### Reasons to study at Swansea University

<table>
<thead>
<tr>
<th>Established in 1920, ranked in the UK’s top 50 universities (Times’ Good University Guide 2014)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safe and friendly multicultural city with lower living costs than most of the UK</td>
</tr>
<tr>
<td>Gateway to the Gower Peninsula, Britain’s first area of Outstanding Natural Beauty with award winning Rhossili Beach voted Best Beach in Britain, 3rd in Europe and 10th in the world (TripAdvisor 2013 Travellers’ Choice Beaches Awards)</td>
</tr>
<tr>
<td>3 hours from London by direct train</td>
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<tr>
<td>University accommodation available on campus with free wireless internet access</td>
</tr>
<tr>
<td>Careers and Employability Service provide appointments with advisors, email advice, careers talks and events, information on current jobs, help getting experience and finding placements/internships</td>
</tr>
<tr>
<td>Free academic English support classes for enrolled, full-time International students</td>
</tr>
<tr>
<td>Free International Student Advisory Service for help and advice with healthcare, visas and more</td>
</tr>
<tr>
<td>Over 15,000 students / Over 2,000 International students</td>
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<tr>
<td>2014 UK University of the Year (WhatUni.com Student Choice Awards 2014)</td>
</tr>
</tbody>
</table>

### Computer Science at Swansea University

<table>
<thead>
<tr>
<th>Computer Science at Swansea ranked 21st in the UK</th>
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</thead>
<tbody>
<tr>
<td>Highest percentage of world-leading researchers in any Computer Science Department in Wales and the 12th highest in the UK</td>
</tr>
<tr>
<td>High profile researchers include Professor Harold Thimbleby, whose book ‘Press On’ won the American Publishers’ Association best book award in computer science</td>
</tr>
<tr>
<td>97% of our graduates are in full-time employment or further study within 6 months of graduating</td>
</tr>
<tr>
<td>Excellent facilities including Fully networked laboratories supporting a range of software, including programming languages Java, C#, the NET framework, C, C++, Haskell and Prolog</td>
</tr>
<tr>
<td>Over 90% of our students are satisfied with their experience at Swansea (National Student Survey)</td>
</tr>
<tr>
<td>Strong links with multinational companies including IBM, SanDisk, Philips, Affinity Software and Sourcebits</td>
</tr>
</tbody>
</table>
### Entry Requirements

