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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*** | **GENG1010\*\***  Introduction to Engineering | **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*** |
| Semester 2,  2024 | **MATH1012\*\***  Mathematical Theory & Methods  ***Prereq: Math Specialist ATAR or MATH1722*** | **ENSC2004\*\***  Engineering Mechanics  ***Prereq: (Phys ATAR or PHYS1030) &***  ***(Math Specialist ATAR or MATH1722)***  ***Coreq: MATH1011***  ***APS: PHYS1001 and MATH1011*** | **EART1104**  Discovering Earth | **GENG1014**  Earth Systems Engineering |
| **Year 2** | | | | |
| Students must complete **GENG2000 Engineering Practice 2** within their second year (0 points = 1 week module) | | | | |
| Semester 1,  2025 | **CHEM1001\*\***  Chemistry—Properties and Energetics  ***Prereqs: Chemistry ATAR or CHEM1003*** | **GENG2004**  Solid Mechanics  ***Prereq: ENSC2004 & MATH1011 & MATH1012*** | **GENG2009**  Principles of Geomechanics  ***Prereq: MATH1011 & MATH1012 & PHYS1001*** | Broadening |
| Semester 2,  2025 | **GENG2010**  Principles of Hydraulics  ***Prereq: MATH1011 & MATH1012*** | **MINE2001**  Fundamentals of Mining Engineering ***Prereqs: GENG1000*** | **ENSC2003\*\***  Eng. Electrical Fundamentals  ***Prereq: (Phys ATAR or PHYS1030) & MATH1011***  ***Coreq: MATH1012 APS: PHYS1001*** | Broadening |
| **Year 3** | | | | |
| Students must complete **GENG3000 Engineering Practice** 3 within their third year (0 points = 1 week module) | | | | |
| Semester 1,  2026 | **MINE3401**  Underground Mining 1  ***Prereq: MINE2001*** | **MINE3405**  Mineral Resources  ***Prereq: GENG2000 & MINE2001*** | **MINE3503**  Surface Mining  ***Prereq: MINE2001*** | **GENG4403**  Extractive Metallurgy  ***Prereq: 96 pts incl. (ENSC1004 or MINE2001)*** |
| Semester 2,  2026 | **MINE3404**  Rock Mechanics  ***Prereq: GENG2009 & GENG2004 & MINE2001*** | **MINE3406**  Geotechnology of Mine Waste  ***Prereq: MINE2001 & GENG2009*** | **MINE4502**  Underground Mining 2  ***Prereq: MINE3401 & MINE3405*** | 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 1  ***Prereq: 144 pts incl. 24 pts Level 3 units in major & GENG3000*** | **MINE5501**  Mining Management  ***Prereq: MINE3401 & MINE3503*** | **GENG5507\*\***  Risk, Reliability and Safety  ***Prereq: 120 pts incl. MATH1011 & MATH1012*** | Broadening |
| Semester 2,  2027 | **GENG4412\*\***  Engineering Research Project 2  ***Prereq: GENG4411***  ***(taken in semester after GENG4411)*** | **MINE5551**  Mining Engineering Design Project 1  ***Prereq: GENG3000 & MINE3405 & MINE3503*** | **MINE4001**  Mining Engineering Services  ***Prereq: GENG3000 & MINE3401 & MINE3503*** | **GENG5505\*\***  Project Management & Engineering Practice  ***Prereq: 120 pts*** |
| 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)**.**