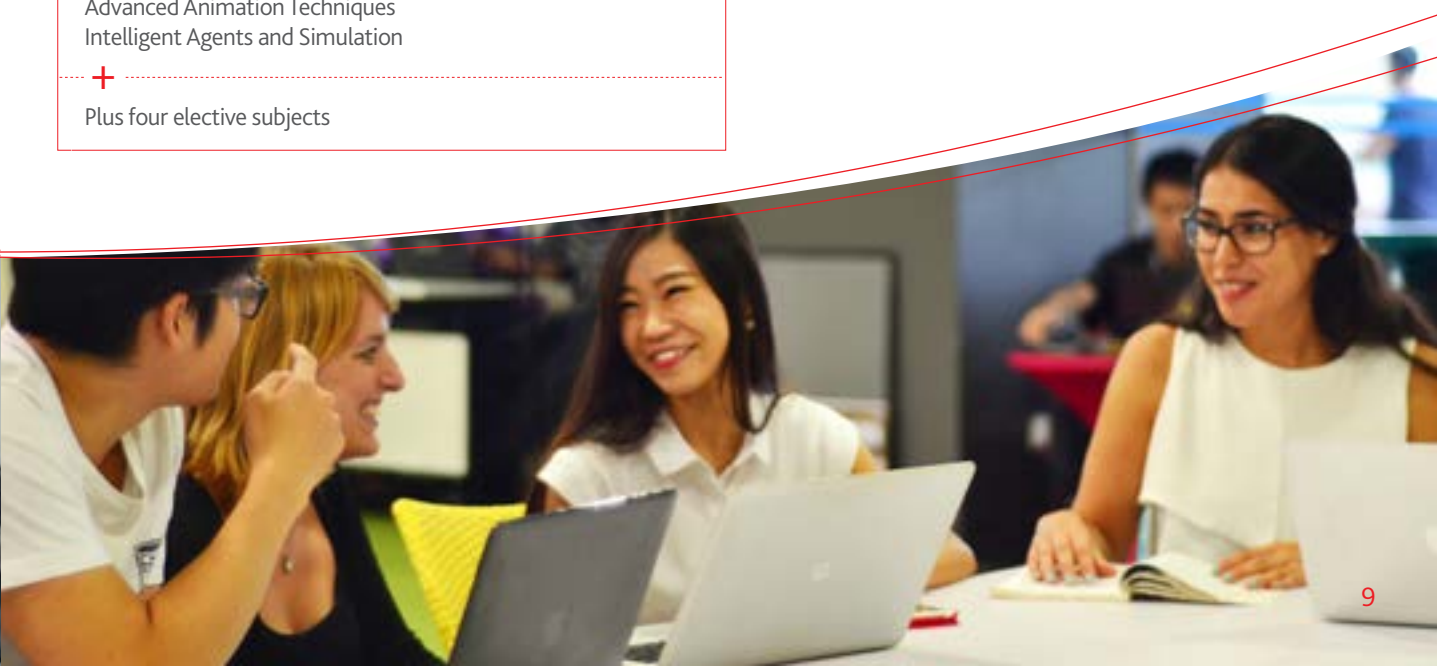
Business Informatics is a specialist area of IT that combines information technology, management and business. It encompasses everything from utilising Information Technology, to making informed decisions in business, or to large scale data warehousing.

The **Computing and Networking** major is designed for information technology and computer science graduates and recognised IT professionals who seek to further their knowledge and skills in advanced computing, programming, information systems and networking.

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.

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 - Master of 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 joint degree 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

Students need to complete 16 subjects including core and elective subjects as per the study plan

Core Subjects

- ICT Project 1: Analysis and Design
- ICT Project 2: Implementation and Commissioning
- E-Business Technologies
 - or Advanced Human Computer Interaction
- Enterprise Database Systems - Oracle
 - or Advanced Data Communications Principles
- Advanced E-Security
- Data Mining
- Corporate Strategy
- Applied Research Project
- Business Innovation and Technology Management
- Managing Strategic Resources and Operations
- Leadership
- Marketing and Customer Engagement
 - or Marketing Management
- Innovation and Entrepreneurship
- Leading and Managing Organisational Change



Plus two elective subjects

Career prospects:

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

Duration: 16 months full time

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

Intakes: March, July, November

Total Tuition Fees: S\$51,360 (International)
S\$49,648 (Domestic)*

**Fees apply to all Singapore residents (Singapore Citizens, Permanent Residents and all pass holders excluding those holding a Student Pass).*

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.



