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| **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*** | **CITS2401**\*\* Computer Analysis & Visualisation***Prereq: Math Methods ATAR or MATH1721*** | **PHYS1001\*\*** Physics for Scientists & Engineers***Prereq: (Physics ATAR or PHYS1030) &*** ***(Math Methods ATAR or MATH1721)******Coreq: MATH1722*** | **GENG1010\*\*** Introduction to Engineering |
| Semester 2,2025 | **MATH1012\*\*** Mathematical Theory & Methods***Prereq: Math Specialist ATAR or MATH1722*** | **ENSC2003\*\*** Eng. Electrical Fundamentals***Prereq: (Phys ATAR or PHYS1030) & MATH1011******Coreq: MATH1012******APS: PHYS1001*** | **ELEC1303**Digital Systems | **ENSC2004\*\***Engineering Mechanics***Prereq: (Phys ATAR or PHYS1030) and Math Specialist ATAR or MATH1722)******Coreq: MATH1011******APS: PHYS1001 and MATH1011*** |
| **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*** | **ELEC3021** Circuits and Electronics***Prereq: ENSC2003 & MATH1011***   | **PHYS2003**Physics for Electrical Engineers ***Prereq:*** ***MATH1011 & MATH1012 & PHYS1001***  | Broadening  |
| Semester 2,2026 | **MATH3023**Adv. Mathematics Applications***Prereq: MATH1011*** ***Coreq: MATH1012*** | **ELEC3015** Signals and Systems***Prereq: CITS2401 & ENSC2003 & MATH1012*** | **ELEC2311**Digital System Design ***Prereq: ELEC1303*** | **ELEC3016** Power and Machines***Prereq:*** ***ENSC2003 & MATH1012*** ***APS: PHYS1001*** |
| **Year 3** |
| Students must complete **GENG3000 Engineering Practice** 3 within their third year (0 points = 1 week module) |
| Semester 1,2027 | **ELEC3014** Electronic Materials and Devices***Prereq: ENSC2003 & MATH1012 & PHYS1001*** | **#ELEC4404** Signal Processing***Prereq: CITS2401 & ELEC3015 & STAT2063*** | **#ELEC4407** Engineering Electromagnetics***Prereq: ELEC3021& MATH3023 & PHYS2003*** | **#ELEC4505** Power System Analysis***Prereq: 96 pts incl. ELEC3016*** |
| Semester 2,2027 | **ELEC3020** Embedded Systems***Prereq: GENG2000 &*** ***(CITS2401 or CITS1001 or CITS2005 or CITS1401)*** | **#ELEC4402** Communications Systems***Prereq: STAT2063 & ELEC3015 & MATH3023*** | **GENG3402** Control Engineering***Prereq: MATH1011 & MATH1012*** | 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*** | **#ELEC4408** High Frequency Circuits and Systems***Prereq: ELEC3021 & MATH3023*** | **#ELEC5506** Process Instrumentation and Control***Prereq: 120 pts incl. GENG3402******APS: ENSC2003*** | Broadening |
| Semester 2,2028 | **#GENG4412\*\*** Engineering Research Project Pt 2***Prereq: GENG4411******(taken in semester after GENG4411)*** | **#ELEC5552**Electrical & Electronic EngineeringDesign Project***Prereq: 120 pts incl. GENG3000*** | **#GENG5505\*\*** Project Management & Engineering Practice***Prereq: 120 pts*** | Broadening |
| 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)**.**