

# S379 BACHELOR OF DATA SCIENCE

## FACULTY OF SCIENCE, ENGINEERING AND BUILT ENVIRONMENT



FOR STUDENTS COMMENCING TRIMESTER 1 2023

Last updated 14/06/2023

When you first enrol via StudentConnect and go through the enrolment steps, you may be able to simply confirm any units that are pre-populated for you. You can also add any that you need to do, as part of your first year's enrolment – by using the information on this map and in the Handbook.

You must also complete the following compulsory zero (0) credit point units: STP010 Career Tools for Employability (0 credit points)  
AND STP050 Academic Integrity (0 credit points)  
AND SIT010 Safety Induction Program (0 credit points)

<b>YEAR 1</b> Year: 2023	Trimester 1				
	Trimester 2				
	Trimester 3				

<b>YEAR 2</b> Year: 2024	Trimester 1				
	Trimester 2				
	Trimester 3				

<b>YEAR 3</b> Year: 2025	Trimester 1				
	Trimester 2				
	Trimester 3				

SIT330, SIT343 - available from 2024

SIT306, SIT344, SIT374, SIT378 - Offered in Trimester 1, trimester 2 and trimester 3

SIT374, SIT378 - Students are recommended to undertake SIT374 and SIT378 in consecutive trimesters.

Students should seek advice from the unit chair if they are unable to complete SIT374 and SIT378 consecutively.

### S379 COURSE RULES

- Must pass 24 credit points for course
- Must pass ALL units in {SIT010, STP010, STP050}
- Must pass ALL units in {SIT102, SIT103, SIT111, SIT112, SIT123, SIT191, SIT192, SIT202, SIT220, SIT221, SIT223, SIT232, SIT292, SIT307, SIT319, SIT330}
- Must pass 14 credit points at levels {2, 3}
- Must pass 6 credit points at level {3}
- Must pass ALL units in {SIT306, SIT374, SIT378} OR Must pass ALL units in {SIT344}

FOR USE ONLY WHEN UNDERTAKING A CONSULTATION WITH A STUDENT ADVISER:

Student ID: _____		Name: _____		
Deakin email: _____		Preferred contact no: _____		
Year commenced:	Period commenced:	eCOE (if applicable):	Campus: _____	Mode: _____
Student adviser: _____				Date: _____

Notes

GENERAL INFORMATION

This course map is a guide only. You must also ensure you meet the course rules and structure as set out in the official [University Handbook](#) of the year you commenced your course. This course map has been created to be used electronically.

Not all units are available in all study periods or mode of delivery.

- Full time study is typically three to four units (or credit points) each study period.
- Part time study is typically one to two units (or credit points) each study period – part time study will extend the duration of your studies.
- Trimester 3 is typically an optional study period - unless it's your first study period and/or a compulsory study period for your course.

Unit options can be found in the '[Advanced Unit Search](#)' in the most current year's University Handbook.

If you have applied for or received credit for units as recognition of prior learning (RPL), it may alter the units you need to study.

Please seek advice from a Student Adviser in StudentCentral if you have any queries or need help understanding your course structure and unit options.

S379 BACHELOR OF DATA SCIENCE MINOR UNIT SETS

<b>CLOUD TECHNOLOGIES (MN-S000011)</b>
<a href="#">SIT233 Cloud Computing</a>
<a href="#">SIT314 Software Architecture and Scalability for Internet-Of-Things</a>
<a href="#">SIT323 Cloud Native Application Development</a>
<a href="#">SIT325 Advanced Network Security</a>

Completion Rule

- Must pass all unit(s) in {SIT233, SIT314, SIT323, SIT325}

<b>CYBER SECURITY (MN-S000015)</b>
<a href="#">SIT182 Real World Practices for Cyber Security</a>

[SIT218 Secure Coding](#)

[SIT284 Cyber Security Management](#)

[SIT379 Ethical Hacking](#)

Completion Rule

- Must pass all unit(s) in {SIT182, SIT218, SIT284, SIT379}

### EDUCATION (MN-A000066)

[EDU101 Education, Knowledge and Society](#)

[EDU102 From Aristotle to Atars: the History, Philosophy and Future of Education](#)

[EDU201 Educational Psychology](#)

[EDU202 Educators and Learners](#)

[EDU203 Literacy, Numeracy and Education](#)

[EDU301 Culture, Diversity and Participation in Education](#)

[EDU302 Education and Humanitarian Development](#)

[EDU303 Education, Communication and Technology](#)

Completion Rule

- Must pass 4 credit points in {EDU101, EDU102, EDU201, EDU202, EDU203, EDU301, EDU302, EDU303}

Note(s)

No more than 2 credit points at level 3.

