

Handbook 2020

Coursecode

B1317

Murdoch University

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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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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.

Group	Course	Offerings
Business Information Systems	Business Information Systems (BSc)	<ul style="list-style-type: none"> • Murdoch campus (internal) • Murdoch campus (external) • Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English) • Murdoch University Dubai (UAE) ['DUBAI-ISC'] (internal) (language of instruction: English)

BUSINESS INFORMATION SYSTEMS

BUSINESS INFORMATION SYSTEMS (BSC)

Mathematics and Statistics

Course Codes: B1317 B1317A

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

Recommended Double Majors:

Computer Science; Cyber Security and Forensics; Internetworking and Network Security

Availability:

- Murdoch campus (internal) Murdoch campus (external) Kaplan Higher Education Institute and Kaplan Higher Education Academy (Singapore) ['KAPLAN-SGP'] (internal) (language of instruction: English) Murdoch University Dubai (UAE) ['DUBAI-ISC'] (internal) (language of instruction: English)

Information Systems is the study of information generation, communication, storage, and application in the context of organised human activity. The increasing penetration of information technology into everyday organisational activity means that professionals in many areas, from management to engineering, increasingly need an understanding of information systems. The contribution of information systems to the functioning of organisations, the design and management of such systems and the development of systems to assist in other professional roles is emphasised in the Business Information Systems degree.

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.

Murdoch's Bachelor of Science is a flexible degree which gives you the opportunity to build deep understanding and practical experience as well as to supplement your studies by engaging with industry and the community on relevant problems. You can even undertake studies through another discipline to broaden your understanding of the way in which science operates in relation to social, business, health and policy environments.

Admission Requirements (Onshore):

As per normal undergraduate admission requirements.

Employment Prospects:

Graduates typically find employment as business analysts. Graduates combining Business Information Systems with another major will experience enhanced employment prospects in that area.

Bachelor of Science (BSc) in Business Information Systems

Course Structure - 72 credit points

Part I - 24 credit points

Year 1 - 24 credit points

Transition Unit - 3 credit points

ICT100 Transition to IT - 3 points
MURDOCH: S1-internal, S1-external, S2-internal, S2-external

OR (for Kaplan and Dubai students only)

BBS100 Academic Skills for Business - 3 points
DUBAI-ISC: TJD-internal, TMD-internal, TSD-internal

Breadth Unit for Degree - 3 credit points

MSP100 Career Learning: Managing Your Career - 3 points
MURDOCH: S1-external, S2-external
DUBAI-ISC: TJD-internal, TMD-internal, TSD-internal

Core Units - 15 credit points

ICT158 Introduction to Information Systems - 3 points
MURDOCH: S2-internal, S2-external
DUBAI-ISC: TJD-internal, TSD-internal

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

ICT159 Foundations of Programming - 3 points
MURDOCH: S1-internal, S1-external
DUBAI-ISC: TJD-internal, TMD-internal, TSD-internal

ICT169 Foundations of Data Communications - 3 points
MURDOCH: S2-internal, S2-external
DUBAI-ISC: TMD-internal
KAPLAN-SGP: TMA-internal

ICT170 Foundations of Computer Systems - 3 points
MURDOCH: S2-internal, S2-external
DUBAI-ISC: TJD-internal, TSD-internal

General Electives - 3 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

University-Wide Breadth Unit - 3 credit points

Select from the prescribed list of University-Wide Breadth Units. A unit cannot be used to satisfy both this Breadth Unit requirement and the requirements of a major or minor. If taken at 100 level the unit(s) will be attributed to Part I. Note that no more than 30 credit points at Part I may be credited towards course completion requirements.

Year 2 - 21 credit points

Research Skills Unit - 3 credit points

BSC203 Introduction to ICT Research Methods - 3 points
MURDOCH: S1-internal, S1-external
DUBAI-ISC: TMD-internal
KAPLAN-SGP: TMA-internal

Core Units - 9 credit points

ICT284 Systems Analysis and Design - 3 points
MURDOCH: S1-internal, S1-external
DUBAI-ISC: TMD-internal
KAPLAN-SGP: TMA-internal

ICT285 Databases - 3 points
MURDOCH: S2-internal, S2-external
DUBAI-ISC: TJD-internal, TSD-internal
KAPLAN-SGP: TJA-internal, TSA-internal

ICT292 Information Systems Management - 3 points
MURDOCH: S2-internal, S2-external
DUBAI-ISC: TMD-internal
KAPLAN-SGP: TMA-internal

General Electives - 9 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.

