|  |
| --- |
| **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*** | **PHYS1001\*\*** Physics for Scientists & Engineers***Prereq: (Physics ATAR or PHYS1030) &*** ***(Math Methods ATAR or MATH1721)******Coreq: MATH1722*** | **CHEM1001\*\*** Chemistry—Properties and Energetics ***Prereq: Chemistry ATAR or CHEM1003*** | **GENG1010\*\*** Introduction to Engineering |
| Semester 2,2025 | **MATH1012\*\*** Mathematical Theory & Methods***Prereq: Math Specialist ATAR or MATH1722*** | **CITS2401** \*\*Computer Analysis & Visualisation ***Prereq: Math Methods ATAR or MATH1721*** | **ENSC2004\*\***Engineering Mechanics***Prereq: (Phys ATAR or PHYS1030) &*** ***(Math Specialist ATAR or MATH1722)******Coreq: MATH1011******APS: PHYS1001 and MATH1011*** | **GENG1014** Earth Systems Engineering |
| **Year 2** |
| Students must complete **GENG2000 Engineering Practice 2** within their second year (0 points = 1 week module) |
| Semester 1,2026 | **ENVE2013** Coastal Engineering Processes ***Preerq: MATH1012******APS: GENG1014*** | **GEOG2201\*\*** Geographical Information Systems ***Prereq: 36 pts*** | **ENVE2607** Modelling in Environmental Engineering ***Prereq: GENG1014******Co-req: CITS2401 APS: MATH1011*** | Broadening  |
| Semester 2,2026 | **GENG2012** Data Collection and Analysis***Prereq: CITS2401 & MATH1012*** | **ENVE2606** Grand Challenges in Environmental Engineering ***Prereq: GENG1010 & GENG1014 & GENG1000******Co-req: CITS2401*** | **GENG2010**Principles of Hydraulics ***Prereq: MATH1011 & MATH1012*** | **ENVT2251** Hydrology and Water Resource Management ***Prereq: GENG1014*** |
| **Year 3** |
| Students must complete **GENG3000 Engineering Practice** 3 within their third year (0 points = 1 week module) |
| Semester 1,2027 | **ENVE3402** Engineering Hydrology***Prereq: GENG1014*** | **ENVE3609** Designing as an Environmental Engineer ***Prereq: ENVE2606 & GENG2000*** | **ENVE3403** Flow and Turbulence in Environmental Systems ***Prereq: GENG2010 or GENG2003*** | **ENVE3405** Ecological Engineering & Nature-based Solutions***Prereq: 96 pts*** |
| Semester 2,2027 | **ENVE3608** Environmental Monitoring and Analysis***Prereq: GENG2012*** | **#ENVE5551**Environmental Engineering Design Solutions Part 1 ***Prereq: ENVE3609 & GENG3000*** | **#ENVE4401** Contaminant Fate and Transport ***Prereq: 96 pts incl. (GENG2010 or GENG2003)*** | 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*** | **#ENVE5552**Environmental Engineering Design Solutions Part 2 ***Prereq: ENVE5551*** | **#GENG5501** Coastal and Offshore Engineering***Prereq: 120 pts incl. (GENG2010 or GENG2003)***  | Broadening |
| Semester 2,2028 | **#GENG4412\*\*** Engineering Research Project Pt 2***Prereq: GENG4411******(taken in semester after GENG4411)*** | **#ENVE4601** Advanced EnvironmentalModelling***Prereq: ENVE2607 & ENVE4401 & ENVE3403*** | **#ENVE5502** Water & Wastewater Engineering ***Prereq: 120 pts incl. (GENG2010 or GENG2003)*** | 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)**.**