#### FOUNDATION
- IELTS 6.0 (with 5.5 in each part of the test) or equivalent

#### UNDERGRADUATE
- IELTS 6.0 (with 5.5 in each part of the test) or equivalent

<table>
<thead>
<tr>
<th>COUNTRY</th>
<th>FOUNDATION</th>
<th>UNDERGRADUATE</th>
<th>POSTGRADUATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ALL</td>
<td>IB 24</td>
<td>IB 33-32</td>
<td>Bacherel/Licenciado: CGPA 6.0 in Computer Science or related subject** from a recognised institution</td>
</tr>
<tr>
<td>BRAZIL</td>
<td>Contact: <a href="mailto:p.a.jarman@swansea.ac.uk">p.a.jarman@swansea.ac.uk</a></td>
<td>Successful completion of the first year of an undergraduate degree at a recognised University with the score of 7</td>
<td>Bachelor Honours: Second Class Lower Division / Bachelor Ordinary: Second Class Upper Division in Computer Science or related subject**</td>
</tr>
<tr>
<td>BRUNEI</td>
<td>Contact: <a href="mailto:p.a.jarman@swansea.ac.uk">p.a.jarman@swansea.ac.uk</a></td>
<td>BCC - AAB in Cambridge GCE A Levels</td>
<td>Bachelor Degree: Second Class Lower in Computer Science or related subject**</td>
</tr>
<tr>
<td>CHINA</td>
<td>Contact: <a href="mailto:p.a.jarman@swansea.ac.uk">p.a.jarman@swansea.ac.uk</a></td>
<td>First year of an Undergraduate Degree at a Chinese University with 60% - 75%</td>
<td>Bachelor: 60% or CGPA 7.0 (55% or CGPA 6.5 for top 50 institutions, as stipulated by India Today) in Computer Science or related subject**</td>
</tr>
<tr>
<td>GHANA</td>
<td>Contact: <a href="mailto:p.a.jarman@swansea.ac.uk">p.a.jarman@swansea.ac.uk</a></td>
<td>Diploma with GPA 2.5 - 3.5</td>
<td>Bachelor Degree: Second Class Lower in Computer Science or related subject**</td>
</tr>
<tr>
<td>HONG KONG</td>
<td>Contact: <a href="mailto:p.a.jarman@swansea.ac.uk">p.a.jarman@swansea.ac.uk</a></td>
<td>Hong Kong Diploma of Secondary Education (HKDSE) 444 - 554</td>
<td>Bachelor Honours: Second Class Lower Division/CGPA 2.5 / Bachelor Ordinary: CGPA 2.7 in Computer Science or related subject**</td>
</tr>
<tr>
<td>INDIA</td>
<td>Contact: <a href="mailto:p.a.jarman@swansea.ac.uk">p.a.jarman@swansea.ac.uk</a></td>
<td>75% in Year XII</td>
<td>Bachelor: CGPA 2.5 or Grade C+ or 65% in Computer Science or related subject**</td>
</tr>
<tr>
<td>IRAQ</td>
<td>Good grades in the Sixth Form Baccalaureat (Adadiyah) to include a science subject</td>
<td>A levels: ABB - BBB or IB: 33 - 32</td>
<td>Bachelor 70% in Computer Science or related subject**</td>
</tr>
<tr>
<td>JORDAN</td>
<td>Certificate of General Secondary Education</td>
<td>Bachelor degrees Diploma [from a Community College]</td>
<td>Bachelor: CGPA 2.5 or Grade C+ or 65% in Computer Science or related subject**</td>
</tr>
<tr>
<td>KUWAIT</td>
<td>70% grade average in Thanawiya Amma (Secondary School Leaving Certificate)</td>
<td>GPA 2.5 - 3.5 in PAEET</td>
<td>Bachelor: CGPA 2.33 or Grade C+ in Computer Science or related subject**</td>
</tr>
<tr>
<td>NIGERIA</td>
<td>Contact: <a href="mailto:p.a.jarman@swansea.ac.uk">p.a.jarman@swansea.ac.uk</a></td>
<td>National Diploma Lower Credit</td>
<td>Bachelor: Second Class Lower Division in Computer Science or related subject**</td>
</tr>
<tr>
<td>MALAYSIA</td>
<td>Contact: <a href="mailto:p.a.jarman@swansea.ac.uk">p.a.jarman@swansea.ac.uk</a></td>
<td>6 (or 60%) in STPM</td>
<td>Bachelor: Second Class Lower Division or CGPA 2.75 in Computer Science or related subject**</td>
</tr>
<tr>
<td>PAKISTAN</td>
<td>Contact: <a href="mailto:p.a.jarman@swansea.ac.uk">p.a.jarman@swansea.ac.uk</a></td>
<td>Bachelor Degree [Pass] Division II - First</td>
<td>4 year Bachelor / 3 year Bachelor Honours in Science / 2 year Master’s (following 2 or 3 year Bachelor): CGPA 2.7 or 70% / 2 year Master’s (following 4 year Bachelor): CGPA 2.3 or 60% in Computer Science</td>
</tr>
<tr>
<td>QATAR</td>
<td>AI-Thanawaya Al-Amah [General Secondary Education Certificate] - 70% or higher</td>
<td>Diploma of Technology [from a College of Technology], or successful completion of first year of an undergraduate degree at Qatari university with a minimum pass score of 60% - 70%</td>
<td>Bachelor CGPA 2.7 in Computer Science or related subject**</td>
</tr>
<tr>
<td>SAUDI ARABIA</td>
<td>Contact: <a href="mailto:p.a.jarman@swansea.ac.uk">p.a.jarman@swansea.ac.uk</a></td>
<td>An Associate Degree with a minimum GPA 2.5 - 3.5</td>
<td>Bachelor CGPA 2.4 out of 4.0 or CGPA 3.0 out of 5.0 in Computer Science or related subject**</td>
</tr>
<tr>
<td>USA</td>
<td>Contact: <a href="mailto:p.a.jarman@swansea.ac.uk">p.a.jarman@swansea.ac.uk</a></td>
<td>550 - 600 (or 1650 - 1800 overall) in SAT or 3.4 in at least 3 Group A AP tests or 23 - 26 in ACT</td>
<td>Bachelor CGPA 2.7 out of 4.0 in Computer Science or related subject**</td>
</tr>
</tbody>
</table>

