If you wish to expand and deepen your knowledge beyond the undergraduate programme, you can opt to pursue postgraduate studies, such as an M.Sc. in Pharmaceutical Science and Technology or a Ph.D., which prepares you for careers in academia, research or management.

### Course Structure

#### Objectives and Learning Outcomes
- Acquisition of a broad foundation in pharmaceutical science
- Development of research skills
- Preparation for professional registration
- Preparation for further study

#### Experiential Learning
- Overseas exchange
- Internships

#### Specialised Electives
- Drug Design & Discovery
- Pharmacokinetics & Toxicokinetics
- Protein Therapeutics
- Quality Control & Techniques

### Career Opportunities
- Analytical scientist
- Clinical researcher
- Drug analyst
- Educator
- Healthcare entrepreneurs
- Medical sales manager
- Pharmaceutical scientist
- Procurement manager
- Product development specialist
- Product innovation specialist
- Product specialist
- Quality assurance scientist
- Regulatory affairs specialist
- Researcher

### Potential Employers
- Consultancy firms
- Consumer healthcare companies
- Drug regulatory authorities
- Government agencies
- Pharmaceutical companies (e.g. drug manufacturing, biotechnology companies)
- Pharmaceutical distributors
- Research institutes
- Universities

### Bachelor of Science (Honours) in Pharmaceutical Science

This programme is designed to provide you with niche knowledge, skills and professional experience to build a career in the pharmaceutical, biomedical and consumer healthcare sectors. You will have excellent career prospects in diverse areas. You may also find employment in areas outside the pharmaceutical industry.

**Careers**

- Analytical scientist
- Clinical researcher
- Drug analyst
- Educator
- Healthcare entrepreneurs
- Medical sales manager
- Pharmaceutical scientist
- Procurement manager
- Product development specialist
- Product innovation specialist
- Product specialist
- Quality assurance scientist
- Regulatory affairs specialist
- Researcher

**Foundational Studies**

- Human Medical Science
- Biochemistry
- Pharmaceutical Chemistry
- Biostatistics
- Bioinformatics

**Career Opportunities**

- Analytical scientist
- Clinical researcher
- Drug analyst
- Educator
- Healthcare entrepreneurs
- Medical sales manager
- Pharmaceutical scientist
- Procurement manager
- Product development specialist
- Product innovation specialist
- Product specialist
- Quality assurance scientist
- Regulatory affairs specialist
- Researcher

**Bachelor of Science (Honours) in Pharmaceutical Science**
To address the growing demand for skilled professionals, NUS Department of Pharmacy will offer a new B.Sc. in Pharmaceutical Science programme.

Pharmaceutical science forms the foundational scientific basis of the physical, chemical, biological and the biomedical aspects of drug properties and actions. It comprises a range of scientific subjects that deal with various aspects of pharmaceutical substances that are used to manufacture medicinal products. Advancements in pharmaceutical science will impact drug discovery, drug formulation as well as the regulation and practice of pharmacy.

Students joining this landmark programme will be trained in a range of foundational sciences, gaining understanding of drug discovery and development, as well as the regulatory and commercial environment in the pharmaceutical industry. You will acquire knowledge in areas such as Medicinal Chemistry, Pharmaceutics, Pharmaceutical Technology, Pharmaceutical Analysis, Biotechnology, Pharmacoeconomics and Pharmacogenetics.

Over the past 15 years, Singapore has built world-class infrastructure for pharmaceutical manufacturing, and research and development, while successfully positioning itself as Asia’s Innovation Capital in this sector. Many global pharmaceutical firms have established headquarter functions in Singapore, to leverage on our hub status for better access to emerging markets in Asia. This has generated new and exciting pharmaceutical job opportunities in Singapore.

Flexible curriculum: Plan your own learning journey and pursue other academic interests such as a Minor in Forensic Science, Business, or Analytical Chemistry.

Industry exposure: Undertake a final year project or structured internships through our Undergraduate Professional Internship Programme, where you gain on-the-job training by working on real-world issues facing industry, as well as a better understanding of your career options.

Cutting-edge research opportunities: Be part of the latest developments in pharmaceutical science, by participating in the Undergraduate Research Opportunities Programme in Science under the mentorship of our experienced faculty members.

Global exposure: Participate in a range of study abroad and student exchange programmes at over 300 partner universities. This opens the door to a global learning experience, broadening your intellectual and social horizons. You will also have opportunities to meet your international counterparts at world and regional congresses organised by the International Pharmaceutical Students’ Federation.

Vibrant student life: Be part of the NUS Pharmaceutical Society, our student-led organisation which engages and empowers the student body, enabling you to further develop interpersonal, leadership and networking skills.

“We remain confident in Singapore’s competitive positioning in the pharmaceutical and broader manufacturing sector. We are investing in the ecosystem, the environment and our people, and will work with the industry to enhance our innovation and research and development.”

Minister for Trade and Industry (Industry) Mr S Iswaran at Opening of Abbott’s Biologic Manufacturing Site, 4 October 2017