

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 1, 2026

Year 1 – 2026	Semester 1 Units	CP	Semester 2 Units	CP
	ICT100 TRANSITION TO IT	3	ICT169 FOUNDATIONS OF DATA COMMUNICATIONS	3
	ICT159 FOUNDATIONS OF PROGRAMMING	3	ICT170 FOUNDATIONS OF COMPUTER SYSTEMS	3
	MAS164 FUNDAMENTALS OF MATHEMATICS [#]	3	ICT167 PRINCIPLES OF COMPUTER SCIENCE	3
	ICT111 CYBERSECURITY FUNDAMENTALS	3	MAS162 DISCRETE MATHEMATICS AND LOGIC [#] (may need MAS164)	3
	Winter Units	CP	Summer Units	CP
	Total	12	Total	12
Year 2 - 2027	Semester 1 Units	CP	Semester 2 Units	CP
	ICT201 INFORMATION TECHNOLOGY PROJECT MANAGEMENT	3	ICT203 ARTIFICIAL INTELLIGENCE AND INTELLIGENT AGENTS	3
	ICT202 MACHINE LEARNING	3	ICT285 DATABASES	3
	OPTION/ELECTIVE (ICT284, ICT289 , ICT283)	3	DISCOVERY STUDY	3
	OPTION/ELECTIVE (ICT284, ICT289 , ICT283)	3	OPTION/ELECTIVE (ICT286 , ICT290 , ICT206 , MAS225)	3
	Winter Units	CP	Summer Units	CP
	Total	12	Total	12
Year 3 - 2028	Semester 1 Units	CP	Semester 2 Units	CP
	ICT304 AI SYSTEM DESIGN	3	ICT305 DATA VISUALISATION AND SIMULATION	3
	BSC203 INTRODUCTION TO ICT RESEARCH METHODS	3	ICT302 IT PROFESSIONAL PRACTICE PROJECT	3
	OPTION/ELECTIVE (ICT373 , ICT375 , ICT367 , ICT397 , ICT356, ICT284, ICT283 , ICT289)	3	OPTION/ELECTIVE (ICT303 , ICT374 , ICT398 , ICT356, ICT286, ICT290, ICT203, MAS225)	3
	OPTION/ELECTIVE (ICT373 , ICT375 , ICT367 , ICT397 , ICT356, ICT283 , ICT284, ICT289)	3	OPTION/ELECTIVE (ICT303 , ICT374 , ICT398 , ICT356, ICT286, ICT290, ICT203, MAS225)	3
	Winter Units	CP	Summer Units	CP
	Total	12	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/). <https://handbook.murdoch.edu.au/course-visualiser/>. Some of the option/electives shown can enable a second major ([Computer Science](#) or [Games Technology](#)) or minor (Web Development) when all units in that colour are also completed. There are other second majors/minors which are not listed. [Use the visualiser](#) and 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 19/11/2025.