



Swansea University
Prifysgol Abertawe

FACULTY OF SCIENCE AND ENGINEERING

UNDERGRADUATE TAUGHT STUDENT HANDBOOK

YEAR 0 (FHEQ LEVEL 3)

**FOUNDATION ENGINEERING
DEGREE PROGRAMMES**

**SUBJECT SPECIFIC
PART TWO OF TWO
MODULE AND COURSE STRUCTURE
2025-26**

DISCLAIMER

The Faculty of Science and Engineering has made all reasonable efforts to ensure that the information contained within this publication is accurate and up-to-date when published but can accept no responsibility for any errors or omissions.

The Faculty of Science and Engineering reserves the right to revise, alter or discontinue degree programmes or modules and to amend regulations and procedures at any time, but every effort will be made to notify interested parties.

It should be noted that not every module listed in this handbook may be available every year, and changes may be made to the details of the modules. You are advised to contact the Faculty of Science and Engineering directly if you require further information.

IMPORTANT

Term Dates

The 25-26 academic year begins on 29 September 2025

Full term dates can be found [here](#)

Academic Integrity

Swansea University and the Faculty of Science of Engineering takes any form of **academic misconduct** very seriously. In order to maintain academic integrity and ensure that the quality of an Award from Swansea University is not diminished, it is important to ensure that all students are judged on their ability. No student should have an unfair advantage over another as a result of academic misconduct - whether this is in the form of **Plagiarism**, **Collusion** or **Commissioning**.

It is important that you are aware of the **guidelines** governing Academic Misconduct within the University/Faculty of Science and Engineering and the possible implications. The Faculty of Science and Engineering will not take intent into consideration and in relation to an allegation of academic misconduct - there can be no defence that the offence was committed unintentionally or accidentally.

Please ensure that you read the University webpages covering the topic – procedural guidance [here](#) and further information [here](#). You should also read the Faculty Part One handbook fully, in particular the pages that concern Academic Misconduct/Academic Integrity.

The difference between compulsory and core modules

Compulsory modules must be **pursued** by a student.

Core modules must not only be **pursued**, but also **passed** before a student can proceed to the next level of study or qualify for an award. Failures in core modules must be redeemed.

Further information can be found under “Modular Terminology” on the following link - <https://myuni.swansea.ac.uk/academic-life/academic-regulations/taught-guidance/essential-info-taught-students/your-programme-explained/>

Key Programme Staff

| Electronic and Electrical Engineering Programme Director | Foundation Engineering Year Coordinator |
|---|--|
| Dr Augustine Egwebe | To be confirmed |

FACULTY OF SCIENCE AND ENGINEERING

Progression Requirements from Year 0 Foundation Year to Year 1 Undergraduate Programmes (2025-26)

The following progression requirements ensure that the Foundation Year meets the requirements of the Professional Institutions which accredit our degrees.

The normal University Progression rules require you to pass all modules with at least 40% in each module. You can have up to 20 credits with marks between 30% and 40% and still progress. These are known as “tolerated failures”. However, certain modules are classed as ‘Core’ and **a minimum mark of 40%** must be attained in each of these modules. The table below shows which modules are ‘Core’ for progression to which Year 1 programmes.

| DEGREE SCHEMES | | EG-003 | EG-001 | EG-002 | EG-091 |
|--|-------|--------|--------|--------|--------|
| Aerospace Engineering | | CORE | CORE | CORE | |
| H405 | FEGAS | | | | |
| Chemical Engineering | | CORE | CORE | CORE | |
| H835 | FEGBS | | | | |
| Civil Engineering | | CORE | CORE | CORE | |
| H205 | FCIVS | | | | |
| Electronic & Electrical Engineering | | | CORE | CORE | |
| H605 | FEEES | | | | |
| General Engineering | | CORE | CORE | CORE | |
| H101 | FEGVS | | | | |
| Materials Engineering | | | CORE | | |
| J505 | FMTSS | | | | |
| Mechanical Engineering | | CORE | CORE | CORE | |
| H307 | FMECS | | | | |
| Biomedical Engineering | | CORE | CORE | CORE | |
| HBC9 | FEGHS | | | | |

