

Course Offer Guide

The Course Offer Guide is an integrated tool within the UniSQ Handbook designed to help students plan their studies with confidence. It provides a clear overview of:

- Course availability across the academic year (e.g. Trimester 1, Block 2).
- Delivery mode for each course, whether online, on-campus, or external.
- Campus offerings, showing where each unit is available.

This guide supports informed decision-making by allowing students to explore flexible study options and align their enrolment with personal and academic goals.

Export Information

Details in this file are accurate as at the date of export/printing and are subject to change during the year and from year to year. This document is provided to enable users to make notes and annotations, as needed.

Contents within the Course Offerings section of this document are a condensed version of the UniSQ Handbook. For detailed information, check <https://handbook-guide.unisq.edu.au/program/2024/MSCN>.

Once exported, UniSQ will no longer accept this document as a source-of-truth for curriculum content. Users must check with source systems to confirm the accuracy of data after export.

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Sources

- [UniSQ Handbook](#)
- [UniSQ Course Offer Guide](#)
- [UConnect](#)

Legend

Abbreviations used include:

Code	Meaning	Colour
TR1-TR3	Trimester 1-3	-
BL1-BL6	Block 1-6	-
YL1-YL3	Year-long 1-3	-
RES1-RES8	Research 1-8	-
ON	On-campus	UniSQ Gold
OL	Online	UniSQ Dark Plum

Code	Meaning	Colour
EXT	External	UniSQ Fire Sky red
Mixed (e.g. ON / OL)	More than one mode (e.g. On-campus / Online)	UniSQ Soft Pink

MSCN - Master of Science

Program Code	MSCN
Program Type	Postgraduate
Credit Points	16
UniSQ Handbook	https://handbook-guide.unisq.edu.au/program/2024/MSCN
Course Offer Guide	https://course-offer-guide.unisq.edu.au/2024/MSCN.html

Program Rules

The Master of Science offers 5 specialisations. This program contains 2 Core courses 8 content specific units, 2 Student Selection units and 4 Research Projects units.

Course Offerings

Core Courses (2 Units)

	Toowoomba		
Course	TR1	TR2	TR3
SCI6103 - Essentials for Professional Scientists 1.00 Unit(s) Course Anti-requisite: Course Anti-requisite: Course SCI4405 Other: Pre-requisite: Students must be enrolled in one of the following programs: MSCN or MSCR or MCTN or MADS or GCSC or GDSI or DPHD or its equivalent	ON / OL	OL / ON	
STA6200 - Statistics for Quantitative Researchers 1.00 Unit(s) Other: Enrolment is not permitted in STA6200 if STA8170 has been previously completed.	OL / ON	OL	ON / OL

Specialisation (8 Units)

Choose one (1) the following specialisations

Agricultural Science

Discipline courses (8 Units)

Students complete all 8 (eight) units

	Toowoomba		
Course	TR1	TR2	TR3
AGR6001 - Food Security in the 21st Century 1.00 Unit(s) No requisites	OL / ON		
AGR6002 - Emerging Technologies in Agriculture 1.00 Unit(s) Course Anti-requisite: Course Anti-requisite: Course AGR8002		OL / ON	
AGR6005 - Advanced Animal Production 1.00 Unit(s) No requisites **Not Offered**			
AGR6305 - Applications of Advanced Technology in Agriculture 1.00 Unit(s) Other: Pre-requisite: AGR3305 or Students must be enrolled in one of the following Programs: MENS or MSCN or GDNS or GCNS			OL / ON
REN6202 - Conservation for Sustainable Futures 1.00 Unit(s) Course Anti-requisite: Course Anti-requisite: Course REN8202		OL / ON	
AGR6004 - Advanced Plant Production 1.00 Unit(s) No requisites **Not Offered**			
AGR6006 - Soil and Water Resources 1.00 Unit(s) No requisites **Not Offered**			
BIO6201 - Biology Foundations 1.00 Unit(s) Course Anti-requisite: Course Anti-requisite: Course BIO8201		OL / ON	

Astrophysics

Disicipline units (8 Units)

