Swansea University
Prifysgol Abertawe

FACULTY OF SCIENCE AND ENGINEERING

UNDERGRADUATE STUDENT HANDBOOK

YEAR 3 (FHEQ LEVEL 6)

MATERIALS SCIENCE AND 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

Materials Science and Engineering Programme Director	Materials Science and Engineering Year 3 Coordinator
Dr Amit Das	Professor James Sullivan

Year 3 (FHEQ Level 6) 2025/26
Materials Engineering
BEng Materials Science and Engineering[J500,J505]
MEng Materials Science and Engineering[J504]
MEng Materials Science and Engineering with a Year Abroad[J506]

Semester 1 Modules	Semester 2 Modules
EG-3071 Advanced Optical Materials and Devices 10 Credits Prof WC Tsoi CORE	EG-383 Ceramics 10 Credits Dr E Sackett CORE
EG-381 Fracture and Fatigue 10 Credits Prof RE Johnston CORE	EG-387 Materials Degradation and Protection 10 Credits Prof JH Sullivan CORE
EG-391 Microstructure and Characterisation 10 Credits Dr L Prakash CORE	EG-397 Propulsion 10 Credits Prof MT Whittaker CORE
EG-392 Physical Metallurgy of Steels 10 Credits Dr E Sackett CORE	EGA301 Composite Materials 10 Credits Dr FA Korkees CORE
EG-353 Individual Engineering Project 30 Credits Dr AC Tappenden/Dr M Fazeli/Prof PJ Holliman CORE	
EG-386 Engineering Management 10 Credits Dr JM Courtney CORE	
Total 120 Credits	

Year 3 (FHEQ Level 6) 2025/26
Materials Engineering
MEng Materials Science and Engineering with a Year in Industry[J503]

Semester 1 Modules	Semester 2 Modules
EG-3071 Advanced Optical Materials and Devices 10 Credits Prof WC Tsoi CORE	EG-383 Ceramics 10 Credits Dr E Sackett CORE
EG-381 Fracture and Fatigue 10 Credits Prof RE Johnston CORE	EG-387 Materials Degradation and Protection 10 Credits Prof JH Sullivan CORE
EG-391 Microstructure and Characterisation 10 Credits Dr L Prakash CORE	EG-397 Propulsion 10 Credits Prof MT Whittaker CORE
EG-392 Physical Metallurgy of Steels 10 Credits Dr E Sackett CORE	EGA301 Composite Materials 10 Credits Dr FA Korkees CORE
EG-233 Placement Preparation: Engineering Industrial Year 0 Credits Dr SA Rolland/Dr V Samaras CORE	
EG-353 Individual Engineering Project 30 Credits Dr AC Tappenden/Dr M Fazeli/Prof PJ Holliman CORE	
EG-386 Engineering Management 10 Credits Dr JM Courtney CORE	
Total 120 Credits	