## **MAJOR: Data Science (MJD-DATSC) – Semester 1 start** 12 x Core units

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| **YEAR 1** | SEM 1 | **PHIL1001: Ethics for the Digital Age:  An Introduction to Moral Philosophy** | **CITS1402: Relational Database Management Systems\*\*** pre-req: ATAR Math Applications or MATH1720 | **ELECTIVE**  Or Bridging Unit (e.g., MATH1721) | **ELECTIVE** |
| SEM 2 | **STAT1400: Statistics for Science\*\***  pre-req: ATAR Math Applications or MATH1720 | **CITS1401: Computational Thinking  with Python\*\***  pre-req: ATAR Math Methods or MATH1721 | **ELECTIVE** | **ELECTIVE** |
| **YEAR 2** | SEM 1 | **STAT2401: Analysis of Experiments**  pre-req: ATAR Math Applications or MATHS1720 | **ELECTIVE** | **ELECTIVE** | **ELECTIVE** |
| SEM 2 | **CITS2402: Introduction to Data Science** pre-req: CITS1401 | **STAT2402: Analysis of Observations**  pre-req: ATAR Math Applications or MATH1720 | **ELECTIVE** | **ELECTIVE** Level 2/3 |
| **YEAR 3** | SEM 1 | **CITS3401: Data Warehousing**  pre-req: CITS1402  AND  6pts of programming-based units | **CITS3403: Agile Web Development**  pre-req: CITS1401 or CITS2002 | **ELECTIVE** Level 2/3 | **ELECTIVE** Level 2/3 |
| SEM 2 | **CITS3200: Professional Computing**  pre-req: completed min. 84 points including CITS2402 or CITS2002 or CITS2200 | **STAT3064: Statistical Learning** pre-req: STAT2401 AND STAT2402  (OR STAT2062) | **STAT3405: Introduction to Bayesian Computing and Statistics** pre-req: STAT2401 AND STAT2402  (OR STAT2062) | **ELECTIVE** Level 2/3 |

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

**NOTES**

* Course details are in the Handbook. For example: Bachelor of Science rules are here: <https://handbooks.uwa.edu.au/coursedetails?code=bp004#rules>
* MJD-DATSC Computer Science major overview and unit details can found here: <https://handbooks.uwa.edu.au/majordetails?code=MJD-DATSC#units>
* Plan ahead! Look at prerequisite requirements in the Handbook. For example: Level 3 unit STAT3064 requires pre-requisite units STAT2401AND STAT2402 (or STAT2062).
* 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/)

## **MAJOR: Data Science (MJD-DATSC) – Semester 2 start** 12 x Core units

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| **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 | **ELECTIVE** | **ELECTIVE** |
| **YEAR 2** | SEM 1 | **STAT1400: Statistics for Science\*\***  pre-req: ATAR Math Applications or MATH1720 | **PHIL1001: Ethics for the Digital Age:  An Introduction to Moral Philosophy** | **ELECTIVE** | **ELECTIVE** |
| SEM 2 | **CITS2402: Introduction to Data Science** pre-req: CITS1401 | **STAT2402: Analysis of Observations**  pre-req: ATAR Math Applications or MATH1720 | **ELECTIVE** | **ELECTIVE** |
| **YEAR 3** | SEM 1 | **STAT2401: Analysis of Experiments**  pre-req: ATAR Math Applications or MATHS1720 | **ELECTIVE** | **ELECTIVE** | **ELECTIVE** Level 2/3 |
| SEM 2 | **CITS3200: Professional Computing**  pre-req: completed min. 84 points including CITS2402 or CITS2002 or CITS2200 | **STAT3064: Statistical Learning** pre-req: STAT2401 AND STAT2402  (OR STAT2062) | **STAT3405: Introduction to Bayesian Computing and Statistics** pre-req: STAT2401 AND STAT2402  (OR STAT2062) | **ELECTIVE** Level 2/3 |
| **YEAR 4** | SEM 1 | **CITS3401: Data Warehousing**  pre-req: CITS1402  AND  6pts of programming-based units | **CITS3403: Agile Web Development**  pre-req: CITS1401 or CITS2002 | **ELECTIVE** Level 2/3 | **ELECTIVE** Level 2/3 |

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

**NOTES**

* Course details are in the Handbook. For example: Bachelor of Science rules are here: <https://handbooks.uwa.edu.au/coursedetails?code=bp004#rules>
* MJD-DATSC Computer Science major overview and unit details can found here: <https://handbooks.uwa.edu.au/majordetails?code=MJD-DATSC#units>
* Plan ahead! Look at prerequisite requirements in the Handbook. For example: Level 3 unit STAT3064 requires pre-requisite units STAT2401 AND STAT2402 (or STAT2062).
* 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/)

# Choose a degree-specific major

# Make sure your study plan includes:

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 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.   
Bridging units may include:  
MATH1720 Mathematics Fundamentals – equivalent to ATAR Math Applications   
MATH1721 Mathematics Foundations: Methods – equivalent to ATAR Math Methods

# 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 24 units
  + no more than 12 **Level 1** units (96 credit points)
  + at least 3 **Level 3** units (18 credit points)

This is based on the Bachelor of Science (BP004) three-year degree. Students in a four-year or 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.