	Toowoomba		
Course	TR1	TR2	TR3
PHY6001 - Observational Astrophysics 2.00 Unit(s) Course Anti-requisite: Course Anti-requisite: Course PHY8001 Other: Students must be enrolled in the course via UniSQ Professional Development or via the MSCN Students will require access to e-mail and internet access to UConnect for this course.		OL	
PHY6002 - Stellar Astrophysics 2.00 Unit(s) Other: Students must be enrolled in the course via UniSQ Professional Development or via the MSCN. Students will require access to email and internet access to UConnect for this course.			OL
PHY6003 - Planetary Systems 2.00 Unit(s) Course Anti-requisite: Course Anti-requisite: Course PHY8002 Other: Students must be enrolled in the course via UniSQ Professional Development or via the MSCN Students will require access to e-mail and internet access to UConnect for this course.	OL		
PHY6004 - Galactic Astrophysics and Cosmology 2.00 Unit(s) Other: Students must be enrolled in the course via UniSQ Professional Development or via the MSCN. Students will require access to email and internet access to UConnect for this course.			OL

Environment and Sustainability

Discipline Course (8 Units)

	Springfield		Toowoomba	
Course	TR1	TR2	TR1	TR2
REN6101 - Environment, Society and Sustainability 1.00 Unit(s) Course Anti-requisite: Course Anti-requisite: Course REN8101			ON / OL	

	Springfield		Toowoomba	
Course	TR1	TR2	TR1	TR2
CLI6204 - Global Environmental Systems 1.00 Unit(s) Course Anti-requisite: Course Anti-requisite: Course CLI8204	ON			
REN6203 - Sustainability Science 1.00 Unit(s) Course Anti-requisite: Course Anti-requisite: Course REN8203				OL / ON
CLI6205 - Climate and Sustainability 1.00 Unit(s) Course Anti-requisite: Course Anti-requisite: Course CLI8205		ON		
LAW8713 - Sustainable Environmental Governance 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: Course LAW5111 Other: Pre-requisite: LAW5111 or Students must be enrolled in one of the following Programs: LLBH or LLMC **Not Offered**				
CLI6002 - Climate Contexts for Planetary Health 1.00 Unit(s) Course Anti-requisite: Course Anti-requisite: Course CLI8002 **Not Offered**				
CLI6001 - Climate Risk 1.00 Unit(s) Course Anti-requisite: Course Anti-requisite: Course CLI8001	ON		OL	
REN6202 - Conservation for Sustainable Futures 1.00 Unit(s) Course Anti-requisite: Course Anti-requisite: Course REN8202				OL / ON

Mathematics and Statistics

Core (8 Units)

Students complete 8 (eight) courses from the following

	Toowoomba		
Course	TR1	TR2	TR3
MAT5002 - Algebra and Calculus A 1.00 Unit(s) Assumed Knowledge: Current skills at the level of Queensland Senior Secondary School Studies Mathematical Methods (or Maths B) or equivalent are assumed knowledge. Students who do not have the assumed knowledge may choose to study MAT5000 and/or MAT5001 PRIOR to this course.	ON / OL	OL / ON	
MAT5200 - Algebra and Calculus B 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: Course MAT5002			ON / OL
MAT5409 - High Performance Computing 1.00 Unit(s) Assumed Knowledge: Knowledge of basic programming is assumed at the level of CSC2410 or CSC1401 or CSC5020)	OL		
MAT5300 - Applied Operations Research A 1.00 Unit(s) Assumed Knowledge: MAT5002 or equivalent.		ON / OL	
STA6190 - Applied Experimental Design 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: Course STA6200 Other: Pre-requisite: STA6200 or STA8170 or equivalent or approval of examiner		OL	
STA6302 - Applied Statistical Models 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: Course STA6190			OL
STA6100 - Multivariate Analysis for High-Dimensional Data 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: Course STA6200 Other: Pre-requisite: STA8170 or STA6200		ON / OL	
MAT6105 - Advanced Partial Differential Equations 1.00 Unit(s) No requisites	OL		

Sport and Exercise

Discipline Units (8 Units)

Complete all eight (8) units

	Ipswich		Toowoomba	
Course	TR1	TR2	TR1	TR2
SES6008 - Advanced Anatomy and Physiology 1.00 Unit(s) No requisites	ON		EXT	
SES6005 - Advanced Exercise Physiology 1.00 Unit(s) No requisites	ON		EXT	
SES6003 - Advanced Motor Control and Learning 1.00 Unit(s) No requisites	ON		EXT	
SES6007 - Advanced Exercise Prescription and Delivery 2 1.00 Unit(s) No requisites	ON		EXT	
SES6006 - Advanced Exercise Prescription and Delivery 1 1.00 Unit(s) No requisites		ON		EXT
SES6001 - Advanced Biomechanics 1.00 Unit(s) No requisites		ON		EXT
SES6103 - Advanced Nutrition and Exercise 1.00 Unit(s) No requisites		ON		ON / EXT
SES6206 - Advanced Strength Training and Conditioning 1.00 Unit(s) No requisites		ON		EXT

