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| **Year 1** | | | | |
| *Semester 2,*  *2022* | **CITS1402**  Relational Database Management Systems  *Prereq: Maths Applications ATAR or MATH1720* | **CITS1001**  Software Engineering with Java  *Prereq: Maths Applications ATAR or MATH1720* | **ELECTIVE** | **ELECTIVE** |
| *Semester 1,*  *2023* | **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** |
| **Year 2** | | | | |
| *Semester 2,*  *2023* | **CITS2002**  Systems Programming  *Prereq: Maths Methods ATAR or MATH1721* | **CITS2211**  Discrete Structures  *Prereq: Maths Applications ATAR or MATH1721 Coreq: at least one L1 unit in computing or maths* | **PHIL2008**  Machine Minds and Superintelligence:  The Philosophy of Artificial Intelligence  *Prereq: Any level 1 unit* | **ELECTIVE** |
| *Semester 1,*  *2024* | **CITS3403**  Agile Web Development  *Prereq: CITS1001 or CITS1401 or CITS2002* | **CITS3002**  Computer Networks  *Prereq: CITS2002* | **CITS2200**  Data Structures and Algorithms  *Prereq: CITS1001 and MATH1721* | **ELECTIVE** |
| **Year 3** | | | | |
| *Semester 2,*  *2024* | **CITS3005**  Knowledge Representation  *Prereq: CITS3001* | **CITS3200**  Professional Computing  *Prereq: Completion of 84 pts, 12 points from*  *CITS1401 or CITS1001 and CIST2002 or CITS2200 or*  *CITS2402* | **CITS3007**  Secure Coding  *Prereq: 12 points of programming-based units* | **CITS3001**  Algorithms, Agents and Artificial Intelligence  *Prereq: CITS2200* |
| *Semester 1,*  *2025* | **CITS5508**  Machine Learning  *Prereq: 12 points of programming-based units* | **CITS4402**  Computer Vision  *APS: CITS2401 and MATH1011* | **ELECTIVE** | **GROUP A OPTION**  **~ or ~ ELECTIVE** |
| **Year 4** | | | | |
| *Semester 2,*  *2025* | **CITS5017**  Deep Learning  *Prereq: CITS5508* | **CITS4404**  Artificial Intelligence and Adaptive Systems  *Prereq: 12 points of programming-based units* | **CITS4010**  Computer Science Honours Research Project Part 1 | |
| *Semester 1,*  *2026* | **CITS4012**  Natural Language Processing  *Prereq: 12 points of programming-based units* | **CITS4403**  Computational Modelling  *Prereq: 6 points of programming-based units* | **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/course-rules#code-62530) [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.a](mailto:enquiries-ems@uwa.edu.au)u