

## FACULTY OF SCIENCE AND ENGINEERING

### UNDERGRADUATE STUDENT HANDBOOK

YEAR 2 (FHEQ LEVEL 5)

# COMPUTER SCIENCE AND ARTIFICAL INTELLIGENCE

**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



Faculty of Science and Engineering			
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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 <a href="here">here</a> and further information <a href="here">here</a>. 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 (<u>studentsupport-scienceengineering@swansea.ac.uk</u>) 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, <u>Bay Campus</u>
- Reception on the first-floor landing of the Wallace Building, <u>Singleton Park</u> <u>Campus</u>

Standard Reception opening hours are Monday to Friday from 9am to 5pm however, this may vary outside of term time.

The current <u>FSE Student webpages</u> 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 - <a href="https://myuni.swansea.ac.uk/academic-life/academic-regulations/taught-guidance/essential-info-taught-students/your-programme-explained/">https://myuni.swansea.ac.uk/academic-life/academic-regulations/taught-guidance/essential-info-taught-students/your-programme-explained/</a>

#### Year 2 (FHEQ Level 5) 2024/25

### Computer Science and Artificial Intelligence BSc Computer Science and Artificial Intelligence with a Year in Industry[GG5I]

#### **Compulsory Modules**

Semester 1 Modules	Semester 2 Modules		
CS-230 Software Engineering 15 Credits Dr LP O'Reilly	CS-265 Artificial Intelligence 15 Credits Dr AZ Wyner/Dr B Muller CORE		
CS-250 Database Systems 15 Credits Dr KL Tam			
CS-260 Introduction to Modelling and Simulation 15 Credits Dr N Picco CORE			
CS-270 Algorithms 15 Credits Dr O Kullmann			
CS-201 Placement Preparation: Science Industrial Year 0 Credits Dr SA Rolland Total 120 Credits			

#### **Optional Modules**

Choose a maximum of 45 credits

The maximum credit limit applies to this section and to the CS-239/CS-279 sub-section.

<u>CS-200</u>	Introduction to Human-Computer Interaction	Prof JS Pearson/Prof SNW Robinson	TB2	15
<u>CS-210</u>	Concurrency	Dr F Caraffini	TB2	15
CS-253	Web Service Development	Dr NA Harman	TB2	15
CS-256	Visual Computing	Prof MW Jones	TB2	15
CS-275	Automata and Formal Language Theory	Dr AM Pauly/Dr M Valenti	TB2	15

#### And

Choose a maximum of 15 credits

You may choose to make no selection in this section.

CS-2	Software Security E	Engineering Dr G Sabaliauskaite/Dr H Nguy	en TB2	15
CS-2	Intelligent Robotics	Dr D Cafolla	TB2	15

#### Year 2 (FHEQ Level 5) 2024/25

#### Computer Science and Artificial Intelligence BSc Computer Science and Artificial Intelligence[GG53]

BSc Computer Science and Artificial Intelligence[GG53]
BSc Computer Science and Artificial Intelligence with a Year Abroad[GG5A]

#### **Compulsory Modules**

Semester 1 Modules	Semester 2 Modules
CS-230 Software Engineering 15 Credits Dr LP O'Reilly	CS-265 Artificial Intelligence 15 Credits Dr AZ Wyner/Dr B Muller CORE
CS-250 Database Systems 15 Credits Dr KL Tam	
CS-260 Introduction to Modelling and Simulation 15 Credits Dr N Picco CORE	
CS-270 Algorithms 15 Credits Dr O Kullmann	0 Credits

#### **Optional Modules**

Choose a maximum of 45 credits

The maximum credit limit applies to this section and to the CS-239/CS-279 sub-section.

CS-200	Introduction to Human-Computer Interaction	Prof JS Pearson/Prof SNW Robinson	TB2	15
<u>CS-203</u>	Professional Development and Career Planning	Mrs S Gill	TB1	0
CS-210	Concurrency	Dr F Caraffini	TB2	15
CS-253	Web Service Development	Dr NA Harman	TB2	15
CS-256	Visual Computing	Prof MW Jones	TB2	15
CS-275	Automata and Formal Language Theory	Dr AM Pauly/Dr M Valenti	TB2	15

#### And

Choose a maximum of 15 credits

You may choose to make no selection in this section.

<b>CS-239</b>	Software Security Engineering	Dr G Sabaliauskaite/Dr H Nguyen	TB2	15
<b>CS-279</b>	Intelligent Robotics	Dr D Cafolla	TB2	15