Student Selection Units (2 Units)

Students complete two (2) student selection units from the list of approved courses

Agricultural Science student selection units (2 Units)

Students choose two (2) Student Selection Units of Level 5 or 6 course as approved by the Program Director

Astrophysics student selection units (2 Units)

Students choose two (2) Student Selection Units from the below recommended electives or any postgraduate level course subject to pre-requisite requirements and enrolment rules list as approved by the Program Director

	Toowoomba	
Course	TR1	TR2
PHY5000 - Concepts in Physics 1.00 Unit(s) Other: It is assumed that students will have mathematical skills (including algebra and calculus) to the standard of Queensland Mathematics B, or Mathematical Methods or equivalent..		OL
PHY5001 - Concepts in Astronomy 1.00 Unit(s) Assumed Knowledge: It is assumed that students will have mathematical skills (including algebra and calculus) to the standard of Queensland Mathematics B, or Mathematical Methods or equivalent..	OL	

Environment and Sustainability student selection units (2 Units)

Students choose two (2) Student Selection Units of Level 5 or 6 course as approved by the Program Director

Mathematics and Statistics student selection units (2 Units)

Students choose two (2) units from the following

	Toowoomba		
Course	TR1	TR2	TR3
STA6180 - Advanced Topics in Statistics 1.00 Unit(s) Other: Enrolment in this course requires the approval of the Course Coordinator. Student should choose one of the three topics listed in the topics section and contact the Course Coordinator for enrolment approval. Pre-requisite for Survey Design and Analysis topic and Nonparametric Statistics topic is STA6200 Statistics for Quantitative Researchers Pre-requisite for Bayesian Statistics topic is STA6302 Applied Statistical Models	OL		
MAT6190 - Advanced Topics in Mathematics 1.00 Unit(s)		ON / OL	

	Toowoomba		
Course	TR1	TR2	TR3
Other: Enrolment in this course is only available to students in Honours and some Postgraduate programs and such enrolment requires a supervisor and the permission of the examiner and the appropriate Program Coordinator. Depending on the topic chosen, some students may need to have successfully completed prerequisite courses			
MAT6105 - Advanced Partial Differential Equations 1.00 Unit(s) No requisites	OL		
MAT6103 - Advanced Mathematical Modelling and Dynamical Systems 1.00 Unit(s) Course Pre-requisites: Course Pre-requisites: Course MAT5200		ON / OL	
MAT6400 - Applied Operations Research B 1.00 Unit(s) No requisites	OL / ON		
CSC5020 - Foundations of Programming 1.00 Unit(s) No requisites	OL / ON	ON / OL	OL / ON

Sports and Exercise Student Selection units (2 Units)

Students choose two (2) units from the following

	Springfield			Toowoomba		
Course	TR1	TR2	TR3	TR1	TR2	TR3
MGT6133 - Leading Organisational Change 1.00 Unit(s) Course Anti-requisite: Course Anti-requisite: Course MGT8033	ON			OL / ON		OL
CSC5020 - Foundations of Programming 1.00 Unit(s) No requisites				OL / ON	ON / OL	OL / ON
EDU8328 - Consultation and Communication: Theory and Practice 1.00 Unit(s) No requisites					OL	OL
CIS6001 - Technology Entrepreneurship 1.00 Unit(s) Course Anti-requisite: Course Anti-requisite:		ON		OL / ON	OL	OL

	Springfield			Toowoomba		
Course	TR1	TR2	TR3	TR1	TR2	TR3
Course CIS8001						
MGT5102 - Strategy and Innovation 1.00 Unit(s) No requisites			ON			OL / ON
CIS6100 - Leadership in Digital Services 1.00 Unit(s) Course Anti-requisite: Course Anti-requisite: Course CIS5308			ON		OL	OL
FIN5100 - Data and Decision Making 1.00 Unit(s) Course Anti-requisite: Course Anti-requisite: Course ACC5502		ON			ON / OL	

Research Project Units (4 Units)

	Toowoomba		
Course	TR1	TR2	TR3
MSC6001 - Research Project I 2.00 Unit(s) Other: Pre-requisite: Students must be enrolled in one of the following Programs: MCTN or MCOP or MCTE or MSCN or MCCO or MADS or have the approval of their program coordinator	OL / ON	OL / ON	OL / ON
MSC6002 - Research Project II 2.00 Unit(s) Course Pre-requisites: Course Pre-requisites: (Course MSC8001 OR Course MSC6001)	ON / OL	ON / OL	ON / OL

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