Swansea University
Prifysgol Abertawe

FACULTY OF SCIENCE AND ENGINEERING

POSTGRADUATE STUDENT HANDBOOK

MSc BIOMEDICAL ENGINEERING (FHEQ LEVEL 7)

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 Raoul van Loon

MSc (FHEQ Level 7) 2025/26
Biomedical Engineering MSc
MSc Biomedical Engineering

Compulsory Modules

Semester 1 Modules	Semester 2 Modules
EG-M321 **Image-based Biomaterial Fabrication & Biomechanical Testing** **20 Credits** **Prof H Arora/Prof R Van Loon** **CORE**	**EG-M160** **Advanced Microfluidics** **10 Credits** **Dr F Del Giudice** **CORE**
EGNM05 **Bio-nanotechnology** **10 Credits** **Dr CJ Wright** **CORE**	**EG-M190** **Socio-Technical Engineering** **10 Credits** **Dr SA Rolland/Dr A Larimi** **CORE**
EGNM07 **Principles of Nanomedicine** **10 Credits** **Unknown** **CORE**	**EG-M332** **Medical Imaging & Informatics** **20 Credits** **Prof P Rees** **CORE**
EGTM79 **Sustainability and Environmental Assessment** **10 Credits** **Prof GTM Bunting/Mr MH Green**	**EG-M83** **Simulation Based Product Design** **10 Credits** **Dr AJ Williams/Dr B Morgan** **CORE**
Dissertation	
EG-D14 **MSc Dissertation - Biomedical Engineering** **60 Credits** **Prof R Van Loon** **CORE**	
Total 180 Credits	

Optional Modules

Choose exactly 10 credits

Students who have studied EGA336 in Swansea as part of their undergraduate degree will have to elect EG-M97

EG-M326	Biomedical Flows in Physiology and Medical Devices	Prof R Van Loon	TB1	10 (CORE)
EG-M97	Advanced Solid Mechanics	Dr C Wang	TB1	10 (CORE)

And

Choose exactly 10 credits

Students who have previously studied EGA308 cannot study EG-M328;

Students who have previously studied EG-3055 can't take EG-M327

Students can only take EG-M403 if they have previously done EG-M328

EG-M327	Tissue Engineering	Dr CJ Wright	TB1	10 (CORE)
EG-M328	Implant and prosthetic Technology	Dr CJ Wright/Dr F Zhao	TB2	10 (CORE)
EG-M343	Microstructure and Characterisation	Dr L Prakash	TB1	10 (CORE)
EGM403	Implant Engineering 2	Dr CJ Wright/Dr F Zhao	TB2	10 (CORE)