Matthew Cabinian

Diploma of Higher Education
(Information Technology)

"I chose to study in JCU because the campus offered one of the best IT degree courses.

I learnt how to prepare my CVs, ePortfolios for any future interviews, how to write project reports and references.

I also learnt how to create a website from scratch, the right way to do research and apply it when designing projects."

Entry Requirements

Diploma of Higher Education

Entry Requirements

Year 12, GCE 'A' Level qualifications or its equivalent (who do not meet direct entry requirement to a degree program).

Exit Requirement

- Pass all eight subjects

English Requirements

- Applicants of non-English speaking backgrounds must meet the English language proficiency requirements of IELTS 5.5 (no component lower than 5.0) / TOEFL (Internet Based) 56 (no component less than 16) / Pearson PTE Academic 46 (no component less than 42); or
- Satisfactory completion of James Cook University Singapore English Language Preparatory Program (ELPP); or
- Successful completion of other qualifications completed in English Language deemed comparable to Australian standards within the last two years on a case-by-case basis

Bachelor of Information Technology

Entry Requirements

- The entry requirements differ from country to country but in general applicants must have satisfactorily completed 12 years of schooling or equivalent
- Successful completion of the James Cook University Foundation Program will also satisfy the entry requirement

Pre-requisite

- Successful completion of English Language subject or any language rich subject deemed comparable to Australian standards on a case-by-case basis which includes GCE A level Grade D or higher in English or any language rich subject, GCE AS level Grade C or higher in English or any language rich subject, or GCE O level Grade C or higher in English subject.

For further information email admissions-singapore@jcu.edu.au

Advanced Standing

- Advanced standing of up to 8 subjects will be granted upon successful completion of James Cook University Diploma of Higher Education (Information Technology) program.
- Credit exemption of up to 16 subjects may be granted for students with relevant qualifications from recognised institutions.

English Requirements

- Applicants of non-English speaking backgrounds must meet the English language proficiency requirements of IELTS 6 (no component lower than 6.0) / TOEFL (Internet Based) 74 (no component less than 18) / Pearson PTE Academic 52 (no component less than 52); or
- Satisfactory completion of James Cook University Singapore English Language Preparatory Program (ELPP); or
- Successful completion of other qualifications completed in English Language deemed comparable to Australian standards within the last two years on a case-by-case basis



Entry Requirements

- **Master of Information Technology**
Joint Degree:
- **Master of Information Technology - Master of Business Administration**

Entry Requirements

- Successful completion of study equivalent to an Australian undergraduate bachelor award.

English Requirements

- Applicants of non-English speaking backgrounds must meet the English language proficiency requirements of IELTS 6.5 (no component lower than 6.0) / TOEFL (Internet Based) 86 (no component less than 21) / Pearson PTE Academic 58 (no component less than 54); or
- Satisfactory completion of James Cook University Singapore English Language Preparatory Program (ELPP); or
- Successful completion of other qualifications completed in English Language deemed comparable to Australian standards within the last two years on a case-by-case basis

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Advanced Standing

Advanced Standing from 4 of the Foundation subjects can be considered for:

- Applicants with a minimum 4 years full-time equivalent professional work experience in information and communication sector.
- Applicants with undergraduate degree from cognate discipline such as IT Cognate disciplines: Information Technology, Computer Science, Information Systems or other disciplines where students will have completed study relating to information and communication technologies.*

**Not applicable for joint degree programs.*

Advanced standing can also be considered for:

- Applicants with a four-year relevant undergraduate program
- Previous tertiary study where appropriate





Low Yee Ling Elaine

Bachelor of Information Technology

"I was personally attracted to JCU by the prospect of being able to learn game design and other key aspects of IT to widen my horizons and provide me with more career options.

I was delighted to discover that at JCU I also learn statistics and business fundamentals.

I have also attended important conferences and events that have widened my networking circle, such as the Retroinspired Game Jam that was organized by and held at the Singapore campus."

Your Local Representative:

James Cook University

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