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
2024-25

Welcome to the Faculty of Science and Engineering!

Whether you are a new or a returning student, we could not be happier to be on this journey with you.

At Swansea University and in the Faculty of Science and Engineering, we believe in working in partnership with students. We work hard to break down barriers and value the contribution of everyone.

Our goal is an inclusive community where everyone is respected, and everyone's contributions are valued. Always feel free to talk to academic, technical and administrative staff, administrators - I'm sure you will find many friendly helping hands ready to assist you. And make the most of living and working alongside your fellow students.

During your time with us, please learn, create, collaborate, and most of all – enjoy yourself!

Professor David Smith
Pro-Vice-Chancellor and Executive Dean
Faculty of Science and Engineering

Faculty of Science and Engineering	
Pro-Vice-Chancellor and Executive Dean	Professor David Smith
Head of Operations	Mrs Ruth Bunting
Associate Dean – Education	Dr Laura Roberts
School of Aerospace, Civil, Electrical and Mechanical Engineering	
Head of School	Professor Antonio Gil
School Education Lead	Professor Cris Arnold
Head of Electronic and Electrical Engineering	Professor Vincent Teng
Foundation Engineering Programme Director	Dr Augustine Egwebe

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.

The 24-25 academic year begins on 23 September 2024

Full term dates can be found here

DATES OF 24-25 TERMS

23 September 2024 – 13 December 2024

06 January 2025 – 11 April 2025

06 May 2025 – 06 June 2025

SEMESTER 1

23 September 2024 – 27 January 2025

SEMESTER 2

27 January 2025 – 06 June 2025

SUMMER

09 June 2025 – 19 September 2025

IMPORTANT INFORMATION ON 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.

STUDENT SUPPORT

The **Student Experience and Information Team** are here to support you through your studies and to provide non-judgemental advice and guidance. If you have any questions relating to your academic or personal life you can contact the Team and chat through your support options.

The Team is available for in-person support meetings and can also be contacted via email (studentsupport-scienceengineering@swansea.ac.uk) or phone **(+44 (0) 1792 295514**). You can access their full contact details here.

To visit the Team you can attend either of the following Receptions:

- Reception in the Foyer of Engineering Central, Bay Campus
- Reception on the first-floor landing of the Wallace Building, Singleton Park Campus

Standard Reception opening hours are Monday to Friday from 9am to 5pm however, this may vary outside of term time.

The current FSE Student webpages also contain useful information and links to additional resources:

READING LISTS

Reading lists for each module are available on the course Canvas page and are also accessible via http://ifindreading.swan.ac.uk/.

We do not expect you to purchase textbooks, unless it is a specified key text for the course.

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/

FACULTY OF SCIENCE AND ENGINEERING

Progression Requirements from Year 0 Foundation Year to Year 1 Undergraduate Programmes (2023-24)

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				
Chemistry					CORE
F10F	FCHEMS				
Civil Engineering		CORE	CORE	CORE	
H205	FCIVS				
Electronic & Electrical Engineering			CORE	CORE	
H605	FEEES				
Engineering		CORE	CORE	CORE	
H101	FEGGS				
Materials Engineering			CORE		
J505	FMTSS				
Mechanical Engineering		CORE	CORE	CORE	
H307	FMECS				

Biomedical Engineering		**CORE**	**CORE**	**CORE**	
HBC9	**FEGLS**				

Year 0 (FHEQ Level 3) 2024/25
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 Mechanical Engineering[H307]

Semester 1 Modules	Semester 2 Modules
EG-001 **Foundation Mathematics for Engineers I** **15 Credits** **Dr 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 G Williams/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** **Dr 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 J Li/Dr B Morgan**	
Total 120 Credits	

Year 0 (FHEQ Level 3) 2024/25
Foundation Year
BEng Electronic and Electrical Engineering[H605]

Semester 1 Modules	Semester 2 Modules
EG-001 Foundation Mathematics for Engineers I 15 Credits Dr 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 G Williams/Prof HM Davies	EG-003 Applied Engineering 30 Credits Dr C Wang/Dr AM Higgins/Dr B Sandnes
EG-092 Fundamentals of Engineering Science 15 Credits Dr 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 J Li/Dr B Morgan	
Total 120 Credits	

Year 0 (FHEQ Level 3) 2024/25
Foundation Year
BEng Materials Science and Engineering[J505]

Semester 1 Modules	Semester 2 Modules
EG-001 Foundation Mathematics for Engineers I 15 Credits Dr SP Jeffs/Dr DR Daniels CORE	EG-002 Foundation Mathematics for Engineers II 15 Credits Dr AJ Williams/Dr AM Higgins
EG-091 Chemistry of Materials 15 Credits Prof G Williams/Prof HM Davies	EG-003 Applied Engineering 30 Credits Dr C Wang/Dr AM Higgins/Dr B Sandnes
EG-092 Fundamentals of Engineering Science 15 Credits Dr 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 J Li/Dr B Morgan	
Total 120 Credits	