Swansea University
Prifysgol Abertawe

FACULTY OF SCIENCE AND ENGINEERING

UNDERGRADUATE STUDENT HANDBOOK

YEAR 3 (FHEQ LEVEL 6)

BSC THEORETICAL PHYSICS

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

Physics Programme Director	Physics Year 3 Coordinator
Dr Timothy Burns	Dr Sophie Shermer

Year 3 (FHEQ Level 6) 2025/26
Theoretical Physics
BSc Theoretical Physics[F341]
BSc Theoretical Physics with a Year in Industry[F636]

Compulsory Modules

Semester 1 Modules	Semester 2 Modules
PH-326 **Nuclear and Particle Physics** **20 Credits** **Dr T Burns**	**PH-318** **Theoretical Physics Project** **20 Credits** **Dr SM Shermer** **CORE**
PH-327 **Condensed Matter Physics** **20 Credits** **Dr JE Bateman**	**PH-346** **Advanced Theoretical Physics** **20 Credits** **Prof C Nunez**
PH-334 **Gravity and Cosmology** **20 Credits** **Prof G Tasinato**	
Total 120 Credits	

Optional Modules

Choose exactly 20 credits

If you completed PH-217 in your second year, you are not permitted to take BGP300 in Year 3.

BGP300	Science Communication with Placement	Dr WE Harris/Dr RH Meara/Dr SG Roberts/..	TB2	20
PH-337	Atomic Physics	Prof N Madsen	TB2	20

Year 3 (FHEQ Level 6) 2025/26
Theoretical Physics
MPhys Theoretical Physics[F340]
MPhys Theoretical Physics with a Year in Industry[F857]

Compulsory Modules

Semester 1 Modules	Semester 2 Modules
PH-326 **Nuclear and Particle Physics** **20 Credits** **Dr T Burns**	**PH-318** **Theoretical Physics Project** **20 Credits** **Dr SM Shermer**
PH-327 **Condensed Matter Physics** **20 Credits** **Dr JE Bateman**	**PH-346** **Advanced Theoretical Physics** **20 Credits** **Prof C Nunez**
PH-334 **Gravity and Cosmology** **20 Credits** **Prof G Tasinato**	
Total 120 Credits	

Optional Modules

Choose exactly 20 credits

BGP300	Science Communication with Placement	Dr WE Harris/Dr RH Meara/Dr SG Roberts/..	TB2	20
PH-337	Atomic Physics	Prof N Madsen	TB2	20