### EMBEDDED SYSTEMS (MN-S000005)

[SIT122 Robotics Studio](#)

[SIT123 Data Capture Technologies](#)

[SIT210 Embedded Systems Development](#)

[SIT329 Advanced Embedded Systems](#)

Completion Rule

- Must pass all unit(s) in {SIT122, SIT123, SIT210, SIT329}

### FINANCE (MN-M30005)

[MAF101 Fundamentals of Finance](#)

[MAF202 Money and Capital Markets](#)

[MAF203 Business Finance](#)

[MAF306 International Finance and Investment](#)

## MAF307 Equities and Investment Analysis

### Completion Rule

- Must pass 1 unit(s) in {MAF101}
- Must pass 3 unit(s) in {MAF202, MAF203, MAF306, MAF307}

## **FULL STACK DEVELOPMENT (MN-S000012)**

SIT120 Introduction to Responsive Web Apps

SIT305 Mobile Application Development

SIT313 Full Stack Development: Secure Frontend Applications

SIT331 Full Stack Development: Secure Backend Services

### Completion Rule

- Must pass all unit(s) in {SIT120, SIT305, SIT313, SIT331}

## **HEALTH ANALYTICS (MN-S000017)**

HBS107 Understanding Health

HBS108 Health Information and Data

HSH205 Epidemiology and Biostatistics 1

HSH216 Epidemiology and Biostatistics 2

### Completion Rule

- Must pass 4 unit(s) in {HBS107, HBS108, HSH205, HSH216}

## **HUMAN RESOURCE MANAGEMENT (MN-M30012)**

MMH230 Fundamentals of Human Resource Management

MMH231 Human Resource Practice

MMH232 Human Resource Development

MMH349 Employment Relations

MMM132 Management

### Completion Rule

- Must pass 3 unit(s) in {MMH230, MMH231, MMH232, MMH349}
- Must pass 1 unit(s) in {MMM132}

## **MARKETING (MN-M30008)**

MMK101 Marketing Fundamentals

MMK251 Services Marketing

MMK266 Consumer Behaviour

MMK295 Integrated Marketing Communications in the Digital Age

MMK368 Business Marketing

Completion Rule

- Must pass 1 unit(s) in {MMK101}
- Must pass 3 unit(s) in {MMK251, MMK266, MMK295, MMK368}

**PSYCHOLOGY (MN-S000019)**

HPS104 Foundations of Psychological Science

HPS111 Introduction to Psychology: Human Behaviour

HPS201 Psychology Research Methods (Introductory)

HPS301 Psychology Research Methods (Intermediate)

Completion Rule

- Must pass 4 unit(s) in {HPS104, HPS111, HPS201, HPS301}

**RETAIL MANAGEMENT (MN-M30009)**

MIS313 Strategic Supply Chain Management

MMK101 Marketing Fundamentals

MMK217 Retail Management

MMK280 Brand Management

MMK317 Advanced Retail Management

Completion Rule

- Must pass 3 unit(s) in {MIS313, MMK217, MMK280, MMK317}
- Must pass 1 unit(s) in {MMK101}

**SECURITY MANAGEMENT (MN-S000003)**

MIS211 Cyber Security and Governance

MMH356 Change Management

MMM132 Management

SIT284 Cyber Security Management

Completion Rule

- Must pass all unit(s) in {MIS211, MMH356, MMM132, SIT284}

**SPORTS ANALYTICS (MN-S000020)**

[HSE010 Exercise and Sport Laboratory Safety](#)

[HSE104 Research Methods and Data Analysis in Exercise and Sport](#)

[HSE202 Biomechanics](#)

[HSE311 Applied Sports Science 1](#)

[HSE314 Applied Sports Science 2](#)

Completion Rule

- Must pass 5 unit(s) in {HSE010, HSE104, HSE202, HSE311, HSE314}

#### SUSTAINABILITY AND ENVIRONMENTAL SCIENCE (MN-S000021)

[SLE101 Environmental Techniques and Monitoring](#)

[SLE121 Environmental Sustainability](#)

[SLE207 Environmental Planning and Impact Assessment](#)

[SLE239 Introduction to Geographic Information Systems](#)

Completion Rule

- Must pass 4 unit(s) in {SLE101, SLE121, SLE207, SLE239}

#### VIRTUAL AND AUGMENTED REALITY (MN-S000009)

[SIT183 Interactive Application Design for Virtual and Augmented Reality](#)

[SIT253 Content Creation for Interactive Experiences](#)

[SIT283 Development for Virtual and Augmented Reality](#)

[SIT383 Assembling Virtual and Augmented Reality Experiences](#)

Completion Rule

- Must pass all unit(s) in {SIT183, SIT253, SIT283, SIT383}