



Swansea University
Prifysgol Abertawe

FACULTY OF SCIENCE AND ENGINEERING

STUDENT HANDBOOK

MSc (FHEQ LEVEL 7)

**MSC CIVIL ENGINEERING JANUARY
DEGREE PROGRAMME**

**SUBJECT SPECIFIC
(PART TWO OF TWO)
MODULE AND COURSE STRUCTURE
2024-25**

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

06 January 2025 – 11 April 2025

06 May 2025 – 06 June 2025

22 September 2025 – 12 December 2025

SEMESTER 1

06 January 2025 – 11 April 2025

SUMMER

06 May 2025 – 19 September 2025

SEMESTER 2

22 September 2025 – 12 December 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.

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 |
| Head of Operations | Mrs Ruth Bunting |
| Associate Dean – Education | Dr Laura Roberts |
| School of Aerospace, Civil, Electrical and Mechanical Engineering | |
| Head of School | Professor Antonio Gil |
| School Education Lead | Professor Cris Arnold |
| Head of Civil Engineering | Professor Eduardo De Souza Neto |
| Civil Engineering Programme Director | Dr Clare Wood |
| Year Coordinator | Professor Yuntian Feng |

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/>

MSc (FHEQ Level 7) 2024/25
Civil Engineering MSc - January start
MSc Civil Engineering

Compulsory Modules

| September- December Modules | January- June Modules |
|---|---|
| EG-M24 Advanced Structural Design 10 Credits Miss X Yin CORE | EG-M190 Socio-Technical Engineering 10 Credits Dr SA Rolland/Prof JC Arnold CORE |
| EG-M25 Advanced Structural Analysis 10 Credits Prof EA De Souza Neto CORE | EG-M35 Flood Risk Management 10 Credits Dr Y Xuan/Prof HU Karunarathna CORE |
| EGTM79 Sustainability and Environmental Assessment 10 Credits Prof GTM Bunting/Mr MH Green CORE | EG-M47 Business Leadership for Engineers 10 Credits Dr JE Norambuena-Contreras CORE |
| | EG-M52 Strategic Engineering Management 10 Credits Dr CAC Wood/Mr LI Hamilton CORE |
| | EGIM08 Plasticity in Structural and Geotechnical Engineering 10 Credits Prof D Peric CORE |
| Dissertation | |
| EG-D04 MSc Dissertation - Civil and Computational Engineering 60 Credits Prof Y Feng CORE | |
| Total 180 Credits | |

Optional Modules

Choose exactly 10 credits

| | | | | |
|------------------------|--|--------------------------|-----|--------------|
| EG-M38 | Design and Analysis for Temporary Works | Prof C Li/Mr TE Mitchell | TB2 | 10 (CORE) |
| EGIM07 | Dynamics and Earthquake Analysis of Structures | Prof Y Feng | TB2 | 10 (CORE) |

And

Choose exactly 10 credits

| | | | | |
|------------------------|-----------------------------|-----------------|-----|--------------|
| EGEM00 | Transportation Engineering | Dr Y Hou | TB1 | 10 (CORE) |
| EGEM07 | Fluid-Structure Interaction | Prof WG Dettmer | TB1 | 10 (CORE) |

And

Choose exactly 10 credits

| | | | | |
|------------------------|---------------------------------------|-----------------------|-----|--------------|
| EG-M23 | Finite Element Computational Analysis | Prof R Sevilla | TB2 | 10 (CORE) |
| EG-M92 | Finite Elements for Civil Engineers | Prof EA De Souza Neto | TB2 | 10 (CORE) |

And

Choose exactly 10 credits

Swansea University Civil BEng Graduates, and any other students with a high level of past taught experience of Coastal Engineering should select EG-M87. Students without past taught experience of Coastal Engineering should select EG-M107

| | | | | |
|--------------------------------|-----------------------------------|------------------------------------|-----|--------------|
| <u>EG-M107</u> | Coastal Processes and Engineering | Prof HU Karunarathna/Prof DE Reeve | TB2 | 10 (CORE) |
| <u>EG-M87</u> | Coastal Engineering | Prof DE Reeve | TB2 | 10 (CORE) |