**These postgraduate entry requirements are for taught masters only, for research programmes please contact p.a.jarman@swansea.ac.uk

**For the MSc Computer Science your Bachelor can be in any non-computer science subject.

### Fees and Funding

For tuition fees please visit [www.swansea.ac.uk](http://www.swansea.ac.uk). Various scholarships are available each year for International Students. For further information please contact Philip Jarman p.a.jarman@swansea.ac.uk
The following 3 year (unless otherwise stated) Undergraduate courses are currently available:

- BSc Computer Science with Foundation Year (4 years)
- BSc Computer Science
- BSc Software Engineering
- BSc Computer Science joint honours programmes
- MEng Computer Science (4 years)

Course Content
The above courses will teach you the central ideas and methods of computing. You will learn how to Program, will be introduced to the basic concepts of programming and how to solve standard programming problems. As you progress you will learn how to structure data to solve problems more effectively and easily, how to use software tools to help you program, and how to test and debug your software. The main programming language we use is Java. As well as programming, you will learn how computer systems work - including the hardware, operating systems and networks. In your final year you choose the areas that interest you. You will undertake a large project - usually this is about building a software application.

Currently the modules/classes available within our computer science undergraduate programmes include:

- Advanced Topics in Computer Science
- Algorithms
- Artificial Intelligence Applications
- Automata and Formal Language Theory
- Building Reliable Web Applications
- Computer Graphics
- Computer Graphics: Modelling and Rendering
- Computer Science Concepts
- Computer Vision and Pattern Recognition
- Concepts of Programming Languages
- Concurrency
- Data Visualisation
- Database Systems
- Declarative Programming
- Design Patterns and Generic Programming
- Embedded Systems
- Graphics Processor Programming
- High Integrity Systems
- High Performance Computing in C/C++
- Internet Computing
- Logic for Computer Science
- Mobile Interaction Design
- Modelling Computing Systems
- Programming
- Professional Issues: Computing and Society
- Professional Issues: Software Development
- Software Engineering
- Software Testing
- Writing Mobile Apps
The following postgraduate master’s (1 year) and PhD (3-4 years) programmes are currently available:

- MSc Advanced Computer Science
- MSc Advanced Computer Science Specialising in Human-Computer Interaction
- MSc Advanced Computer Science Specialising in Safe and Secure Systems
- MSc Advanced Computer Science Specialising in Software Technology
- MSc Advanced Computer Science Specialising in Visual Computing
- MSc Computer Science
- MSc High Performance and Scientific Computing
- MRes Computing and Future Interaction Technologies
- MRes Logic and Computation
- MRes in Visual Computing
- MSc By Research in Computer Science
- PhD in Computer Science in the following areas:
  - Future Interaction Technology
  - Theoretical Computer Science
  - Visual Computing

**Course Content**

The **MSc Computer Science** is for graduates from non-computer science degree programmes and therefore begins with developing a solid foundation in Computer Science. The **MSc Advanced Computer Science and Specialist pathways** are for graduates in Computer Science or other relevant disciplines and will develop the skills and knowledge you have gained from your first degree. A wide range of modules/classes are available, these will vary depending on which programme you choose and currently include the following:

- Artificial Intelligence Applications
- Computer System Concepts
- Computer Vision and Pattern Recognition
- Concepts of Programming Languages
- Critical Systems
- Data Visualisation
- Design Patterns and Generic Programming
- Distributed Object-Oriented Programming
- Embedded Systems
- Graphics Processor Programming
- Group Project
- High Performance Computing in C/C++
- Interaction Technologies: Hardware and Devices
- Interaction Technologies: Lab and Field Work
- Interaction Technologies: Seminars and Readings
- Interactive System Design
- Logic for Computer Science
- Mobile Interaction Design
- Modelling and Verification Techniques
- Operating Systems and Architectures
- Programming in C/C++
- Programming in Java
- Relational and Object-Oriented Database Systems
- Research Methodology
- Software Concepts and Efficiency
- Software Engineering Principles
- Software Team Project
- Software Testing
- Writing Mobile Apps
Contact Us

**College of Science**
Swansea University, Wallace Building
Singleton Park, Swansea, UK, SA2 8PP
Tel: +44 (0)1792 295142
Email: p.a.jarman@swansea.ac.uk
www.swansea.ac.uk/science/international

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- London

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