## **MAJOR: Artificial Intelligence (MJD-ARIDM) – Semester 1 start** 15 x Core units 2 x Research units (12 pts each)

## 5 x Option units (incl. 2 x L4 Group A, 2 x L5 Group B, and 1 x L2/3 Group A or B)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **YEAR 1** | SEM 1 | **CITS1401: Computational Thinking  with Python\*\***  pre-req: ATAR Math Methods or MATH1721 | **CITS1003: Introduction to  Cybersecurity\*\*** | **PHIL1001: Ethics for the Digital Age: An Introduction to Moral Philosophy** | **ELECTIVE** |
| SEM 2 | **CITS1402: Relational Database Management Systems\*\*** pre-req: ATAR Math Applications or MATH1720 | **CITS2002: Systems Programming** pre-req: CITS1401 | **PHIL2008: Machine Minds and Superintelligence:  The Philosophy of Artificial Intelligence** | **ELECTIVE** |
| **YEAR 2** | SEM 1 | **CITS2005: Object Oriented Programming**  pre-req: ATAR Math Methods or MATHS1721 AND CITS1401 | **CITS2200: Data Structures and Algorithms** pre-req: ATAR Math Methods or MATHS1721 AND CITS1401 | **SCIE2100: Social Responsibility in Action**  Group A option unit (pre-req: at least 48 pts)  **OR ELECTIVE**  Complete ELECTIVE if intending to complete  Group B option unit in Year 3 Sem 1 | **ELECTIVE** |
| SEM 2 | **CITS2211: Discrete Structures**   pre-req: ATAR Math Methods or MATHS1721 AND CITS1401 | **CITS3001: Advanced Algorithms**  pre-req: CITS2200 | **CITS3011: Intelligent Agents**  pre-req: CITS2200 | **ELECTIVE** |
| **YEAR 3** | SEM 1 | **CITS3002: Computer Networks** pre-req: CITS2002 | **CITS3403: Agile Web Development**  pre-req: CITS2200 | **PHIL3003: Moral Theory**  Group B option unit (pre-req: any Level 2 Phil unit)  **OR ELECTIVE** Complete ELECTIVE if completed  Group A option unit in Year 2 Sem 1 | **ELECTIVE** |
| SEM 2 | **CITS3005: Knowledge Representation**  pre-req: CITS2200 AND CITS2211 | **CITS3200: Professional Computing**  pre-req: at least 84pts including CITS2002 or CITS2200 | **Group A Option unit** e.g., CITS4403 | **ELECTIVE** |
| **YEAR 4** | SEM 1 | **CITS4010: Computer Science Honours Research Project Part 1** pre-req: completed min. 120 pts | | **CITS5508: Machine Learning** Group B option unit pre-req: CITS1401 | **Group A Option unit** e.g., CITS4012, CITS4402 or CITS4404 |
| SEM 2 | **CITS4011: Computer Science Honours Research Project Part 2** pre-req: CITS4010 | | **CITS5017: Deep Learning** Group B option unit pre-req: CITS5508 | **ELECTIVE** |

\*\* Unit is available in Semester 1 and Semester 2

**Note -**

* MJD-CDSCM Artificial Intelligence major overview and unit details can be found here: <https://handbooks.uwa.edu.au/majordetails?code=MJD-ARIDM#units>
* Course details are in the Handbook. For example: Bachelor of Science rules are here: <https://handbooks.uwa.edu.au/coursedetails?code=BH008#rules>
* 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/) and [Handbooks](https://handbooks.uwa.edu.au/)
* Plan ahead! Look at prerequisite requirements in the Handbook. For example: Level 5 Group B option unit CITS5017 requires prerequisite unit CITS5508.

