



**Swansea University  
Prifysgol Abertawe**

**FACULTY OF SCIENCE AND  
ENGINEERING**

**UNDERGRADUATE STUDENT  
HANDBOOK**

**YEAR 3 (FHEQ LEVEL 6)**

**BSc AEROSPACE ENGINEERING  
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**



<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	Dr Nidhal Jamia - <a href="mailto:nidhal.jamia@swansea.ac.uk">nidhal.jamia@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/>

## **Further Guidance for Year 3 students enrolled on a non-accredited BSc programme**

Please be aware that the non-accredited BSc programme will follow standard University regulations, and it is important to be aware of the following:

### **CORE modules**

There are no CORE modules in the Year 3 BSc programmes.

### **B-version of modules**

Where a module has an additional assessment rule (for example, students must pass the exam with a mark of 40%+ in order to pass the module), B-versions of these modules have been created for the BSc programmes. The module content and assessment are the same, but the additional assessment rule does not feature.

### **Compensation at Final Year**

As standard final year regulations apply for the BSc, these currently permit compensation in up to 40-credits down to 0 in non-core modules at Final Year.

### **Resits at Final Year**

There is no opportunity for resits in final year for those on the BSc programme, unlike BEng/MEng, but approved deferrals will still be possible as normal.

### **Calculation of the BSc degree classification**

Calculation of the BSc will follow standard university regulations with the following system applied - The overall average will be worked out with 3\*weighting for the best 80Cr from Year 3, 2\* weighting for remaining 40Cr from Year 3 and best 40Cr from Year 2, 1\*weighting for remaining Year 2 modules. A formula is then applied to calculate the degree classification average.

**As previously highlighted the BSc programmes are not accredited.**



**Year 3 (FHEQ Level 6) 2024/25**  
**BSc Aerospace Engineering**  
 BSc Aerospace Engineering

**Compulsory Modules**

Semester 1 Modules	Semester 2 Modules
<a href="#">EG-3081</a> Rotorcraft Theory 10 Credits Dr Y Yuan	<a href="#">EG-397</a> Propulsion 10 Credits Prof MT Whittaker
<a href="#">EG-335</a> Gas Dynamics 10 Credits Dr I Sazonov	
<a href="#">EG-360</a> Dynamics 2 10 Credits Dr Y Yuan	
<a href="#">EG-3080B</a> Engineering Management B (Aero, EEE, Mech) 10 Credits Prof JC Arnold/Dr HKJ Jahanger/Dr EH Jewell/Mr JK Mcfadzean/Dr B Morgan	
<a href="#">EG-353</a> Individual Engineering Project 30 Credits Dr M Fazeli/Prof PJ Holliman/Dr AC Tappenden	
<a href="#">EGA302A</a> Aerospace Engineering Design 3 20 Credits Mr JK Mcfadzean/Prof BJ Evans/Dr AD Shaw/Dr NV Taylor	
<b>Total 120 Credits</b>	

**Optional Modules**

Choose exactly 20 credits

Structural/Computational Stream

These options MUST be chosen by those on the Structural/Computational Stream.

<a href="#">EG-323</a>	Finite Element Method	Dr W Harrison	TB1	10
<a href="#">EG-396</a>	Computational Aerodynamics	Dr TN Croft	TB2	10

**Or**

Choose exactly 20 credits

Materials/Propulsion Stream.

These options MUST be chosen by those on the Materials/Propulsion Stream.

<a href="#">EG-381</a>	Fracture and Fatigue	Prof RE Johnston	TB1	10
<a href="#">EGA301B</a>	Composite Materials B	Dr FA Korkees	TB2	10

**Or**

Choose exactly 20 credits

Space Stream. These options MUST be chosen by those on the Space Stream.

<a href="#">EGA321</a>	Satellite Systems	Dr I Sazonov	TB1	10
<a href="#">EGA341</a>	Space Propulsion and Power Systems	Dr Z Jelic	TB2	10