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| **Year 1** |
| *Semester 1,**2022* | **CITS1401**Computational Thinking with Python*Prereq: Maths Applications ATAR or MATH1720* | **PHIL1001**Ethics for the Digital Age:An Introduction to Moral Philosophy | **CITS1003**Introduction to Cybersecurity | **ELECTIVE** |
| *Semester 2,**2022* | **CITS1402**Relational Database Management Systems*Prereq: Maths Applications ATAR or MATH1720* | **CITS2002**Systems Programming*Prereq: Maths Methods ATAR or MATH1721* |  **ELECTIVE** | **ELECTIVE** |
| **Year 2** |
| *Semester 1,**2023* | **CITS2200**Data Structures and Algorithms*Prereq: CITS1001 and MATH1721* | **CITS2005**Object Oriented Programming*Prereq: Math Methods ATAR or MATH1721 and CITS1401* | **CITS3002**Computer Networks*Prereq: CITS2002* | **ELECTIVE** |
| *Semester 2,**2023* | **PHIL2008**Machine Minds and Superintelligence:The Philosophy of Articfical Intelligence*Prereq: Any level 1 unit* | **CITS3001**Algorithms, Agents and Artificial Intelligence*Prereq: CITS2200* | **CITS2211**Discrete Structures*Prereq: Maths Applications ATAR or MATH1721 Coreq: at least one L1 unit in computing or maths* | **ELECTIVE** |
| **Year 3** |
| *Semester 1,**2024* | **CITS4402**Computer Vision*APS: CITS2401 and MATH1011* | **CITS3403**Agile Web Development*Prereq: CITS1001 or CITS1401 or CITS2002* |  **ELECTIVE** | **Degree-specific major unit****PHIL3003 OR SCIE2100** |
| *Semester 2,**2024* | **CITS3005**Knowledge Representation*Prereq: CITS3001* | **CITS3007**Secure Coding*Prereq: 12 points of programming-based units* | **CITS3200**Professional Computing*Prereq: Completion of 84 pts, 12 points from CITS1401**or CITS1001 and CIST2002 or CITS2200 or CITS2402* |  **CITS4403**Computational Modelling*Prereq: 6 points of programming-based units* |
| **Year 4** |
| *Semester 1,**2025* | **CITS5508**Machine Learning*Prereq: 12 points of programming-based units* | **CITS4012**Natural Language Processing*Prereq: 12 points of programming-based units* | **CITS4404**Artificial Intelligence and Adaptive Systems | **CITS4010**Computer Science Honours Research Project Part 1 |

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| *Semester 2,**202* |  | **CITS5017**Deep Learning*Prereq: CITS5508* |  | **CITS4011**Computer Science Honours Research Project Part 2 *Prereq: CITS4010* |

 *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*

# **Note: Electives may be used to complete a minor, noting that any four units completed outside of the double major meets University broadening requirements.**

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| **Optional Units:** Students take units to the value of 6 points from this group |
| **SCIE2100** Social Responsibility in Action (S1) | **PHIL3003** Moral Theory (S1)*Prereq: Any level 2 Philosophy unit* |

The Rules for the Bachelor of Advanced Computer Science [Honours] can be found at: [https://handbooks.uwa.edu.au/coursedetails?id=cbh8#rules](https://handbooks.uwa.edu.au/coursedetails?id=cbh8&rules)

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](http://www.timetable.uwa.edu.au/) or [Handbooks.](https://handbooks.uwa.edu.au/)

# **Further Help!**

Refer to the UniStar t website for your step-by-step guide on planning your enrolment: [uwa.edu.au/unistart.](https://www.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