62510 Master of Information Technology

2 Year Course Study Plan – Commencing Semester 1, 2021

Students who have completed degree studies in a non-cognate area, or equivalent as recognised by the School, must complete relevant conversion units up to the value of 24 points, as advised by the School. MATH1721 is recommended for students who have a basic maths background (at the level of Mathematics Applications ATAR or equivalent) or who wish to refresh their mathematical knowledge. For students with Mathematics Methods ATAR or equivalent or higher, this unit is not required.

Year 1				
Semester 1, 2021	**CITS1401*** Computational Thinking with Python **Note: Conversion Unit**	**CITS1001*** Software Engineering with Java **Note: Conversion Unit**	**CITS4401** Software Requirements and Design	**CITS4407** Open Source Tools and Scripting
Semester 2, 2021	**CITS1402** Relational Database Management Systems **Note: Conversion Unit**	**CITS1003** Introduction to Cybersecurity **Note: Conversion Unit**	**OPTION ~ or ~ MATH1721*** Mathematics Foundations: Methods	**OPTION**
Year 2				
Semester 1, 2022	**CITS5501** Software Testing and Quality Assurance *Prereq: 12 points of programming-based units•*	**CITS5505** Agile Web Development *Prereq: 6 points of programming-based units• and familiarity with CITS1402 and CITS1401*	**GENG5505*** Project Management and Engineering Practice *Prereq: ENSC1001 or ENSC1003*	**OPTION** **Note: MGMT5504 Data Analysis and Decision Making is recommended**
Semester 2, 2022	**CITS5206** Professional Computing *Prereq: 24 points of L4/L5 units•*	**CITS5503** Cloud Computing *Prereq: 12 points of programming-based units•*	**CITS5506** The Internet of Things *Prereq: 6 points of programming-based units•*	**OPTION**

** unit is available in Semester 1 and Semester 2; • programming-based units are: CITS1001 Software Engineering with Java; CITS1401 Computational Thinking with Python; CITS2002 Systems Programming and CITS2200 Data Structures and Algorithms; CITS2401 Computer Analysis and Visualisation; CITS2402 Introduction to Data Science; CITS4009 Computational Data Analysis. Students enrolled in the Master of Information Technology already meet the required "12 points of programming-based units" prerequisite.*

Optional Units: Students take units to the value of 24 points from this group:	
CITS4009 Computational Data Analysis (S2)	**ENVT4411** Geographic Information Systems Applications (S1, S2)
CITS4403 Computational Modelling (S1) *Prereq: 6 points of programming-based units•*	**GENG5507** Risk, Reliability and Safety (S1, S2) *Prereq: MATH1011 and MATH1012*
CITS4404 Artificial Intelligence and Adaptive Systems (NA 2021) *Prereq: 12 points of programming-based units•*	**GENG5508** Robotics (S1) *Prereq: CITS1001 or CITS1401 or CIST2002 or CITS2401*
CITS5504 Data Warehousing (S1) *Prereq: CITS1402*	**INMT5518** Models for Logistics, Operations and Services (S1)
CITS5507 High Performance Computing (S2) *Prereq: 12 points of programming-based units•*	**INMT5526** Business Intelligence (S2)
CITS5508 Machine Learning (S1) *Prereq: 12 points of programming-based units•*	**MGMT5504** Data Analysis and Decision Making (S1, S2)

The Rules for the 62510 Master of Information Technology can be found at: handbooks.uwa.edu.au/rules-62510-MIT

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All units have a value of six points unless otherwise stated.

Information about unit availability should be checked at the beginning of each semester and can be found at: **timetable.uwa.edu.au** or **Handbooks**.

Further Help!
Refer to the UniStart website for your step-by-step guide on planning your enrolment: **uwa.edu.au/unistart**. If you need to discuss your study plan further, please contact the EMS Student Service and Engagement Office: **enquiries-ems@uwa.edu.au**