Medical Pharmacology, BSc (Hons)

[Medical Pharmacology, BSc (Hons) - Swansea University](https://www.swansea.ac.uk/undergraduate/courses/medicine/medical-pharmacology-bsc-hons/)

|  |  |
| --- | --- |
| **Duration:** 3 years full-time  **Tuition Fees:** Year 1 £21,650 (September 2024)  *Please note that tuition fees are subject to an increase of 3% each year.* [*Info here*](https://www.swansea.ac.uk/international-students/my-finances/) | **Entry Points:**  September **(In person only)** |
| **Entry Requirements:** ([Check Equivalencies for your Country](https://www.swansea.ac.uk/media/Non-EU-entry-requirements-2018.pdf))   * A Level AAB – BBB including Chemistry with a second STEM subject (i.e. Biology, Physics, Maths, Psychology) – Foundation year available * IB 32-34 including HL6 in Chemistry with HL6 in a second STEM subject. * Minimum of grade C at GCSE (or equivalent) in Maths. | |
| **English Language Requirement:** IELTS 6.0 with no less than 5.5 in all components (or Swansea University recognised equivalents) [Check Swansea University Approved Tests and Qualifications here](https://www.swansea.ac.uk/admissions/english-language-requirements/) | |

***Suitable entry requirements as guidance – eligibility can only be confirmed once a full application has been received and reviewed.***

**Important Things To Note:**

* Ranked 12th for Pharmacy and Pharmacology (Complete University Guide 2024) and 3rd for Research (Times 2023).
* **This degree is a Pathways to Medicine programme.** Students on this program will have the opportunity to secure a guaranteed interview to the Graduate Entry Medicine program providing they have completed the relevant employability pathway (Medical Science in Practice) and meet the minimum entry requirements at the time of applying.
* We hold research talks with Swansea University staff and guest expert speakers from other universities, including industry, NHS, and research institutions.
* Student learning will encourage excellent analytical, research and communication skills, incorporating lectures, seminars, practical laboratory sessions, independent learning, and working in small groups.

**What is this programme about?**

* Learn about the science behind drugs and medicines, their effects on living systems, and their role in treating disease on our Medical Pharmacology degree course.
* Cover a diverse range of topics, including toxicology, chemistry, genetics, reproductive biology, physiology, immunology, pharmacogenomics, neuroscience, and drug development.
* Develop excellent analytical and project management skills and learn how to design experiments and plan work programmes.

**Example Topics Within the Programme:**

* Introduction to Toxicology: The Dose makes the Poison
* Introduction to Pharmacology: Dynamics and Kinetics​
* Pharmacogenomics: Genes on Drugs ​
* Advances in Toxicology: Pick Your Poison
* Advances in Pharmacology​
* Cancer Pharmacology​
* Drug Development & Regulation​
* Genetic Toxicology​
* Nanotoxicology​
* Capstone Project (Lab, Data, Education)

**Employability – Example of roles after graduation:**

Medical Pharmacology has been identified as a critical undergraduate degree required to fill the current work force and skills gaps in Medicine and Pharmaceutical Development.

* Further studies and training MSc, PhD, Graduate Entry Medicine, Physician Associate
* Academia or Industry Research and Development
* Pharmaceutical Regulations/ Policies
* Patients Law
* Pharmaceutical Industry
* Medical Writing