

# BH008 Bachelor of Advanced Computer Science [Honours] Artificial Intelligence (MJD-ARIDM)

## 4 Year Course Study Plan – Commencing Semester 1, 2021

| Year 1              |  |  |  |   |
|---------------------|--|--|--|---|
| Semester 1,<br>2021 | <b>CITS1401*</b><br>Computational Thinking with Python<br><i>Prereq: Maths Applications ATAR or MATH1720</i>               | <b>CITS1001*</b><br>Software Engineering with Java<br><i>Prereq: Maths Applications ATAR or MATH1720</i> | <b>PHIL1001</b><br>Ethics for the Digital Age:<br>An Introduction to Moral Philosophy  | <b>ELECTIVE</b>   |
| Semester 2,<br>2021 | <b>CITS1402</b><br>Relational Database Management<br>Systems<br><i>Prereq: Maths Applications ATAR or MATH1720</i>         | <b>CITS1003</b><br>Introduction to Cybersecurity   | <b>ELECTIVE</b>  | <b>CITS2002</b><br>Systems Programming<br><i>Prereq: Maths Methods ATAR or MATH1721</i>                       |
| Year 2              |  |  |  |   |
| Semester 1,<br>2022 | <b>CITS2200</b><br>Data Structures and Algorithms<br><i>Prereq: CITS1001 and MATH1721</i>                                  | <b>ELECTIVE</b>  | <b>CITS3002</b><br>Computer Networks<br><i>Prereq: CITS2002</i>  | <b>ELECTIVE</b>   |
| Semester 2,<br>2022 | <b>ELECTIVE</b>  | <b>CITS3001</b><br>Algorithms, Agents and Artificial<br>Intelligence<br><i>Prereq: CITS2200</i>          | <b>CITS2211</b><br>Discrete Structures<br><i>Prereq: Maths Applications ATAR or MATH1721</i><br><i>Coreq: at least one L1 unit in computing or maths</i> | <b>PHIL2001</b><br>Bioethics<br><i>Prereq: PHIL1001</i><br><b>Note: PHIL2001 will be replaced by PHIL2008</b> |
| Year 3              |  |  |  |   |
| Semester 1,<br>2023 | <b>CITS4403</b><br>Computational Modelling<br><i>Prereq: 6 points of programming-based units*</i>                          | <b>CITS4402</b><br>Computer Vision<br><i>APS: CITS2401 and MATH1011</i>                                  | <b>CITS3403</b><br>Agile Web Development<br><i>Prereq: CITS2002</i>  | <b>GROUP A OPTION</b><br>~ or ~<br><b>ELECTIVE</b>  |
| Semester 2,<br>2023 | <b>CITS3005</b><br>Knowledge Representation<br><i>Prereq: CITS3001</i>   | <b>CITS3007</b><br>Secure Coding<br><i>Prereq: 12 points of programming-based units*</i>                 | <b>CITS3200</b><br>Professional Computing<br><i>Prereq: 12 points from CITS1401; CIST2002 or<br/>CITS2200</i>  | <b>GROUP A OPTION</b><br>~ or ~<br><b>ELECTIVE</b>  |
| Year 4              |  |  |  |   |
| Semester 1,<br>2024 | <b>CITS5508</b><br>Machine Learning<br><i>Prereq: 12 points of programming-based units*</i>                                | <b>CITS4012</b><br>Natural Language Processing<br><i>Prereq: 12 points of programming-based units*</i>   | <b>CITS4010*</b><br>Computer Science Honours Research Project Part 1   |   |
| Semester 2,<br>2024 | <b>CITS4404</b><br>Artificial Intelligence and Adaptive<br>Systems<br><i>Prereq: 12 points of programming-based units*</i> | <b>CITS5017</b><br>Deep Learning<br><i>Prereq: CITS5508</i>  | <b>CITS4011*</b><br>Computer Science Honours Research Project Part 2<br><i>Prereq: CITS4010</i>  |   |

\* 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 (S2)

*Prereq: PHIL2001*

The Rules for the Bachelor of Advanced Computer Science [Honours] can be found at: [TBC when handbook goes live](#)

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://timetable.uwa.edu.au) or [Handbooks](#).

### Further Help!

Refer to the UniStar website for your step-by-step guide on planning your enrolment: [uwa.edu.au/unistart](http://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](mailto:enquiries-ems@uwa.edu.au)