|  |
| --- |
| **Year 1** |
| *Students must complete* ***GENG1000 Engineering Practice 1*** *within their first year (0 points = 1 week module)* |
| Semester 1,2025 | **MATH1011\*\*** Multivariable Calculus***Prereq: Math Specialist ATAR or MATH1722*** | **CITS1401\*\*** Computational Thinking with Python ***Prereq: Maths Methods ATAR or MATH1721*** | **CITS1003\*\***Introduction to Cybersecurity | **GENG1010\*\*** Introduction to Engineering  |
| Semester 2,2025 | **MATH1012\*\*** Mathematical Theory & Methods***Prereq: Math Specialist ATAR or MATH1722*** | **CITS1402\*\***Relational Database Management Systems***Prereq: Maths Applications ATAR or MATH1720*** | **ELEC1303**Digital Systems | **PHYS1001\*\*** Physics for Scientists & Engineers***Prereq: (Physics ATAR or PHYS1030) &***  ***(Math Methods ATAR or MATH1721)******Coreq: MATH1722*** |
| **Year 2** |
| Students must complete **GENG2000 Engineering Practice 2** within their second year (0 points = 1 week module) |
| Semester 1,2026 | **STAT2063** Probabilistic Methods and their Applications***Prereq: MATH1011 & MATH1012*** | **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*** | Broadening  |
| Semester 2,2026 | **CITS2211**Discrete Structures***Prereq: (Maths Methods ATAR or MATH1721) &*** ***CITS1401*** | **CITS2002**Systems Programming***Prereq: CITS1401 or CITS2401*** | Broadening  | Broadening |
| **Year 3** |
| Students must complete **GENG3000 Engineering Practice** 3 within their third year (0 points = 1 week module) |
| Semester 1,2027 | **CITS3002** Computer Networks***Prereq: CITS2002*** | **CITS3301**Software Requirements and Design***Prereq: CITS2005 or CITS2002******APS: CITS2005*** | **CITS3403**Agile Web Development***Prereq: CITS2005 or CITS1401 or CITS2002*** | **CITS3007**Secure Coding***Prereq: CITS2200 or CITS2002 or CITS2005*** |
| Semester 2,2027 | **CITS3005**Knowledge Representation***Prereq: CITS2200 & CITS2211*** | **CITS3501** Software Testing and Quality Assurance***Prereq: CITS3301*** | **ELEC3020**Embedded Systems***Prereq: GENG2000*** ***& (CITS2401 or CITS2005 or CITS1401)*** | 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 1,2028 | **#GENG4411\*\*** Engineering Research Project Pt 1***Prereq: 144 pts incl. 24 pts Level 3 units in major & GENG3000*** | **#CITS5551**Software EngineeringDesign Project 1***Prereq: CITS3301 and CITS3501*** | **#GENG5505\*\*** Project Management & Engineering Practice***Prereq: 120 pts*** | **#GENG5507\*\***Risk, Reliability & Safety***Prereq: 120 pts incl. MATH1011 & MATH1012*** |
| Semester 2,2028 | **#GENG4412\*\*** Engineering Research Project Pt 2***Prereq: GENG4411******(taken in semester after GENG4411)*** | **#CITS5552**Software EngineeringDesign Project 2***Prereq: CITS5551*** | **#CITS5507** High Performance Computing***Prereq: 120 pts incl. 12 pts of programming-based units*** | **#CITS5503** Cloud 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

**#**All Level 4/5 engineering units also have a WAM prerequisite. See notes on next page.

* 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.*
* Students must maintain a WAM of at least 50 in the BE(Hons). This is required to enrol in Level 4/5 BE(Hons) units.

**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)**.**