Swansea University
Prifysgol Abertawe

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
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
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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/

Year 2 (FHEQ Level 5) 2024/25
Mathematics
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	Prof V Moroz	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	Prof V Moroz	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	Mrs S Gill/Mrs S Gill	TB1	0
MA-233	Projective Geometry: theory and applications	Dr NY Villamizar	TB1	15
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

Year 2 (FHEQ Level 5) 2024/25
Mathematics
BSc Mathematics[G100,G101]
BSc Mathematics with a Year Abroad[G104]

Compulsory Modules

Semester 1 Modules	Semester 2 Modules
MA-241 **Differential Equations** **15 Credits** **Dr V Giunta**	
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	Prof V Moroz	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	Prof V Moroz	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-203	Professional Development and Career Planning	Mrs S Gill/Mrs S Gill	TB1	0
MA-233	Projective Geometry: theory and applications	Dr NY Villamizar	TB1	15
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

Year 2 (FHEQ Level 5) 2024/25
Mathematics
BSc Mathematics with a Year in Industry[G327]

Compulsory Modules

Semester 1 Modules	Semester 2 Modules
MA-203 **Professional Development and Career Planning** **0 Credits** **Mrs S Gill/Mrs S Gill** **CORE**	
MA-241 **Differential Equations** **15 Credits** **Dr V Giunta**	
MA-203 **Professional Development and Career Planning** **0 Credits** **Mrs S Gill/Mrs S Gill** **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	Prof V Moroz	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	Prof V Moroz	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	Projective Geometry: theory and applications	Dr NY Villamizar	TB1	15
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