Year 0 (FHEQ Level 3) 2025/26

Foundation Year

BEng Aerospace Engineering[H405]

BEng Biomedical Engineering[HBC9]

BEng Chemical Engineering[H835]

BEng Civil Engineering[H205]

BEng Engineering with Deferred Choice of Specialism with a Foundation Year[H101]

BEng General Engineering[H901]

BEng Mechanical Engineering[H307]

| Semester 1 Modules | Semester 2 Modules |
|--|---|
| EG-001 Foundation Mathematics for Engineers I 15 Credits Prof SP Jeffs/Dr DR Daniels CORE | EG-002 Foundation Mathematics for Engineers II 15 Credits Dr AJ Williams/Dr AM Higgins CORE |
| EG-091 Chemistry of Materials 15 Credits Prof PJ Holliman/Prof E Andreoli/Prof HM Davies | EG-003 Applied Engineering 30 Credits Dr C Wang/Dr AM Higgins/Dr B Sandnes CORE |
| EG-092 Fundamentals of Engineering Science 15 Credits Prof WC Tsoi/Dr A Egwebe | |
| EGT001 Engineering Tutorials: Foundation Year 0 Credits Prof JC Arnold | |
| EG-000 Fundamentals of Engineering Design 30 Credits Dr MR Brown/Dr WG Bennett/Dr Y Hou/Dr B Morgan | |
| Total 120 Credits | |

Year 0 (FHEQ Level 3) 2025/26
Foundation Year
 BEng Electronic and Electrical Engineering[H605]

| Semester 1 Modules | Semester 2 Modules |
|---|--|
| <u>EG-001</u> Foundation Mathematics for Engineers I 15 Credits Prof SP Jeffs/Dr DR Daniels CORE | <u>EG-002</u> Foundation Mathematics for Engineers II 15 Credits Dr AJ Williams/Dr AM Higgins CORE |
| <u>EG-091</u> Chemistry of Materials 15 Credits Prof PJ Holliman/Prof E Andreoli/Prof HM Davies | <u>EG-003</u> Applied Engineering 30 Credits Dr C Wang/Dr AM Higgins/Dr B Sandnes |
| <u>EG-092</u> Fundamentals of Engineering Science 15 Credits Prof WC Tsoi/Dr A Egwebe | |
| <u>EGT001</u> Engineering Tutorials: Foundation Year 0 Credits Prof JC Arnold | |
| <u>EG-000</u> Fundamentals of Engineering Design 30 Credits Dr MR Brown/Dr WG Bennett/Dr Y Hou/Dr B Morgan | |
| Total 120 Credits | |

Year 0 (FHEQ Level 3) 2025/26
Foundation Year
BEng Materials Science and Engineering[J505]

| Semester 1 Modules | Semester 2 Modules |
|--|---|
| <u>EG-001</u> Foundation Mathematics for Engineers I 15 Credits Prof SP Jeffs/Dr DR Daniels CORE | <u>EG-002</u> Foundation Mathematics for Engineers II 15 Credits Dr AJ Williams/Dr AM Higgins |
| <u>EG-091</u> Chemistry of Materials 15 Credits Prof PJ Holliman/Prof E Andreoli/Prof HM Davies | <u>EG-003</u> Applied Engineering 30 Credits Dr C Wang/Dr AM Higgins/Dr B Sandnes |
| <u>EG-092</u> Fundamentals of Engineering Science 15 Credits Prof WC Tsoi/Dr A Egwebe | |
| <u>EGT001</u> Engineering Tutorials: Foundation Year 0 Credits Prof JC Arnold | |
| <u>EG-000</u> Fundamentals of Engineering Design 30 Credits Dr MR Brown/Dr WG Bennett/Dr Y Hou/Dr B Morgan | |
| Total 120 Credits | |