

Handbook 2020

Coursecode

B1205A

BACHELOR OF SCIENCE - SCHOOL OF INFORMATION
TECHNOLOGY (SECOND AWARD)

Murdoch University

Correct as at: 14 December 2019 at 6:24am

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TEQSA Number PRV12163; CRICOS Provider Code: 00125J

Cancellation of Courses, Majors, Minors and Units

The University reserves the right to cancel, without notice, any course, major, minor or unit if the number of students enrolled falls below limits set by the University or in other unforeseen circumstances.

Alternative Formats

Handbook home page:

<http://handbook.murdoch.edu.au>

This publication can also be provided in alternative formats by contacting the Equity and Social Inclusion Office at Murdoch University

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ISSN 0815-9068

Published by

University Secretary's Office

Murdoch University



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Group	Course	Offerings
Computer Science	Computer Science (BSc)	<ul style="list-style-type: none"> • Murdoch campus (internal) (no new admissions from 2015 at this location for first-year commencing students) • Murdoch campus (external) (no new admissions from 2015 at this location for first-year commencing students)

COMPUTER SCIENCE

COMPUTER SCIENCE (BSC)

Duration: 3 years full-time or part-time equivalent

Mathematics and Statistics

Special Requirements:

There may be a reduction in choice of units if completing this course in the external mode. Individual units may require access to specific nominated software.

Availability:

- Murdoch campus (internal) (no new admissions from 2015 at this location for first-year commencing students)
- Murdoch campus (external) (no new admissions from 2015 at this location for first-year commencing students)

Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Employment Prospects:

Excellent opportunities in business, industry and government as programmers, systems analysts, database administrators, computer systems and network managers, user support officers and software engineers.

The Computer Science major is designed to provide students with a thorough understanding of the theory, methods and systems used by the information technology industry. Required units cover the major areas of software development, computer technology, systems applications and software engineering.

Course Codes: B1205 B1205A

Bachelor of Science (BSc) in Computer Science

Course Structure - 72 credit points

Units in this structure may no longer be available at all course locations and, where appropriate, alternative units have been provided. Students are required to satisfy the total credit point value of both the degree and the major in order to graduate; this may require that additional units are taken, either as part of the major or as General Electives. To accommodate students impacted by this change, up to 2 credit points from the total credit point value of the degree (incorporating the major) may be waived. For further information, see https://myanswers.custhelp.com/app/answers/detail/a_id/1017/

Part I - 24 credit points

Foundation Unit - 3 credit points

From 2014, Foundation units will no longer be offered at the Murdoch Campus. Students who have not yet successfully completed a Foundation unit will be required to enrol in the following Transition Unit.

BSC100 Building Blocks for Science Students - 3 points
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

The following unit is no longer available - contact the Academic Chair for advice:
Students enrolled at the Dubai or Kaplan campus will enrol in:

FDN107 Next Life - 3 points
NA 2020

Core Units - 15 credit points

The following unit is no longer available - contact the Academic Chair for advice:

ICT102 Introduction to Computer Science - 3 points
NA 2020

The following unit is no longer available - contact the Academic Chair for advice:

ICT103 Introduction to Data Communications - 3 points
NA 2020

The following unit is no longer available - contact the Academic Chair for advice:

ICT104 Principles of Computer Science - 3 points
NA 2020

The following unit is no longer available - contact the Academic Chair for advice:

ICT106 Fundamentals of Computer Systems - 3 points
NA 2020

The following unit is no longer available - contact the Academic Chair for advice:

MAS167 Computational Mathematics - 3 points
DUBAI-ISC: TMD-internal

OR

MAS162 Foundations of Discrete Mathematics - 3 points
MURDOCH: S1-internal, S1-external, S2-internal, S2-external
DUBAI-ISC: TMD-internal

General Electives - 6 credit points

Select from any 100-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

Part II - 48 credit points

Core Units - 24 credit points

The following unit is no longer available - contact the Academic Chair for advice:

ICT209 Data Structures and Abstractions - 4 points
NA 2020

The following unit is no longer available - contact the Academic Chair for advice:

ICT218 Databases - 4 points
NA 2020

The following unit is no longer available - contact the Academic Chair for advice:

ICT231 Systems Analysis and Design - 4 points
NA 2020

The following unit is no longer available - contact the Academic Chair for advice:

ICT306 Software Architectures - 4 points
NA 2020

The following unit is no longer available - contact the Academic Chair for advice:

ICT310 Operating Systems and Systems Programming - 4 points
NA 2020

The following unit is no longer available - contact the Academic Chair for advice:

ICT333 Information Technology Project - 4 points
NA 2020

General Electives - 24 credit points

Select from any 200- to 400-level units offered by the University, subject to individual unit prerequisites. Students are advised to consider using General Elective points to meet the requirements of a second major or minor. Any recommended double majors and minors will be included in the major's description.

PREREQUISITES

Building Blocks for Science Students (BSC100)

Enrolment in a Bachelor of Science, Bachelor of Animal Science, Bachelor of Environmental Management, Bachelor of Environmental Science, Bachelor of Extractive Metallurgy, Bachelor of Forensics, Bachelor of Information Technology Management, Bachelor of Marine Science, Bachelor of Sports Science, Bachelor of Technology in Engineering Technology, Bachelor of Sustainability, Bachelor Of Sport And Exercise Science, Bachelor of Sport and Exercise Science + Psychology (BSportExSc, BSc) or Bachelor Of Sport And Exercise Science/Graduate Diploma In Clinical Exercise Physiology, B1355 Bachelor of Laws / Bachelor of Science (Psychology)

Foundations of Discrete Mathematics (MAS162)

MAS164 Fundamentals of Mathematics/MAS182/MAS161 OR a final scaled score of 55% or more in ATAR Mathematics Applications or WACE Mathematics 2C/2D OR a final scaled score of 50% or more in ATAR Mathematics Methods or WACE Mathematics 3A/3B (or higher) OR equivalent.

Personal Study Plan

Unit Sets:

Year	Semester 1	Semester 2
1		
2		
3		
4		