



**Swansea University**  
**Prifysgol Abertawe**

**FACULTY OF SCIENCE AND  
ENGINEERING**

**POSTGRADUATE TAUGHT STUDENT  
HANDBOOK**

**MSc AEROSPACE ENGINEERING  
(FHEQ LEVEL 7)**

**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**



<b>Faculty of Science and Engineering</b>	
Pro-Vice-Chancellor and Executive Dean	Professor David Smith
Head of Operations	Mrs Ruth Bunting
Associate Dean – Education	Dr Laura Roberts
<b>School of Aerospace, Civil, Electrical and Mechanical Engineering</b>	
Head of School	Professor Antonio Gil
School Education Lead	Professor Cris Arnold
Head of Aerospace Engineering	Professor Ben Evans
Aerospace Engineering Programme Director (Postgraduate Taught)	Dr Yuying Xia – <a href="mailto:yuying.xia@swansea.ac.uk">yuying.xia@swansea.ac.uk</a>
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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](mailto: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](#)
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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

## Aerospace Engineering

### MSc Aerospace Engineering

#### Compulsory Modules

Semester 1 Modules	Semester 2 Modules
<a href="#">EG-M329</a> Advanced Propulsion 10 Credits Dr Z Ren CORE	<a href="#">EG-M190</a> Socio-Technical Engineering 10 Credits Dr SA Rolland/Prof JC Arnold CORE
<a href="#">EG-M69</a> Advanced Airframe Structures 10 Credits Prof H Haddad Khodaparast CORE	<a href="#">EG-M47</a> Business Leadership for Engineers 10 Credits Dr JE Norambuena-Contreras CORE
<a href="#">EG-M81</a> Flight Dynamics and Control 10 Credits Dr H Madinei CORE	<a href="#">EG-M90</a> Advanced Aerodynamics 10 Credits Prof BJ Evans/Prof K Morgan CORE
<a href="#">EGSM00</a> Structural Integrity of Aerospace Metals 10 Credits Prof C Pleydell-Pearce CORE	
<a href="#">EG-M62</a> Group project (Aerospace) 30 Credits Dr TN Croft/Dr Z Jelic/Dr X Zou CORE	
Dissertation	
<a href="#">EG-D02</a> MSc Dissertation - Aerospace Engineering 60 Credits Dr Y Xia CORE	
Total 180 Credits	

#### Optional Modules

Choose exactly 10 credits

If choosing between EG-M23 and EGIM09, students who have taken EG-323 previously must choose EG-M23. Students without past FEA background knowledge are advised to take EGIM09.

<a href="#">EG-M23</a>	Finite Element Computational Analysis	Prof R Sevilla	TB1	10
<a href="#">EG-M83</a>	Simulation Based Product Design	Dr AJ Williams/Dr AC Tappenden	TB2	10
<a href="#">EGEM07</a>	Fluid-Structure Interaction	Prof WG Dettmer	TB2	10
<a href="#">EGIM09</a>	Finite Element Method	Dr W Harrison	TB1	10

#### And

Choose exactly 10 credits

If EGA301 Composite Materials was studied in year 3, EG-M73 cannot be selected.

<a href="#">EG-M330</a>	Next Generation Sustainable Aircraft Technologies	Prof BJ Evans	TB2	10
<a href="#">EG-M73</a>	Composite Materials	Dr FA Korkees	TB2	10