

# FACULTY OF SCIENCE AND ENGINEERING

## UNDERGRADUATE STUDENT HANDBOOK

YEAR 3 (FHEQ LEVEL 6)

### **COMPUTER SCIENCE**

**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			
Pro-Vice-Chancellor and Executive Dean	Professor David Smith		
Head of Operations	Mrs Ruth Bunting		
Associate Dean – Education	Dr Laura Roberts		
School of Mathemat	ics and Computer Science		
Head of School	Professor Elaine Crooks <u>e.c.m.crooks@swansea.ac.uk</u>		
School Education Lead	Dr Neal Harman <u>n.a.harman@swansea.ac.uk</u>		
Head of Computer Science	Professor Jiaxiang Zhang jiaxiang.zhang@swansea.ac.uk		
Computer Science Programme Director	Undergraduate – Dr Liam O'Reilly <a href="mailto:l.p.oreilly@swansea.ac.uk">l.p.oreilly@swansea.ac.uk</a>		
Year Coordinators	Year 0 – Dr Deepak Sahoo d.r.sahoo@swansea.ac.uk Year 1 – Dr Trang Doan t.t.doan@swansea.ac.uk Year 2 – Dr Fabio Caraffini fabio.caraffini@swansea.ac.uk Year 3 – Dr Jens Blanck j.e.blanck@swansea.ac.uk Year 4 – Dr Tom Owen t.owen@swansea.ac.uk		

#### **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 <a href="http://ifindreading.swan.ac.uk/">http://ifindreading.swan.ac.uk/</a>.

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 3 (FHEQ Level 6) 2024/25 Computer Science

MSci Computer Science[G4G4]
MSci Computer Science with a Year Abroad[G4G2]
MSci Computer Science with a Year in Industry[G847]

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Computer Science Project Implementation and Dissertation 15 Credits

Dr JE Blanck

**CSP354** 

Computer Science Project Specification and Development 15 Credits

Dr JE Blanck

#### **Total 120 Credits**

#### **Optional Modules**

Choose exactly 45 credits

<b>CSC306</b>	Writing Mobile Apps	Dr T Owen	TB1	15
CSC313	High Integrity Systems	Dr AG Setzer	TB1	15
CSC345	Big Data and Machine Learning	Dr L Zhang	TB1	15
CSC348	Web Application Development	Dr SP Walton	TB1	15
CSC368	,	Dr B Chaparro Rico	TB1	15
CSC390	Teaching Computing via a School Placement	Ms CL Hopkins	TB1	15

#### And

Choose exactly 45 credits

<u>CSC309</u>	Invention and Innovation in Computing	Prof JV Tucker	TB1+2	15
CSC318	Cryptography and IT-Security	Dr E Neumann/Dr M Tiwari	TB2	15
CSC349	User Experience	Dr MI Ahmad	TB2	15
<u>CSC357</u>	Brain-Inspired Artificial Intelligence	Dr W Macinnes/Prof J Zhang	TB2	15
CSC364	Software Testing	Dr E Neumann	TB2	15
<u>CSC371</u>	Advanced Object-Oriented Programming	Dr T Reitmaier	TB2	15
CSC375	Logic for Computer Science	Dr U Berger	TB2	15
<u>CSC384</u>	Introduction to Video Games Programming	Dr SP Walton	TB2	15

#### Year 3 (FHEQ Level 6) 2024/25 Computer Science

BSc Computer Science[G400,G401]
BSc Computer Science with a Year in Industry[G40A]

**CSP344** 

Computer Science Project Implementation and Dissertation 15 Credits

Dr JE Blanck

**CSP354** 

Computer Science Project Specification and Development 15 Credits

Dr JE Blanck

#### **Total 120 Credits**

#### **Optional Modules**

Choose exactly 45 credits

If you are planning to study MSc Cyber Security but decide to enroll onto CSC318 and CSC348 at Year 3 then you will not be eligible to graduate with a certified degree in MSc Cyber Security as these modules need to be studied as part of the degree scheme. MSc Cyber Security is a certified degree in association with National Cyber Security Centre. Should you have any questions about this, please contact the MSc Coordinator.

<b>CSC306</b>	Writing Mobile Apps	Dr T Owen	TB1	15
CSC313	High Integrity Systems	Dr AG Setzer	TB1	15
CSC345	Big Data and Machine Learning	Dr L Zhang	TB1	15
CSC348	Web Application Development	Dr SP Walton	TB1	15
CSC368	Embedded Systems Design	Dr B Chaparro Rico	TB1	15
CSC390	Teaching Computing via a School Placement	Ms CL Hopkins	TB1	15

#### And

Choose exactly 45 credits

<u>CSC309</u>	Invention and Innovation in Computing	Prof JV Tucker	TB1+2	15
CSC318	Cryptography and IT-Security	Dr E Neumann/Dr M Tiwari	TB2	15
CSC349	User Experience	Dr MI Ahmad	TB2	15
<u>CSC357</u>	Brain-Inspired Artificial Intelligence	Dr W Macinnes/Prof J Zhang	TB2	15
CSC364	Software Testing	Dr E Neumann	TB2	15
<u>CSC371</u>	Advanced Object-Oriented Programming	Dr T Reitmaier	TB2	15
CSC375	Logic for Computer Science	Dr U Berger	TB2	15
<u>CSC384</u>	Introduction to Video Games Programming	Dr SP Walton	TB2	15

#### Year 3 (FHEQ Level 6) 2024/25 Computer Science

BSc Computer Science with a Year Abroad[G40C]

**CSP344** 

Computer Science Project Implementation and Dissertation
15 Credits
Dr JE Blanck

**CSP354** 

Computer Science Project Specification and Development
15 Credits
Dr JE Blanck

**Total 120 Credits** 

#### **Optional Modules**

Choose exactly 45 credits

If you are planning to study MSc Cyber Security but decide to enroll onto CSC318 and CSC348 at Year 3 then you will not be eligible to graduate with a certified degree in MSc Cyber Security as these modules need to be studied as part of the degree scheme. MSc Cyber Security is a certified degree in association with National Cyber Security Centre. Should you have any questions about this, please contact the MSc Coordinator.

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CSC345	Big Data and Machine Learning	Dr L Zhang	TB1	15
CSC348	Web Application Development	Dr SP Walton	TB1	15
CSC368	Embedded Systems Design	Dr B Chaparro Rico	TB1	15
CSC390	Teaching Computing via a School Placement	Ms CL Hopkins	TB1	15

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