



Curtin Mauritius

BACHELOR OF SCIENCE

COMPUTING (INFORMATION TECHNOLOGY)

Computer scientists, software engineers, programmers and other computing professionals are experts on how technology works and how computing can address even the most complicated and intricate problems.

ABOUT THE DEGREE

This course will provide you with the skills and knowledge you need for a successful career in the rapidly evolving information and communications technology industry. In your first year, you will develop your programming skills and study the fundamental theoretical knowledge of computing. Topics covered will include C++, Java, Linux and object oriented programming.

From your second year, you will specialise in the Information Technology stream. In this stream you will learn the technological and applied aspects of computing, with less emphasis on theory.

You will study system programming, software design and engineering, networking (including the internet and the web), artificial intelligence for decision support and graphics.

ABOUT CURTIN UNIVERSITY

Curtin University is an innovative, global university, with campuses in Perth, Dubai, Singapore, Malaysia and Mauritius. We are known for our high-impact research, strong industry partnerships and commitment to preparing students for jobs of the future.

Curtin is ranked in the top one per cent of universities worldwide in The Academic Ranking of World Universities (ARWU) 2017. We are also highly rated in the 2017 QS World University Rankings:

- 22nd in the world for universities under the age of 50
- 5-star overall excellence rating
- 2nd in the world for Mineral and Mining Engineering
- 42nd in the world for Earth and Marine Sciences.

Make tomorrow better.

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COURSE ESSENTIALS

BACHELOR OF SCIENCE (COMPUTING) - INFORMATION TECHNOLOGY

Course entry requirements

- Mathematics is essential and calculus is desirable
- Satisfy the minimum academic entry requirements
- Meet the minimum English competency level

Foundation Program

Candidates who do not meet all entry requirements can enrol in the Foundation Program in order to gain admission to the bachelor degree

Duration

The programme is run over three years (six semesters)

Intake

February and July

Application procedures

Candidates must complete the application form available at Curtin Mauritius Future Students Centre and must submit relevant copies of the following documents:

- Copies of educational qualifications
- Two passport - size photographs
- Copy of National Identity Card and Birth Certificate

(The originals of the above documents are needed for certification purposes)

Career Opportunities:

This course can help you become a/an:

- > IT algorithm designer
- > Software developer
- > Cyber security professional
- > Web applications developer
- > IT analyst
- > IT support professional
- > Programmer

COURSE STRUCTURE

| YEAR 1 Semester 1 | UNIT CODE |
|---------------------------------------|-----------|
| Introduction to Software Engineering | ISAD1000 |
| Science Communications | COMS1000 |
| Statistical Data Analysis | STAT1002 |
| Object Oriented Program Design | COMP1001 |
| Linear Algebra 1 | MATH1015 |
| YEAR 1 Semester 2 | UNIT CODE |
| Unix and C Programming | COMP1000 |
| Data Structures and Algorithms | COMP1002 |
| Database Systems | ISYS1001 |
| Foundations of Computer Science | COMP1006 |
| YEAR 2 Semester 1 | UNIT CODE |
| Operating Systems | COMP2006 |
| Computer Communications | CNCO2000 |
| Unix Systems Programming | COMP2002 |
| Object Oriented Software Engineering | COMP2003 |
| YEAR 2 Semester 2 | UNIT CODE |
| Computer Graphics | COMP2004 |
| OR | |
| Penetration Testing and Defence | ISEC3002 |
| Computing Topics | COMP2005 |
| Elective | |
| Elective | |
| YEAR 3 Semester 1 | UNIT CODE |
| Human Computer Interface | ICTE3002 |
| Capstone Computing Project 1 | ISAD3000 |
| Fundamental Concepts of Data Security | ISEC2001 |
| Distributed Computing | COMP3008 |
| YEAR 3 Semester 2 | UNIT CODE |
| Capstone Computing Project 2 | ISAD3001 |
| Business Internship | MKTG3009 |
| Network Systems Design | CNCO3001 |
| Advanced Computer Communications | CNCO3002 |

For more information:

curtinmauritius.ac.mu

PLEASE CONTACT THE
FUTURE STUDENTS CENTRE

study@curtinmauritius.ac.mu

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Disclaimer: Please note that Curtin Mauritius reserves the right to change the content and method of assessment, to change or alter tuition fees and any unit of study, to withdraw any unit enrolment in any unit or program and/ or to vary arrangements for any programme

Course Structure Disclaimer: Curtin University reserves the right to alter the internal composition of any course to ensure learning outcomes retain maximum relevance. Any changes to the internal composition of a course will protect the right of students to complete the course within the normal time frame and will not result in additional cost to students through a requirement to undertake additional units.

Note: To qualify for a degree 600 Credits (or 24 study units) must be obtained, within the appropriate combination of study units as prescribed in the curriculum. No exit certificate is awarded.

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