

# S770 MASTER OF DATA SCIENCE (PROFESSIONAL)

## FACULTY OF SCIENCE, ENGINEERING AND BUILT ENVIRONMENT

### PART C: PROFESSIONAL STUDIES - PROFESSIONAL PRACTICE PART SEQUENCE



FOR STUDENTS COMMENCING TRIMESTER 1 2024

Last updated 07/12/2023

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: [DAI001 Academic Integrity Module](#) (0 credit points)

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

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

\*Excluding SIT771, SIT772, SIT773, SIT774

Note: Students undertaking SIT791 Professional Practice must have successfully completed STP710 Career Tools for Employability (0-credit point unit).

#### S770 COURSE RULES

- Must pass 16 credit points for course
- Must pass ALL units in {DAI001, SIT718, SIT720, SIT731, SIT741, SIT742, SIT743, SIT744, SIT787}
- Must pass 1 unit set(s) in {Part C: Professional Studies - Professional Practice (PT-S770003), Part C: Professional Studies - Research Training Project and Electives (PT-S770004), Part C: Professional Studies - Research Project (PT-S770006), Part C: Professional Studies - Team Project (PT-S770007)}
- Must pass 1 unit set(s) in {Business Analytics (SP-MDBS004), Information Systems (SP-MDBS012), Networking and Cloud Technologies (SP-S000021), Cyber Security (SP-S000028), Blockchain and Software Development (SP-S000092), AI and Computer Vision (SP-S000093), Analytics in Internet of Things (SP-S000094)} OR 4 credit points of electives (level 7 SIT or MIS coded units) (excluding SIT771, SIT772, SIT773, SIT774)
- Must pass ALL units in {SIT753, SIT764, SIT782} OR
- Must pass ALL units in {SIT753, SIT791, STP710} OR
- Must pass ALL units in {SIT723, SIT746} OR
- Must pass ALL units in {SIT723, SIT753}

#### 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: _____	

## 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.

## S770 MASTER OF DATA SCIENCE (PROFESSIONAL) PART UNIT SETS

PART A: CORE DATA SCIENCE STUDIES (PT-S770001)
<a href="#">SIT718 Real World Analytics</a>
<a href="#">SIT720 Machine Learning</a>
<a href="#">SIT731 Data Wrangling</a>
<a href="#">SIT741 Statistical Data Analysis</a>
<a href="#">SIT742 Modern Data Science</a>
<a href="#">SIT743 Bayesian Learning and Graphical Models</a>
<a href="#">SIT744 Deep Learning</a>
<a href="#">SIT787 Mathematics for Artificial Intelligence</a>

### Completion Rule

- Must pass all unit(s) in {SIT718, SIT720, SIT731, SIT741, SIT742, SIT743, SIT744, SIT787}

PART C: PROFESSIONAL STUDIES - PROFESSIONAL PRACTICE (PT-S770003)
<a href="#">SIT753 Professional Practice in Information Technology</a>
<a href="#">SIT791 Professional Practice</a>
<a href="#">STP710 Career Tools for Employability</a>

Completion Rule

- Must pass all unit(s) in {SIT753, SIT791, STP710}
- Must pass 1 credit points in {SIT7%}

**PART C: PROFESSIONAL STUDIES - RESEARCH PROJECT (PT-S770006)**

SIT746 Research Project (Advanced)

SIT723 - Research Techniques and Applications

Completion Rule

- Must pass all unit(s) in {SIT723, SIT746}

**PART C: PROFESSIONAL STUDIES - RESEARCH TRAINING PROJECT AND ELECTIVES (PT-S770004)**

SIT753 Professional Practice in Information Technology

SIT723 - Research Techniques and Applications

Completion Rule

- Must pass all unit(s) in {SIT723, SIT753}
- Must pass 1 credit points in {SIT7%}

**PART C: PROFESSIONAL STUDIES - TEAM PROJECT (PT-S770007)**

SIT753 Professional Practice in Information Technology

SIT764 Team Project (A) - Project Management and Practices

SIT782 Team Project (B) - Execution and Delivery

Completion Rule

- Must pass all unit(s) in {SIT753, SIT764, SIT782}
- Must pass 1 credit points in {SIT7%}

**S770 MASTER OF DATA SCIENCE (PROFESSIONAL) SPECIALISATION UNIT SETS**

**AI AND COMPUTER VISION (SP-S000093)**

SIT770 Natural Language Processing

SIT788 Engineering Ai Solutions

SIT789 Robotics, Computer Vision and Speech Processing

SIT796 Reinforcement Learning

SIT799 Human Aligned Artificial Intelligence

Completion Rule

- Must pass 4 unit(s) in {SIT770, SIT788, SIT789, SIT796, SIT799}

## ANALYTICS IN INTERNET OF THINGS (SP-S000094)

[SIT722 Software Deployment and Operation](#)

[SIT725 Applied Software Engineering](#)

[SIT729 Software Architecture and Scalability for Internet of Things](#)

[SIT730 Embedded Systems Development](#)

[SIT732 Developing Secure Internet of Things Applications](#)

### Completion Rule

- Must pass all unit(s) in {SIT725, SIT729, SIT730}
- Must pass 1 unit(s) in {SIT722, SIT732}

## BLOCKCHAIN AND SOFTWARE DEVELOPMENT (SP-S000092)

[SIT708 Mobile Application Development](#)

[SIT725 Applied Software Engineering](#)

[SIT728 Blockchain Technologies and Real-World Applications](#)

[SIT737 Cloud Native Application Development](#)

### Completion Rule

- Must pass all unit(s) in {SIT708, SIT725, SIT728, SIT737}

## BUSINESS ANALYTICS (SP-MDBS004)

[MIS714 People Analytics](#)

[MIS770 Foundation Skills in Data Analysis](#)

[MIS771 Descriptive Analytics and Visualisation](#)

[MIS772 Predictive Analytics](#)

[MIS781 Business Intelligence and Database](#)

### Completion Rule

- Must pass 2 unit(s) in {MIS714, MIS772, MIS781}
- Must pass 2 unit(s) in {MIS770, MIS771}

## CYBER SECURITY (SP-S000028)

[SIT703 Computer Forensics and Investigations](#)

[SIT704 Ethical Hacking](#)

[SIT716 Computer Networks and Security](#)

[SIT735 Application and Communication Protocol Security](#)

SIT736 Identity, Access Management and Physical Security

SIT738 Secure Coding

SIT763 Cyber Security Management

Completion Rule

- Must pass all unit(s) in {SIT704, SIT716}
- Must pass 2 unit(s) in {SIT703, SIT735, SIT736, SIT738, SIT763}

**INFORMATION SYSTEMS (SP-MDBS012)**

MIS701 Digital Business Analysis

MIS761 Cyber Security Strategies

MIS770 Foundation Skills in Data Analysis

MIS782 Value of Information

Completion Rule

- Must pass 3 credit points in {MIS701, MIS761, MIS782}
- Must pass 1 credit points in {MIS770}

**NETWORKING AND CLOUD TECHNOLOGIES (SP-S000021)**

SIT706 Cloud Computing

SIT716 Computer Networks and Security

SIT722 Software Deployment and Operation

SIT727 Cloud Automation Technologies

SIT737 Cloud Native Application Development

Completion Rule

- Must pass 4 unit(s) in {SIT706, SIT716, SIT722, SIT727, SIT737}