

Junior Fresh (First Year)

- Physiology
- Cell & Molecular Biology
- Biochemistry
- Organic & Inorganic Chemistry for Pharmacy
- Physical Pharmacy I
- Pharmaceutical Analysis I
- Introduction to Pharmaceutics & Formulation, including Mathematical Methods & Pharmaceutical Calculations
- Practice of Pharmacy I
- General Principles of Pharmacology

Senior Fresh (Second Year)

- Properties & Analysis of Materials used in Medicines
- Physical Pharmacy II, Drug Transport and Kinetics
- Formulation & Pharmaceutical Technology
- Practice of Pharmacy II
- Pharmaceutical Biochemistry & Biotechnology
- Molecular & Chemotherapeutic
- Pharmacology & Clinical Therapeutics
- Blood, Cardiovascular & Renal
- Pharmacology and Clinical Therapeutics

Junior Sophister (Third Year)

- Natural Sources of Drugs & Substances used in Medicines
- Sterile Products & Advanced
- Pharmaceutical Biotechnology
- Practice of Pharmacy III
- Endocrine & Reproductive
- Pharmacology & Clinical Therapeutics
- Respiratory & Gastrointestinal Systems & Clinical Therapeutics
- Malignant Disease, Immune & Ocular Systems and Clinical Therapeutics
- Neuropharmacology & Clinical Therapeutics

Senior Sophister (Fourth Year)

- Organisation & Management Skills
- Professional Skills Development
- Professional Practice
- Advanced Pharmaceutical Chemistry,
- Drug Discovery & Design
- Evidence Informing Practice
- Senior Sophister Capstone Research Project

All students undertake an individual research project. The following are some examples of research projects which students have undertaken in the past:

- Anticancer Drug Design: Chemistry and Biochemistry of Novel β Lactams
- In Vitro release studies of Insulin-Loaded Nanoparticles in the presence of simulated Gastrointestinal (GI) Fluids
- A comparison of Amorphous Solid Dispersions prepared by film casting and spray drying
- Cross-Sectional Survey of patient experience of using Oral Anticoagulant Drugs

Year 5 (M. Pharm. Year)

There will be a postgraduate fee associated with the fifth year on the postgraduate register in Trinity, payable by the student. The M. Pharm. degree carries with it an entitlement to apply to the Pharmaceutical Society of Ireland for registration as a pharmacist.

Modules

- Industrial Pharmacy
- Complementary and Alternative Medicine: Context, Legislation, Standards and Practice Advanced Pharmaceutics
- Practice of Pharmacy & Integrated Pharmacy Skills
- Addiction Pharmacy
- Supply of Medicines and Organisation and Management Skills
- Leading the Safe and Rational Use of Medicines
- Professional Practice and Public Health Practice
- Pharmacy Research Project
- Experiential Learning and Professional Registration Examination



Trinity College Dublin
Coláiste na Tríonóide, Baile Átha Cliath
The University of Dublin

The School of Pharmacy
and Pharmaceutical Sciences

Pharmacy TR072

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Pharmacy is the study of all aspects of drugs, both natural and synthetic in origin, including their chemistry, their uses in medicines, and how they work within the body.



Pharmacists work in a variety of settings – community pharmacies, hospitals, long-term care facilities, and within the pharmaceutical industry: to name just a few.

In many respects, their role as a key healthcare professional is to help people achieve the best results from their medications.

While this degree is an essential requirement if you wish to practise as a community or hospital pharmacist, Pharmacy at Trinity opens a wide variety of professional opportunities in both industry and the healthcare sector. A strong interest in science is important to fully enjoy the course.

The Pharmacy syllabus has been designed to provide you with an all-round education in the pharmaceutical sciences and in the practice of pharmacy.

The five-year integrated Pharmacy programme comprises a variety of approaches to teaching Pharmacy by friendly, dedicated, enthusiastic and approachable staff: Lectures, seminars, tutorials, workshops, small-group teaching, problem-based learning, site-visits, computer-assisted learning, web discussion boards, wikis, online group assignments, communication skills, career planning, clinical case studies, inter-professional learning, laboratory and dispensing practicals and a research project.

Modules are assessed by continuous assessment, such as written assignments, essays, lab reports, OSCEs (objective structured clinical examinations), etc. and final examinations which all contribute to the overall mark in a module. There are approximately 20 hours of lectures, 9 hours of laboratory classes and 1 tutorial per week over the course of the Junior Fresh (first) year. Structured practice placements in a variety of pharmacy settings occur throughout the course.

COURSES/PROGRAMMES

- **Pharmacy (Integrated) Programme**
- **M.Sc./Diploma in Pharmaceutical Sciences**
- **M.Sc./Postgraduate Diploma in Pharmaceutical Manufacturing Technology**
- **M.Sc. in Hospital Pharmacy**
- **Cardiology in Clinical Pharmacy Practice Module**
- **CPD in Pharmaceutical Innovation**

Special Entry Requirements

O4 or H6 Mathematics
H4 Chemistry or Physics and Chemistry
H4 in one of Physics, Biology, Mathematics, Applied Mathematics, Geography, Geology, or Agricultural Science or Computer Science

Structured Professional Placements

Structured professional placements are a key element of the Five Year Pharmacy (Integrated) programme. These experiential learning placements occur in 2nd year (two-week placement), 4th year (four-month placement) and 5th year (eight-month placement). During the 5-year course, students will have an opportunity to do placements in a variety of pharmacy settings including: community pharmacy, hospital pharmacy, the pharmaceutical industry, academia and in role emerging practice settings such as state services and medicines licensing. Placements are managed by APPEL (Affiliation for Pharmacy Practice Experientia Learning), a unique collaboration of the three Schools of Pharmacy in Ireland: University College Cork (UCC), the Royal College of Surgeons in Ireland (RCSI), and Trinity College Dublin (TCD).

The School of Pharmacy and Pharmaceutical Sciences



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