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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 Engineering  Design 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)**.**