Year 3 - 24 credit points

Research Skills Unit - 3 credit points

BSC301 Applied Research Skills in ICT - 3 points
MURDOCH: S1-internal, S1-external
DUBAI-ISC: TJD-internal, TSD-internal
KAPLAN-SGP: TJA-internal, TSA-internal

Core Units - 12 credit points

ICT393 Advanced Business Analysis and Design - 3 points
 MURDOCH: S2-internal, S2-external
 DUBAI-ISC: TMD-internal
 KAPLAN-SGP: TMA-internal

ICT301 Enterprise Architectures - 3 points
 MURDOCH: S2-internal, S2-external
 DUBAI-ISC: TJD-internal, TSD-internal
 KAPLAN-SGP: TJA-internal, TSA-internal

ICT394 Business Intelligence Application Development - 3 points
 MURDOCH: S1-internal, S1-external
 DUBAI-ISC: TJD-internal, TSD-internal
 KAPLAN-SGP: TJA-internal, TSA-internal

ICT302 IT Professional Practice Project - 3 points
 MURDOCH: S1-internal, S1-external, S2-internal, S2-external
 DUBAI-ISC: TJD-internal, TMD-internal, TSD-internal
 KAPLAN-SGP: TJA-internal, TMA-internal, TSA-internal

General Electives - 9 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**Academic Skills for Business (BBS100)**

Enrolment in Bachelor of Business, Bachelor of Commerce, Bachelor of Economics, Bachelor of Business in Applied Accounting, or Bachelor of Digital Marketing and Media, Bachelor of Business in Sustainability, or Bachelor of Science, or Bachelor of Arts

Advanced Business Analysis and Design (ICT393)

ICT231/ICT284 Systems Analysis and Design.

Applied Research Skills in ICT (BSC301)

BSC203 Introduction to ICT Research Methods and enrolment in one of the following Information Technology majors: Computer Science or Business Information Systems or Cyber Forensics and Information Security or Games Software Design and Production, or Games Technology or Internetworking and Network Security or Mobile and Web Application Development.

Business Intelligence Application Development (ICT394)

ICT285/ICT218 Databases.

Career Learning: Managing Your Career (MSP100)

Nil.

Databases (ICT285)

ICT102 Introduction to Computer Science or ICT159 Foundations of Programming or ICT170 Foundations of Computer Systems.

Enterprise Architectures (ICT301)

ICT292 Information Systems Management OR ICT284 Systems Analysis and Design

Foundations of Computer Systems (ICT170)

Nil.

Foundations of Data Communications (ICT169)

Nil.

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.

Foundations of Programming (ICT159)

Nil.

IT Professional Practice Project (ICT302)

Students must be enrolled in an IT major and have accumulated 56 credit points. Students should also have passed ICT290 Games Design and Programming, OR ICT284 Systems Analysis and Design and ICT285 Databases.

Information Systems Management (ICT292)

ICT158 Introduction to Information Systems OR ICT107 Principles Information Systems OR ICT170 Foundations of Computer Systems.

Introduction to ICT Research Methods (BSC203)

BSC100 Building Blocks for Science and enrolment in one of the following Information technology majors: Computer Science or Business Information Systems or Cyber Forensics and Information Security or Games Software Design and Production, or Games Technology or Internetworking and Network Security or Mobile and Web Application Development.

Introduction to Information Systems (ICT158)

Nil.

Systems Analysis and Design (ICT284)

ICT102 Introduction to Computer Science OR ICT159 Foundations of Programming OR ICT107 Principles of Information Systems OR ICT158 Introduction to Information Systems or enrolment in a postgraduate IT course.

Transition to IT (ICT100)

Enrolment in the Bachelor of IT & Business or the Bachelor of Science (Information Technology).

Personal Study Plan

Unit Sets:

Year	Semester 1	Semester 2
1		
2		
3		
4		