

# BSC (ORDINARY) PHARMACEUTICAL HEALTHCARE SCIENCES

## Overview

NFQ Level 7 (Major award)

## Non-Pharmacy Exit Pathway for students not completing Second or Third Year Pharmacy

The BSc (Ordinary) (Pharmaceutical Healthcare Sciences), NFQ Level 7, is an *Ordinary degree pathway* for students who do not satisfy the pass standard for Year 2 or 3 of the BPharm (<https://ucc-ie-public.courseleaf.com/programmes/bpharm/>) degree in the Summer Examinations and/or the Autumn Supplemental Examinations, or who do not wish to continue with their Pharmacy degree after obtaining the pass standard for Year 1 or Year 2 of the Pharmacy degree. Such students may, following consultation with the Programme Leader, register instead for the BSc (Pharmaceutical Healthcare Sciences) ordinary degree. The BSc (Ordinary) (Pharmaceutical Healthcare Sciences) does not confer eligibility to practice as a Pharmacist.

## Year 2 BSc (Ordinary) (Pharmaceutical Healthcare Sciences)

In order to be admitted to the Second University Examination in BSc (Ordinary) (Pharmaceutical Healthcare Sciences), each student must have attended modules to the value of **60** credits.

## Year 3 BSc (Ordinary) (Pharmaceutical Healthcare Sciences)

In order to be admitted to the Third University Examination in BSc (Ordinary) (Pharmaceutical Healthcare Sciences), each student must have attended modules to the value of **60** credits.

Students who pass all modules in the Third Year Examinations in the BSc Pharmaceutical Healthcare Sciences at the first or second attempt may choose to exit the programme and be awarded the BSc (Ordinary) Pharmaceutical Healthcare Sciences (NFQ Level 7) or following consultation with the Programme Leader, progress to the Fourth Year BSc (Hons) Pharmaceutical Healthcare Sciences (<https://ucc-ie-public.courseleaf.com/programmes/bschsh/>), NFQ Level 8. The BSc (Hons) Pharmaceutical Healthcare Sciences does not confer eligibility to practise as a Pharmacist.

## Programme Requirements

For information about modules, module choice, options and credit weightings, please go to Programme Requirements (p. 1).

## Programme Requirements

### Non-Pharmacy Exit Pathway for students not completing Second Year Pharmacy

Code	Title	Credits
<b>Year 1 - Pharmacy</b>		
Students take <b>60</b> credits as follows:		
<i>Core Modules</i>		

AN1075	Principles of Human Structure for Pharmacy Students	5
BC1443	Biochemistry	10
PF1009	Introduction to Pharmaceutical Chemistry	10
PF1010	Physiochemical Basis of Pharmaceuticals	5
PF1011	Pharmacy Practice I	5
PF1012	Introduction to Pharmaceutics: Formulation Science	10
PL1400	Introduction to Physiology for Pharmacy I	5
PL1401	Introduction to Physiology for Pharmacy II	5
PT1445	Foundation Pharmacology	5

### Year 2 - Pharmaceutical Healthcare Sciences

Students take **60** credits as follows:

#### Core Modules

BC2443	Molecular Biology	5
MB2555	Introduction to Pharmaceutical Microbiology	10
PF2011	Research Methods and Applied Data Analysis	5
PF2012	Pharmaceutical Analysis	5
PF2013	Pharmaceutical Chemistry	5
PF2014	Pharmacy Practice II	5
PF2015	Pharmaceutical Sciences Literature Review I	5
PF2016	Pharmaceutical Technology	5
PF2017	Sterile Pharmaceutical Preparations	5
PT2448	Cellular and Molecular Basis of Drug Action and Toxicity	10

### Year 3 - Pharmaceutical Healthcare Sciences

Students take **60** credits as follows:

#### Core Modules

PF3009	Gastrointestinal, Hepatic and Endocrine Systems	10
PF3010	Cardiovascular and Renal Systems	10
PF3012	Respiratory, Musculoskeletal and Dermatology Systems	10
PF3013	Clinical Immunology and Infection	5
PF3014	Regulatory Science	5
PF3015	Pharmacokinetics: From Basic Principles to Clinical Applications	10
PF3016	Pharmacognosy and Phytopharmaceuticals	5
PF3017	Pharmaceutical Sciences Literature Review II	5

**Total Credits** **180**

## Non-Pharmacy Exit Pathway for students not completing Third Year Pharmacy

Code	Title	Credits
<b>Year 1 - Pharmacy</b>		
Students take <b>60</b> credits as follows:		
<i>Core Modules</i>		
AN1075	Principles of Human Structure for Pharmacy Students	5
BC1443	Biochemistry	10
PF1009	Introduction to Pharmaceutical Chemistry	10
PF1010	Physiochemical Basis of Pharmaceuticals	5
PF1011	Pharmacy Practice I	5

PF1012	Introduction to Pharmaceutics: Formulation Science	10
PL1400	Introduction to Physiology for Pharmacy I	5
PL1401	Introduction to Physiology for Pharmacy II	5
PT1445	Foundation Pharmacology	5

**Year 2 - Pharmacy**

Students take **60** credits as follows:

*Core Modules*

BC2443	Molecular Biology	5
MB2555	Introduction to Pharmaceutical Microbiology	10
PF2010	Professional Pharmacy Core Skills	5
PF2011	Research Methods and Applied Data Analysis	5
PF2012	Pharmaceutical Analysis	5
PF2013	Pharmaceutical Chemistry	5
PF2014	Pharmacy Practice II	5
PF2016	Pharmaceutical Technology	5
PF2017	Sterile Pharmaceutical Preparations	5
PT2448	Cellular and Molecular Basis of Drug Action and Toxicity	10

*Optional Module <sup>1</sup>*

PF2018	Experiential Placement in a Pharmacy Setting <sup>2</sup>	
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**Year 3 - Pharmaceutical Healthcare Sciences**

Students take **60** credits as follows:

PF3009	Gastrointestinal, Hepatic and Endocrine Systems	10
PF3010	Cardiovascular and Renal Systems	10
PF3012	Respiratory, Musculoskeletal and Dermatology Systems	10
PF3013	Clinical Immunology and Infection	5
PF3014	Regulatory Science	5
PF3015	Pharmacokinetics: From Basic Principles to Clinical Applications	10
PF3016	Pharmacognosy and Phytopharmaceuticals	5
PF3017	Pharmaceutical Sciences Literature Review II	5

**Total Credits** **180**

<sup>1</sup> Students electing to take this optional module must secure a work placement relevant to the discipline, to be undertaken outside of term-time (minimum two weeks (70 hours)) subject to the approval of the School of Pharmacy.

<sup>2</sup> Not included for progression to subsequent year and is not counted toward the final degree award. The result obtained will be recorded on the student's transcript.

<sup>3</sup> Modules will be completed while on placement.

**Examinations**

Full details and regulations governing Examinations for each programme will be contained in the *Marks and Standards Book* and for each module in the *Book of Modules*.

**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.