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| **Year 1** | | | | |
| *Students must complete* ***GENG1000 Engineering Practice 1*** *within their first year (0 points = 1 week module)* | | | | |
| Semester 1,  2024 | **MATH1011\*\***  Multivariable Calculus  ***Prereq: Math Specialist ATAR or MATH1722*** | **PHYS1001\*\***  Physics for Scientists & Engineers  ***Prereq: (Physics ATAR or PHYS1030) &***  ***(Math Methods ATAR or MATH1721)***  ***Coreq: MATH1722*** | **CITS1401\*\***  Computational Thinking with Python  ***Prereq: Maths Methods ATAR or MATH1721*** | **GENG1010\*\***  Introduction to Engineering |
| Semester 2,  2024 | **MATH1012\*\***  Mathematical Theory & Methods  ***Prereq: Math Specialist ATAR or MATH1722*** | **CITS1402\*\***  Relational Database Management Systems  ***Prereq: Maths Applications ATAR or MATH1720*** | **CITS1003\*\***  Introduction to Cybersecurity | Broadening |
| **Year 2** | | | | |
| Students must complete **GENG2000 Engineering Practice 2** within their second year (0 points = 1 week module) | | | | |
| Semester 1,  2025 | **CITS2005**  Object Oriented Programming  ***Prereq: CITS1401&***  ***(Maths Methods ATAR or MATH1721)*** | **CITS2200**  Data Structures & Algorithms  ***Prereq: CITS1401&***  ***(Maths Methods ATAR or MATH1721)***  ***APS: 12 pts of programming-based units*** | **STAT2063**  Probabilistic Methods and their Applications  ***Prereq: MATH1011 & MATH1012*** | Broadening |
| Semester 2,  2025 | **ELEC1303**  Digital Systems | **CITS2002**  Systems Programming  ***Prereq: CITS1401 or CITS2401*** | **CITS2211**  Discrete Structures  ***Prereq: (Maths Methods ATAR or MATH1721) &***  ***CITS1401*** | Broadening |
| **Year 3** | | | | |
| Students must complete **GENG3000 Engineering Practice** 3 within their third year (0 points = 1 week module) | | | | |
| Semester 1,  2026 | **CITS3002**  Computer Networks ***Prereq: CITS2002*** | **CITS3301**  Software Requirements and Design  ***Prereq: CITS1001or CITS2005*** | **CITS3403**  Agile Web Development  ***Prereq: CITS1001 or CITS2005 or CITS1401 or CITS2002*** | **CITS3007**  Secure Coding  ***Prereq: CITS2200 or CITS2002 or CITS2005*** |
| Semester 2,  2026 | **ELEC3020**  Embedded Systems ***Prereq: GENG2000 & (CITS2401 or CITS1001 or CITS2005 or CITS1401)*** | **CITS3200**  Professional Computing  ***Prereq: 84 pts incl. (CITS2002 or CITS2200 or CITS2402)*** | **CITS3005**  Knowledge Representation  ***Prereq: CITS2200 & CITS2211*** | Broadening |
| **Year 4** | | | | |
| Students must undertake practical work experience during the course to satisfy **GENG5010 Professional Engineering Portfolio** (0 points) – *see notes below*  *Students must achieve a WAM of at least 50 in order to progress to the fourth (Honours) year – see BE(Hons) rules* | | | | |
| Semester 1,  2027 | **GENG4411\*\***  Engineering Research Project Pt 1  ***Prereq: 144 pts incl. 24 pts Level 3 units in major & GENG3000*** | **GENG5505\*\***  Project Management & Engineering Practice  ***Prereq: 120 pts*** | **CITS4419**  Mobile and Wireless Computing  ***Prereq: 96 pts incl. CITS3002*** | **GENG5507\*\***  Risk, Reliability & Safety  ***Prereq: 120 pts incl. MATH1011 & MATH1012*** |
| Semester 2,  2027 | **GENG4412\*\***  Engineering Research Project Pt 2  ***Prereq: GENG4411***  ***(taken in semester after GENG4411)*** | **CITS5501**  Software Testing and Quality Assurance  ***Prereq: 120 pts incl. CITS3301*** | **CITS5503**  Cloud Computing  ***Prereq: 120 pts incl. 12 pts of programming-based units*** | **CITS5507**  High Performance Computing  ***Prereq: 120 pts incl. 12 pts of programming-based units*** |
| Students must pass all credit bearing and 0-pt units to be eligible to graduate | | | | |

**\*\*** Offered in both semesters

The Rules for the BH011 Bachelor of Engineering (Honours) can be [**found here**](https://handbooks.uwa.edu.au/coursedetails?code=BH011#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 in the [**Handbook**](https://handbooks.uwa.edu.au/).

All students must complete GENG1000, GENG2000 & GENG3000 Engineering Practice Skills modules (0 points = 3 x 1-week modules). Check Handbook for prerequisites.

All students must complete the Professional Engineering Practicum and GENG5010 Professional Eng. Portfolio (0 points). Details are available on the *LMS Organisation EMS Student Experience.*

**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)**.**