|  |
| --- |
| **Year 1** |
| *Students must complete* ***GENG1000 Engineering Practice 1*** *within their first year (0 points = 1 week module)* |
| Semester 2,2025 | **MATH1011\*\*** Multivariable Calculus***Prereq: Math Specialist ATAR or MATH1722*** | **EART1104**Discovering Earth | **GENG1014**Earth Systems Engineering | **GENG1010\*\***Introduction to Engineering |
| Semester 1,2026 | **MATH1012\*\*** Mathematical Theory & Methods***Prereq: Math Specialist ATAR or MATH1722*** | **PHYS1001\*\*** Physics for Scientists & Engineers***Prereq: (Physics ATAR or PHYS1030)*** ***& (Math Methods ATAR or MATH1721)*** ***Coreq: MATH1722*** | **CHEM1001\*\*** Chemistry—Properties and Energetics***Prereqs: Chemistry ATAR or CHEM1003*** | Broadening  |
| **Year 2** |
| Students must complete **GENG2000 Engineering Practice 2** within their second year (0 points = 1 week module) |
| Semester 2,2026 | **ENSC2003\*\*** Eng. Electrical Fundamentals***Prereq: (Phys ATAR or PHYS1030) & MATH1011******Coreq: MATH1012 APS: PHYS1001*** | **GENG2010** Principles of Hydraulics ***Prereq: MATH1011 & MATH1012*** | **MINE2001**Fundamentals of Mining Engineering***Prereqs: GENG1000*** | **ENSC2004\*\***Engineering Mechanics***Prereq: (Phys ATAR or PHYS1030) &*** ***Math Specialist ATAR or MATH1722)******Coreq: MATH1011******APS: PHYS1001 and MATH1011*** |
| Semester 1,2027 | **GENG2004**Solid Mechanics ***Prereq: ENSC2004 & MATH1011 & MATH1012*** | **GENG2009**Principles of Geomechanics***Prereq: MATH1011 & MATH1012 & PHYS1001*** | **CITS2401**\*\* Computer Analysis & Visualisation ***Prereq: Math Methods ATAR or MATH1721*** | Broadening |
| **Year 3** |
| Students must complete **GENG3000 Engineering Practice** 3 within their third year (0 points = 1 week module) |
| Semester 2,2027 | **MINE3404**Rock Mechanics***Prereq: GENG2009 & GENG2004 & MINE2001*** | **MINE3406**Geotechnology of Mine Waste***Prereq: MINE2001 & GENG2009*** | Broadening | Broadening |
| Semester 1,2028 | **MINE3503**Surface Mining***Prereq: MINE2001*** | **MINE3405**Mineral Resources***Prereq: GENG2000 & MINE2001*** | **MINE3401**Underground Mining 1 ***Prereq: MINE2001*** | **#GENG4403**Extractive Metallurgy***Prereq: 96 pts inc. (ENSC1004 or MINE2001)*** |
| **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 2,2028 | **#GENG4411\*\***Engineering Research Project 1***Prereq: 144 pts inc. 24 pts Level 3 units in major & GENG3000*** | **#MINE4001**Mining Engineering Services***Prereq: GENG3000 & MINE3401 & MINE3503*** | **#MINE4502** Underground Mining 2***Prereq: MINE3401 & MINE3405*** | **#MINE5551**Mining Engineering Design Project 1***Prereq: GENG3000 & MINE3405 & MINE3503*** |
| Semester 1,2029 | **#GENG4412\*\***Engineering Research Project 2***Prereq: GENG4411******(taken in semester after GENG4411)*** | **#MINE5501**Mining Management***Prereq: MINE3401 & MINE3503*** | **#GENG5507\*\***Risk, Reliability and Safety***Prereq: 120 pts inc. MATH1011 & MATH1012*** | **#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

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

NOTE: Mining Engineering students are encouraged to do **MINE5552** Mining Engineering Design Project 2 as a broadening unit if it can be accommodated in their study plan.

* 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)**.**