Swansea University
Prifysgol Abertawe

FACULTY OF SCIENCE AND ENGINEERING

UNDERGRADUATE STUDENT HANDBOOK

YEAR 4 (FHEQ LEVEL 7)

AEROSPACE ENGINEERING

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

Aerospace Engineering Programme Director	Aerospace Engineering Year Coordinator
Dr Nidhal Jamia	Professor Hamed Haddad Khodaparast

Year 4 (FHEQ Level 7) 2025/26
Aerospace Engineering
MEng Aerospace Engineering[H403]
MEng Aerospace Engineering with a Year Abroad[H406]
MEng Aerospace Engineering with a Year in Industry[H404]

Compulsory Modules

Semester 1 Modules	Semester 2 Modules
EGTM79 **Sustainability and Environmental Assessment** **10 Credits** **Prof GTM Bunting/Mr MH Green** **CORE**	**EG-M190** **Socio-Technical Engineering** **10 Credits** **Dr SA Rolland/Dr A Larimi** **CORE**
	EG-M47 **Business Leadership for Engineers** **10 Credits** **Dr JE Norambuena-Contreras/Dr Z Tehrani** **CORE**
EG-M62 **Group project (Aerospace)** **30 Credits** **Dr TN Croft/Dr Z Jelic/Dr X Zou** **CORE**	
Total 120 Credits	

Optional Modules

Choose exactly 60 credits
Aeronautical Stream -

Students MUST take these optional modules for the Aeronautical Stream

EG-M329	Advanced Propulsion	Dr Z Ren	TB1	10 (CORE)
EG-M330	Next Generation Sustainable Aircraft Technologies	Dr Y Xia	TB2	10 (CORE)
EG-M69	Advanced Airframe Structures	Prof H Haddad Khodaparast	TB1	10 (CORE)
EG-M81	Flight Dynamics and Control	Dr H Madinei	TB1	10 (CORE)
EG-M90	Advanced Aerodynamics	Prof BJ Evans	TB2	10 (CORE)
EGTM60	Aerospace Materials Engineering	Prof C Pleydell-Pearce	TB2	10 (CORE)

Or

Choose exactly 50 credits
Students on the Astronautical Stream MUST select these optional modules

AT-M76	Radio and Optical Wireless Communications	Prof L Li/Prof A Mehta	TB2	10 (CORE)
EG-M334	Advanced Space Systems	Dr MS Bonney	TB2	10 (CORE)
EG-M335	Launch Vehicles System Design	Dr Z Jelic/Dr NV Taylor	TB1	10 (CORE)
EG-M337	Power Sources for Operation of Spacecraft Systems	Dr DA Lamb	TB1	10 (CORE)
EG-M339	Spacecraft Structure Design	Dr Y Xia	TB1	10 (CORE)

And

Choose exactly 10 credits

Astronautical Stream - options

Students on the Astronautical Stream MUST select between these two optional modules. The default selection between the two optional modules should be EG-M73 Composite Materials, unless you studied EGA301 Composite Materials at Undergraduate Level in Swansea University. If you studied EGA301 Composite Materials at Undergraduate Level in Swansea University please select EGTM60.

EG-M73	Composite Materials	Dr FA Korkees	TB2	10 (CORE)
EGTM60	Aerospace Materials Engineering	Prof C Pleydell-Pearce	TB2	10 (CORE)

Year 4 (FHEQ Level 7) 2025/26
Aerospace Engineering
MEng Aerospace Engineering with a Year in Industry

Total 120 Credits

Optional Modules
Choose exactly 60 credits
Aeronautical Stream -

Students MUST take these optional modules for the Aeronautical Stream

EG-M329	Advanced Propulsion	Dr Z Ren	TB1	10 (CORE)
EG-M330	Next Generation Sustainable Aircraft Technologies	Dr Y Xia	TB2	10 (CORE)
EG-M69	Advanced Airframe Structures	Prof H Haddad Khodaparast	TB1	10 (CORE)
EG-M81	Flight Dynamics and Control	Dr H Madinei	TB1	10 (CORE)
EG-M90	Advanced Aerodynamics	Prof BJ Evans	TB2	10 (CORE)
EGTM60	Aerospace Materials Engineering	Prof C Pleydell-Pearce	TB2	10 (CORE)

Or
Choose exactly 50 credits
Students on the Astronautical Stream MUST select these optional modules

AT-M76	Radio and Optical Wireless Communications	Prof L Li/Prof A Mehta	TB2	10 (CORE)
EG-M334	Advanced Space Systems	Dr MS Bonney	TB2	10 (CORE)
EG-M335	Launch Vehicles System Design	Dr Z Jelic/Dr NV Taylor	TB1	10 (CORE)
EG-M337	Power Sources for Operation of Spacecraft Systems	Dr DA Lamb	TB1	10 (CORE)
EG-M339	Spacecraft Structure Design	Dr Y Xia	TB1	10 (CORE)

And
Choose exactly 10 credits
Astronautical Stream - options

Students on the Astronautical Stream MUST select between these two optional modules. The default selection between the two optional modules should be EG-M73 Composite Materials, unless you studied EGA301 Composite Materials at Undergraduate Level in Swansea University. If you studied EGA301 Composite Materials at Undergraduate Level in Swansea University please select EGTM60.

EG-M73	Composite Materials	Dr FA Korkees	TB2	10 (CORE)
EGTM60	Aerospace Materials Engineering	Prof C Pleydell-Pearce	TB2	10 (CORE)