## **MAJOR: Artificial Intelligence (MJD-ARIDM) – Semester 2 start** 15 x Core units 2 x Research units (12 pts each)

## 5 x Option units (incl. 2 x L4 Group A, 2 x L5 Group B, and 1 x L2/3 Group A or B)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **YEAR 1** | SEM 2 | **CITS1401: Computational Thinking  with Python\*\***  pre-req: ATAR Math Methods or MATH1721 | **CITS1402: Relational Database Management Systems\*\*** pre-req: ATAR Math Applications or MATH1720 | **CITS1003: Introduction to  Cybersecurity\*\*** | **ELECTIVE** |
| **YEAR 2** | SEM 1 | **CITS2005: Object Oriented Programming**  pre-req: ATAR Math Methods or MATHS1721 AND CITS1401 | **CITS2200: Data Structures and Algorithms** pre-req: ATAR Math Methods or MATHS1721 AND CITS1401 | **PHIL1001: Ethics for the Digital Age: An Introduction to Moral Philosophy** | **ELECTIVE** |
| SEM 2 | **CITS2002: Systems Programming** pre-req: CITS1401 | **CITS2211: Discrete Structures**   pre-req: ATAR Math Methods or MATHS1721 AND CITS1401 | **PHIL2008: Machine Minds and Superintelligence:  The Philosophy of Artificial Intelligence** | **ELECTIVE** |
| **YEAR 3** | SEM 1 | **CITS3011: Intelligent Agents**  pre-req: CITS2200 | **SCIE2100: Social Responsibility in Action**  Group A option unit (pre-req: at least 48 pts)  **OR PHIL3003: Moral Theory**  Group B option unit (pre-req: any L2 Phil unit) | **ELECTIVE** | **ELECTIVE** |
| SEM 2 | **CITS3001: Advanced Algorithms**  pre-req: CITS2200 | **CITS3005: Knowledge Representation**  pre-req: CITS2200 AND CITS2211 | **CITS3200: Professional Computing**  pre-req: at least 84pts including CITS2002 or CITS2200 | **ELECTIVE** |
| **YEAR 4** | SEM 1 | **CITS3002: Computer Networks** pre-req: CITS2002 | **CITS3403: Agile Web Development**  pre-req: CITS2200 | **CITS5508: Machine Learning** Group B option unit pre-req: CITS1401 | **ELECTIVE** |
| SEM 2 | **CITS4010: Computer Science Honours Research Project Part 1** pre-req: completed min. 120 pts | | **CITS5017: Deep Learning** Group B option unit pre-req: CITS5508 | **Group A Option unit** e.g., CITS4403 |
| **YEAR 5** | SEM 1 | **CITS4011: Computer Science Honours Research Project Part 2** pre-req: CITS4010 | | **Group A Option unit** e.g., CITS4012, CITS4402 or CITS4404 | **ELECTIVE** |

\*\* Unit is available in Semester 1 and Semester 2  
**Note -**

* MJD-CDSCM Artificial Intelligence major overview and unit details can be found here: <https://handbooks.uwa.edu.au/majordetails?code=MJD-ARIDM#units>
* Course details are in the Handbook. For example: Bachelor of Science rules are here: <https://handbooks.uwa.edu.au/coursedetails?code=BH008#rules>
* 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/) and [Handbooks](https://handbooks.uwa.edu.au/)
* Plan ahead! Look at prerequisite requirements in the Handbook. For example: Level 5 option unit CITS5017 requires prerequisite unit CITS5508.

# Make sure your study plan includes:

# Choose a degree-specific major

You must complete at least one degree-specific major. Make sure you include core units and option units.

# Include foundation units (if applicable)

You must complete any foundation units required for your degree. Foundation units are compulsory, regardless of your choice of degree-specific major. Check your course rules to see if foundational units are required for your course.  
Bachelor of Advanced Computer Science does not have foundation units.

# Include bridging units (if applicable)

You may be required to complete bridging units if you have not completed the pre-requisite ATAR-level study (or equivalent qualification) for your major/s.

# Choose a second major or minor (optional)

You can complete a second major or minor from any degree area as long as you meet the prerequisites. It is not compulsory to choose a second major or minor, but specialising in a second discipline will add to your qualification and employment prospects.  
<handbooks.uwa.edu.au/search/?type=majors><handbooks.uwa.edu.au/search/?type=minors>

# Choose electives

Once you’ve included all the units for your majors, minors, foundational units, bridging units and broadening requirements you may have space for electives. Electives can be chosen from any units offered in your course, subject to unit rules. View the list: <handbooks.uwa.edu.au/undergraduate/electives>

* + a total of 32 units
  + **no more** than **12 Level 1** units (72 credit points)
  + **at least 12** units at **Level 2 and Level 3** (72 credit points)
  + including **at least 3 units** at **Level 3** (18 credit points)
  + at least **4 units outside** your **degree-specific major** (24 credit points)

This is based on the Bachelor of Advanced Computer Science Honours (BH008) four-year degree. Students in a combined-degree should refer to their program’s course rules.

Full details of course structure and rules can be found in the Handbook:

<handbooks.uwa.edu.au/undergraduate>

**TIP:** Level 1 electives can be taken at any time during your degree as long as you do not exceed the maximum Level 1 limit. Similarly, Level 3 units can be taken earlier in your degree, so long as you meet unit prerequisites.

# Enrol on studentConnect and plan your timetable on the Class Allocation System

* studentConnect: <student.uwa.edu.au/course/studentconnect>
* Class Allocation System (CAS): <cas.uwa.edu.au>

**HELP!**Refer to the UniStart website for your step-by-step guide on planning your enrolment: <uwa.edu.au/unistart> For other questions find ‘FAQs’ and ‘Email Us’ in askUWA: [ask.uwa.edu.au](https://ipoint.uwa.edu.au/)

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A standard full-time study load is four units per semester. All units have a value of six points unless otherwise stated. To check that you’re on track to meet your course requirements use the My Course Study Plan Checklist or get your study plan checked by a student advisor in your assigned Student Advising Office (displayed on studentConnect). First-year students who are unsure which major/s they want to study are advised to fill out the My First Year Study Plan & Checklist. Information in this study plan is correct at the time of publication and is subject to change from time to time. The University reserves the right to change the unit availability and unit rules, please refer to the Handbook each semester.