

# BSC (ORDINARY) PHARMACEUTICAL HEALTHCARE SCIENCES

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## Programme Learning Outcomes

Programme Learning Outcomes for BSc (Ordinary) Pharmaceutical Healthcare Sciences (NFQ Level 7, Major Award)

On successful completion of this programme, students should be able to:

- Apply the physiochemical properties of drugs to the design of small molecules and biopharmaceutical drug delivery systems and recognise the principles of pharmaceutical manufacturing encompassing good manufacturing practice (GMP), quality assurance (QA), quality control (QC) and regulatory affairs;
- Apply the principles of chemistry underpinning the design, development, manufacture, analysis and quality control of pharmaceutical compounds and excipients;
- Outline the physiological, biochemical, molecular and genetic basis of disease, drug therapy and drug delivery;
- Apply the pharmacodynamic, pharmacokinetics and pharmacological principles underlying the use of medicines in health care;
- Conduct a literature review, design a research protocol;
- Identify, formulate, analyse and solve problems relating to the action, design and manufacture of pharmaceutical compounds;
- Design and carry out experiments to test hypotheses or theories in pharmaceutics, pharmaceutical chemistry, biochemistry or pharmacology;
- Summarise some stages of the pharmaceutical manufacturing process from drug candidate selection to commercial manufacture.