BACHELOR OF PHARMACY GRADUATE PROFILE

A graduate of the Bachelor of Pharmacy (BPharm) at The University of Auckland will display a commitment to patient-centred, evidence-based and collaborative pharmacy practice in order to improve the health of the communities in which they serve. They will have the relevant knowledge base, research and professional skills, generic skills of an Auckland graduate, and the professional and social values, attitudes, behaviours and competencies required for entry to the profession of pharmacy.

The BPharm graduate attributes and learning outcomes have been grouped in five Domains of Learning:

**DOMAIN ONE: APPLIED SCIENCE FOR PHARMACY**

Graduates will have a broad body of scientific knowledge encompassing the chemical, biomedical, pharmacological, social and behavioural sciences that underpin the practice of pharmacy. This will enable graduates to critically discuss:

- **D1.1** the normal structure and function of the human body including relevant aspects of anatomy, physiology, biochemistry, immunology and microbiology;
- **D1.2** mechanisms of human disease;
- **D1.3** principles of health psychology and human behaviour as related to healthcare;
- **D1.4** the scientific basis of drug action and principles of pharmacokinetics, pharmacodynamics, toxicology, pharmacogenetics and personalised medicine;
- **D1.5** principles of epidemiology and population health and the structure of health systems.

**DOMAIN TWO: SCIENCE OF DRUG DELIVERY**

Graduates will have a broad body of scientific knowledge encompassing the chemical, biological and pharmaceutical sciences that underpin drug delivery. This will enable graduates to critically discuss:

- **D2.1** the physicochemical properties and assessment of drugs and excipients;
- **D2.2** the principles of biopharmaceutics including absorption, distribution, metabolism and elimination of drugs, and the design, manufacture and performance of drug dosage forms;
- **D2.3** routes of administration for pharmaceutical products and the inter-relationship between formulation, drug delivery, therapeutic effectiveness and safety;
- **D2.4** the ways in which medicines are discovered, developed, manufactured and brought to the market, and quality assurance systems for pharmaceutical products;
- **D2.5** biotechnology and its application to healthcare.

**DOMAIN THREE: CLINICAL PHARMACY PRACTICE**

Graduates will have a broad body of scientific knowledge encompassing the clinical, pharmaceutical and behavioural sciences that underpin medicines optimisation. This will enable graduates to critically discuss:

- **D3.1** common disease states, both acute and chronic, in terms of their epidemiology, pathophysiology and diagnosis, including consideration of special populations and patients with multiple morbidities;
- **D3.2** the chemistry and clinical pharmacology of medicines, including natural health products, used to treat these conditions;
- **D3.3** the principles that underpin the selection and prescribing of medicines for individual patients, including relevant pharmaceutical, pharmacokinetic and pharmacoeconomic considerations;
- **D3.4** the principles of medicines management and pharmaceutical care including care planning, patient education and monitoring of medication-related outcomes;

**DOMAIN THREE: CLINICAL PHARMACY PRACTICE SKILLS**

In addition, graduates will demonstrate a range of pharmacy-specific skills to equip them for professional practice and apply those skills with a culturally sensitive, empathetic, patient-centred approach. This will enable graduates to competently:

- **D3.5** research and provide medicines information and advise patients and other health professionals on all aspects of medicines use;
- **D3.6** assist patients with education about medicines and engage in practices to increase adherence;
D3.7 supply medicines in accordance with all legal, ethical and professional requirements, and optimise health outcomes associated with the use of medicines;
D3.8 interpret and evaluate prescriptions and other requests for medicines to ensure safety, quality, efficacy, economy and optimal use;
D3.9 prepare extemporaneous pharmaceutical products (sterile/non-sterile) in a safe and legal manner;
D3.10 perform pharmaceutical calculations accurately;
D3.11 provide primary health care to patients, including the use of non-prescription medicines and natural health products, and engage in relevant health promotion and health education activities;
D3.12 perform relevant physical assessment and undertake other clinical activities appropriate to existing and emerging pharmacy roles such as medicines management, screening, monitoring and vaccination;
D3.13 participate in inter-professional learning activities to better understand the role and contribution of pharmacists and other health professionals in patient care.

**DOMAIN FOUR: HAUORA MĀORI**

Graduates will, with a critical understanding of the social, cultural, political, economic and environmental determinants impacting on Māori health:

- D4.1 Interact safely and effectively with Māori individuals, whānau and communities;
- D4.2 Explain how health inequalities between Māori and non-Māori have been created and are maintained, and actively work to reduce and eliminate such inequalities;
- D4.3 Identify and address their own implicit and explicit biases in relation to Māori health;
- D4.4 Actively audit their own practice to identify and address differential quality and outcomes between Māori and non-Māori;
- D4.5 Monitor and address professional development needs as a basis for life-long learning about Māori health.

**DOMAIN FIVE: PERSONAL AND PROFESSIONAL SKILLS AND ATTITUDES**

Graduates will demonstrate a range of personal and professional skills including oral and written communication, critical thinking, research and problem-solving, learning for life, numeracy and information literacy, management and leadership. They will be able to competently:

- D5.1 listen and speak in a sensitive and culturally appropriate manner to elicit and provide information and engage in productive dialogue;
- D5.2 use the appropriate style, level and means of oral and written communication for the target audience;
- D5.3 provide information, analysis, argument and critique in a structured, logical and fluent manner;
- D5.4 recognise the value and influence of their own culture and the perspectives of those from other cultures and backgrounds;
- D5.5 recognise ethical dilemmas and understand how these may be managed within a legal framework;
- D5.6 recognise the limitations of their own practice and both engage in self-reflection to improve performance and seek guidance to confirm their solution/s to practice problems;
- D5.7 develop appropriate learning techniques to enable self-directed learning for life;
- D5.8 apply logical, critical and creative thinking to the identification of problems and use evidence-based information to provide and justify solutions;
- D5.9 access, manage and use information efficiently and effectively in a range of contexts using appropriate technology;
- D5.10 utilise a range of current and emerging health technologies involved in patient care;
- D5.11 interpret and apply numerical data in making decisions based on logic and statistical principles;
- D5.12 participate in the planning, execution and dissemination of an original research project relevant to the practice of pharmacy or the pharmaceutical sciences;
- D5.13 apply principles of personal and time management, personnel management, financial management, strategic thinking and risk management in a practice context;
- D5.14 contribute as a constructive and collaborative member of healthcare and professional teams, and as a leader for elements of professional practice;
- D5.15 collaborate with patients, families and community networks to improve patient care and health outcomes for individuals and populations.

In addition, graduates will demonstrate the following professional and social values, attitudes and behaviours; attributes which are embedded throughout the programme:

- D5.16 professionalism;
- D5.17 personal values of fairness, respect, integrity, ethical behaviour, and social and professional responsibility;
- D5.18 service to the community and the profession.