Swansea University
Prifysgol Abertawe

FACULTY OF SCIENCE AND ENGINEERING

UNDERGRADUATE STUDENT HANDBOOK

YEAR 2 (FHEQ LEVEL 5)

BIOMEDICAL 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

Biomedical Engineering Programme Director	Biomedical Engineering Year Coordinator
Dr Adesola Ademiloye	Dr Rob Daniels

Year 2 (FHEQ Level 5) 2025/26
Biomedical Engineering
MEng Biomedical Engineering[HB1V]

Semester 1 Modules	Semester 2 Modules
EG-219 Statistical Methods in Engineering 10 Credits Miss CM Barnes CORE	EG-215 Process Modelling 10 Credits Prof R Van Loon CORE
EG-232 Multivariable Calculus for Medical Engineers 10 Credits Dr AM Higgins CORE	EG-235 Dynamics 1 (Med & Civil) 10 Credits Dr H Madinei CORE
EG-236 Design for Medical Engineering 10 Credits Prof P Rees/Dr F Zhao CORE	EG-238 Experimental Studies for Medical Engineers 10 Credits Miss CM Barnes/Dr S Azizishirvanshahi/Dr DR Daniels/Prof R Van Loon/... CORE
EGA226 Physiological systems 10 Credits Prof HD Summers CORE	EG-256 Fluid Mechanics 1 10 Credits Dr F Del Giudice CORE
PM-230 Selected Medical Diagnostic Techniques 10 Credits Prof KM Hawkins/Prof OJ Guy/Mr AS Pillai/Dr BR Thomas CORE	EG-262 Stress Analysis 1 10 Credits Dr L Prakash CORE
EG-2004 AI, Machine Learning and Data Analysis 20 Credits Prof L Li/Miss CM Barnes/Dr A Das/Dr KM Ennser/Prof C Giannetti/Mr AJ Morgan/... CORE	
EG-277 Research Project Preparation 0 Credits Dr AC Tappenden/Dr M Fazeli/Mrs KM Thomas CORE	
EGT201 Engineering Tutorials: Year 2 0 Credits Prof JC Arnold CORE	
Total 120 Credits	

Year 2 (FHEQ Level 5) 2025/26
Biomedical Engineering
MEng Biomedical Engineering with a Year in Industry[HB1W]

Semester 1 Modules	Semester 2 Modules
EG-232 Multivariable Calculus for Medical Engineers 10 Credits Dr AM Higgins CORE	EG-215 Process Modelling 10 Credits Prof R Van Loon CORE
EG-236 Design for Medical Engineering 10 Credits Prof P Rees/Dr F Zhao CORE	EG-235 Dynamics 1 (Med & Civil) 10 Credits Dr H Madinei CORE
EGA219 Cell Biology and cell mechanics for engineers 10 Credits Miss CM Barnes CORE	EG-238 Experimental Studies for Medical Engineers 10 Credits Miss CM Barnes/Dr S Azizishirvanshahi/Dr DR Daniels/Prof R Van Loon/... CORE
EGA226 Physiological systems 10 Credits Prof HD Summers CORE	EG-256 Fluid Mechanics 1 10 Credits Dr F Del Giudice CORE
PM-230 Selected Medical Diagnostic Techniques 10 Credits Prof KM Hawkins/Prof OJ Guy/Mr AS Pillai/Dr BR Thomas CORE	EG-262 Stress Analysis 1 10 Credits Dr L Prakash CORE
EG-2004 AI, Machine Learning and Data Analysis 20 Credits Prof L Li/Miss CM Barnes/Dr A Das/Dr KM Ennser/Prof C Giannetti/Mr AJ Morgan/... CORE	
EG-233 Placement Preparation: Engineering Industrial Year 0 Credits Dr SA Rolland/Dr V Samaras CORE	
EG-277 Research Project Preparation 0 Credits Dr AC Tappenden/Dr M Fazeli/Mrs KM Thomas CORE	
EGT201 Engineering Tutorials: Year 2 0 Credits Prof JC Arnold CORE	
Total 120 Credits	