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| **Year 1** |
| *Students must complete* ***GENG1000 Engineering Practice 1*** *within their first year (0 points = 1 week module)* |
| Semester 2,2025 | **MATH1722\*\***Mathematics Foundations: Specialist***Prereq: Maths Methods ATAR or MATH1721 – see notes*** | ***CHEM1003****\*\* Intro Chemistry* ***OR*** ***PHYS1030\*\**** *Bridging Physics* ***Prereq: Maths Methods ATAR or MATH1721 or MATH1722 – see notes*** | **GENG1010\*\*** Introduction to Engineering  | **ELEC1303**Digital Systems |
| Semester 1,2026 | **CITS1401\*\*** Computational Thinking with Python ***Prereq: Math Applications ATAR or MATH1720*** | **MATH1011\*\*** Multivariable Calculus***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*** | **MATH1012\*\*** Mathematical Theory & Methods***Prereq: Math Specialist ATAR or MATH1722*** |
| **Year 2** |
| Students must complete **GENG2000 Engineering Practice 2** within their second year (0 points = 1 week module) |
| Semester 2,2026 | **CITS2002**Systems Programming***Prereq: 6pts of programming units***  | **ENSC1004**Engineering Materials***Prereq: (Chem ATAR or CHEM1003) &*** ***(Maths Methods ATAR or MATH1721) & (Phys ATAR or PHYS1030)*** | **MECH2004**Engineering Dynamics***Prereq: ENSC2004 & MATH1011 & MATH1012*** | **ELEC2311**Digital System Design***Prereq: ELEC1303*** |
| Semester 1,2027 | **CITS2200** Data Structures & Algorithms***Prereq: CITS1401 &*** ***(Maths Methods ATAR or MATH1721)*** | Broadening | **GENG2004** Solid Mechanics***Prereq: ENSC2004 & MATH1011 & MATH1012*** | **ENSC2003\*\*** Eng. Electrical Fundamentals***Prereq: (Phys ATAR or PHYS1030) & MATH1011******Coreq: MATH1012 APS: PHYS1001*** |
| **Year 3** |
| Students must complete **GENG3000 Engineering Practice** 3 within their third year (0 points = 1 week module) |
| Semester 2,2027 | **CITS3011**Intelligent Agents***Prereq: CITS2200*** | **ELEC3020**Embedded Systems***Prereq: GENG2000 & (CITS1001 or CITS1401 or CITS2005 or CITS2401)*** | **MECH3001**Mechanisms and Machines***Prereq: (CITS1401 or CITS2401) & MECH2004*** | **GENG3402**Control Engineering***Prereq: MATH1011 & MATH1012*** |
| Semester 1,2028 | **#CITS4402** Computer Vision***Prereq: 96 points incl.*** ***(CITS2401 or CITS14001) & MATH1012*** | **AUTO3002**Mechatronics***Prereq: (ELEC3020 or ENSC3020) &*** ***GENG2000*** | **#GENG5505\*\***Project Management & Engineering Practice***Prereq: 120pts***  | 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 2,2028 | **#GENG4411\*\***Engineering Research Project 1***Prereq: 144 pts inc. 24 pts Level 3 units in major & GENG3000*** | **#AUTO4507 (See Notes)**Robot Manipulators***Prereq: 96 points incl.*** ***(CITS1401 or CITS1000 or CITS2401) & (MECH3001 or ELEC3020)***  | **MECH3424**Measurement and Instrumentation ***Prereq: (CITS1401 or CITS2401) & ENSC2004 & MATH1012 & GENG2000*** | **ELEC3016**Power and Machines***Prereq:*** ***ENSC2003 & MATH1012*** |
| Semester 1,2029 | **#GENG4412\*\***Engineering Research Project 2***Prereq: GENG4411******(taken in semester after GENG4411)*** | **#AUTO4508**Mobile Robots***Prereq: 96 points incl.******(CITS1001 or CITS1401 or CITS2002 or CITS2401)*** | **#GENG5507\*\***Risk, Reliability & Safety***Prereq: 120pts incl. MATH1011 & MATH1012*** | **#ELEC5506**Process Instrumentation and Control***Prereq: 120 pts incl. GENG3402******APS: ENSC2003*** |
| 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.
* AUTO4507 will be offered in both Sem 1 and Sem 2 in 2025. From 2026 it will only be offered in Sem 2.

**A Note about Bridging**

Up to 12 points of bridging can be accommodated in this course. Bridging units must be successfully completed within the first 48 points of study.

• Students who have not achieved a scaled mark of at least 50 in Mathematics Specialist ATAR or equivalent are required to complete MATH1722.

• Students who have not achieved a scaled mark of at least 50 in Physics ATAR or equivalent are required to complete PHYS1030.

• Students who have not achieved a scaled mark of at least 50 in Chemistry ATAR or equivalent are required to complete CHEM1003.

Students who need to bridge in only one subject will have space to include three broadening units in the course.

*Students who bridge outside of the course and then transfer can only seek advanced standing for up two bridging units. You cannot claim advanced standing for MATH1721 Mathematics Foundations: Methods or equivalent.*

**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)**.**

Recommended units for Broadening slots are given on next page.