|  |  |
| --- | --- |
| \*\* Offered in Both Semesters | BSc component of combined degree (minimum 12 units) |
| *Year 1**Semester 1**2022* | BE Unit | BE Unit | BE Unit | **CITS1001\*\***Software Engineering with Java |
| *Year 1**Semester 2**2022* | BE Unit | BE Unit | BE Unit | **CITS1402**Relational Database Management System |
| *Year 2**Semester 1**2023* | BE Unit | BE Unit | **CITS1003**Intro to Cybersecurity | **CITS2200**Data Structures & Algorithms***Prereq: CITS1001*** |
| *Year 2**Semester 2**2023* | BE Unit | BE Unit | **CITS2211**Discrete Structures***Prereq: 6 pts programming-based units ‡*** | **CITS2002**Systems Programming***Prereq: 6 pts programming-based units ‡*** |
| *Year 3**Semester 1**2024* | BE Unit | BE Unit | BE Unit | **CITS3403**Agile Web Development***Prereq: CITS1001 or CITS2002*** |
| *Year 3**Semester 2**2024* | BE Unit | BE Unit | BE Unit | **CITS3001**Algorithms, Agents & AI***Prereq: CITS2200*** |
| *Year 4**Semester 1**2025* | BE Unit | BE Unit | BE Unit | **CITS3002**Computer Networks***Prereq: CITS2002*** |
| *Year 4**Semester 2**2025* | BE Unit | BE Unit | BE Unit | **CITS3200**Professional Computing***Prereq: 84 pts incl CITS1001, CITS2200 &******CITS2002*** |
| *Year 5**Semester 1**2026* | BE Unit | BE Unit | BE Unit | **CS Option #** |
| *Year 5**Semester 2**2026* | BE Unit | BE Unit | BE Unit | **CS Option #** |

Additionally, students must complete GENG1000, GENG2000 & GENG3000 Engineering Practice Skills (0 pts = 3 x 1week modules) and GENG5010 Professional Eng. Portfolio (0 pts)

# # Computer Science Option Units: Take units to the value of 12 points from this group:

|  |  |  |  |
| --- | --- | --- | --- |
| **CITS3003** (S1)Graphics and Animation***Prereq: CITS1001 or CITS2002*** | **CITS3005** (S2)Knowledge Representation***Prereq: CITS2200 and CITS2211*** | **CITS3007** (S2)Secure Coding***Prereq: 12 points of programming-based units ‡*** | **CITS3402** (S2)High Performance Computing***Prereq: CITS2002*** |

***‡*** *Programming-based units include: CITS1001 Software Engineering with Java; CITS1401 Computational Thinking with Python; CITS2002 Systems Programming; CITS2200 Data* Structures and Algorithms; CITS2401 Computer Analysis and Visualisation; CITS2402 Introduction to Data Science; and CITS4009 Computational Data Analysis.

# Cross-credit arrangements

* **BE(Hons) Automation and Robotics Engineering Major and BSc Computer Science Major: CITS1001, CITS2002, CITS2200 and CITS3001** count towards both the BE(Hons) and BSc component: students must take these units and four additional electives or other units required by their course of study.
* **BE(Hons) Biomedical Engineering Major and BSc Computer Science Major: CITS1001** counts towards both the BE(Hons) and BSc component: students must take CITS1001 and one additional elective or other unit required by their course of study.

# Additional Information: Incompatibility

The BSc Computer Science major may not be taken in combination with the BE(Hons) Software Engineering major.

# Further Help

If you need to discuss your study plan further, please contact the [EMS Student Office](https://www.uwa.edu.au/students/my-course/study-areas/ems-students)