FACULTY OF SCIENCE AND ENGINEERING

UNDERGRADUATE STUDENT HANDBOOK

YEAR 2 (FHEQ LEVEL 5)

MATHEMATICS
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

Mathematics Programme Director	Year 2 Coordinator
Dr Kristian Evans	Professor Chenggui Yuan

Year 2 (FHEQ Level 5) 2025/26
Mathematics
BSc Mathematics[G100,G101]
BSc Mathematics with a Year Abroad[G104]
MMath Mathematics[G103]
MMath Mathematics with a Year Abroad[G105]

Compulsory Modules

Semester 1 Modules	Semester 2 Modules
MA-241 **Differential Equations** **15 Credits** **Dr V Giunta**	
MA-252 **Probability Theory** **15 Credits** **Prof C Yuan/Prof E Lytvynov**	
Total 120 Credits	

Optional Modules
Choose exactly 15 credits
MAWXXX modules are for students who wish to study part of their course through the medium of Welsh.

MA-201	Multi-variable analysis	Dr JB Macmillan	TB1	15 (CORE)
MAW201	Dadansoddi Aml-Newidyn	Prof V Moroz	TB1	15 (CORE)

And
Choose exactly 15 credits

MA-202	Metric spaces and measure theory	Dr JB Macmillan	TB2	15 (CORE)
MAW202	Gofodau Metrig a Theori Mesur	Prof V Moroz	TB2	15 (CORE)

And
Choose exactly 15 credits

MA-211	Vector Spaces	Prof G Garkusha	TB1	15 (CORE)
MAW211	Gofodau Fector	Prof G Garkusha	TB1	15 (CORE)

And
Choose exactly 15 credits

MA-212	Groups and Rings	Dr EJ Beggs	TB2	15 (CORE)
MAW212	Grwpiau a Chylchoedd	Dr EJ Beggs	TB2	15 (CORE)

And
Choose exactly 30 credits
Subject to pre-requisite requirements.

MA-203	Professional Development and Career Planning	Dr SA Rolland/Dr SA Rolland	TB1+2	0
MA-243	Mathematical Modelling: Theory and Practice	Prof GG Powathil	TB2	15
MA-274	Credibility, Liability and Ruin	Dr Z Sobol	TB2	15
MA-282	Game Theory and Optimization	Dr EJ Beggs	TB2	15
MA-292	Statistical Data Analysis	Dr K Evans	TB2	15

Compulsory Modules

Semester 1 Modules	Semester 2 Modules
MA-203 **Professional Development and Career Planning** **0 Credits** **Dr SA Rolland/Dr SA Rolland** **CORE**	
MA-241 **Differential Equations** **15 Credits** **Dr V Giunta**	
MA-203 **Professional Development and Career Planning** **0 Credits** **Dr SA Rolland/Dr SA Rolland** **CORE**	
Total 120 Credits	

Optional Modules
Choose exactly 15 credits
MAWXXX modules are for students who wish to study part of their course through the medium of Welsh.

MA-201	Multi-variable analysis	Dr JB Macmillan	TB1	15 (CORE)
MAW201	Dadansoddi Aml-Newidyn	Prof V Moroz	TB1	15 (CORE)

And
Choose exactly 15 credits

MA-202	Metric spaces and measure theory	Dr JB Macmillan	TB2	15 (CORE)
MAW202	Gofodau Metrig a Theori Mesur	Prof V Moroz	TB2	15 (CORE)

And
Choose exactly 15 credits

MA-211	Vector Spaces	Prof G Garkusha	TB1	15 (CORE)
MAW211	Gofodau Fector	Prof G Garkusha	TB1	15 (CORE)

And
Choose exactly 15 credits

MA-212	Groups and Rings	Dr EJ Beggs	TB2	15 (CORE)
MAW212	Grwpiau a Chylchoedd	Dr EJ Beggs	TB2	15 (CORE)

And
Choose exactly 45 credits
Subject to pre-requisite requirements.

MA-233	Unknown	<Unknown>	TB1	0
MA-243	Mathematical Modelling: Theory and Practice	Prof GG Powathil	TB2	15
MA-252	Probability Theory	Prof C Yuan/Prof E Lytvynov	TB1	15
MA-274	Credibility, Liability and Ruin	Dr Z Sobol	TB2	15
MA-282	Game Theory and Optimization	Dr EJ Beggs	TB2	15
MA-292	Statistical Data Analysis	Dr K Evans	TB2	15