

B1390 Bachelor of Information Technology (Major: AI and Autonomous Systems)

Academic Chair: Shri Rai (s.rai@murdoch.edu.au)
[IT Student Hub and advice is here.](#)

Start Date: Semester 2, 2026

Year 1 – 2026			Semester 2 Units	CP
	<i>For a second major or minor choose only one colour.</i>		ICT169 FOUNDATIONS OF DATA COMMUNICATIONS	3
	Computer Science as the second major		ICT170 FOUNDATIONS OF COMPUTER SYSTEMS	3
	OR		ICT100 TRANSITION TO IT	3
	Web Development as a minor		MAS182 or MAS164 FUNDAMENTALS OF MATHEMATICS#	3
			Summer Units	CP
			Total	12
Year 2 - 2027	Semester 1 Units	CP	Semester 2 Units	CP
	ICT201 INFORMATION TECHNOLOGY PROJECT MANAGEMENT	3	ICT167 PRINCIPLES OF COMPUTER SCIENCE	3
	ICT159 FOUNDATIONS OF PROGRAMMING	3	ICT285 DATABASES	3
	MAS162 DISCRETE MATHEMATICS AND LOGIC# (may need MAS164 or MAS182)	3	DISCOVERY STUDY	3
	ICT111 CYBERSECURITY FUNDAMENTALS	3	<i>OPTION/ELECTIVE</i> (ICT286, ICT206 , MAS225)	3
	Winter Units	CP	Summer Units	CP
	Total	12	Total	12
Year 3 - 2028	Semester 1 Units	CP	Semester 2 Units	CP
	BSC203 INTRODUCTION TO ICT RESEARCH METHODS	3	ICT203 ARTIFICIAL INTELLIGENCE AND INTELLIGENT AGENTS	3
	ICT284 SYSTEMS ANALYSIS AND DESIGN	3	ICT305 DATA VISUALISATION AND SIMULATION	3
	ICT202 MACHINE LEARNING	3	<i>OPTION/ELECTIVE</i> (ICT303 , ICT374, ICT356, ICT286, ICT290, MAS225)	3
	<i>OPTION/ELECTIVE</i> (ICT289, ICT283)	3	<i>OPTION/ELECTIVE</i> (ICT303, ICT374 , ICT356, ICT286, ICT290, MAS225)	3
	Winter Units	CP	Summer Units	CP
	Total	12	Total	12
Year 4 - 2029	Semester 1 Units	CP	Semester 2	
	ICT302 IT PROFESSIONAL PRACTICE PROJECT	3		
	ICT304 AI SYSTEM DESIGN	3		
	<i>OPTION/ELECTIVE</i> (ICT373 , ICT375, ICT367, ICT397, ICT356, ICT284, ICT283, ICT289)	3		
	<i>OPTION/ELECTIVE</i> (ICT373, ICT375, ICT367, ICT397, ICT356, ICT283, ICT284, ICT289)	3		
	Winter Units	CP		
	Total	12		

TOTAL CREDIT POINTS 72

Note: A second major is strongly recommended. To complete a second major within the B1390 Bachelor of Information Technology, take the core units of the second major in place of the indicated option/elective. Use the [Course Visualiser to build your study plan](#). <https://handbook.murdoch.edu.au/course-visualiser/>. There are other second majors/minors which are not listed so [use the visualiser](#). View the advice and job/internship announcements at the [IT Student Hub in LMS](#). Do not have more than 30 points of first year units which includes any advanced standing. When possible complete ict284.

#Major Prerequisite: Maths background

[MAS164](#): Students who have achieved a final scaled score of 50% or more in ATAR Mathematics Methods or Specialist, WACE Mathematics Specialist 3C/3D or TEE Calculus may not enrol in MAS164. A preclusion for MAS164 is given and students will enrol in MAS162 instead. [MAS162](#): Students who have completed MAS162 in a prior semester should enrol in option/elective. The recommended option/elective for this major is MAS225 Optimisation and Graph Theory. If you have a second major (strongly recommended) complete the core unit of the second major, and complete MAS225 in a later semester as an option/elective where possible.

Please note: This course plan is a sample only and must be read in conjunction with the full course structure, unit prerequisites and enrolment options as outlined in the [Handbook](#). This information is correct as at 23/06/2026.