Bachelor of Pharmacy (SC45)

Year offered: 2011
Admissions: Yes
CRICOS code: 055902G
Course duration (full-time): 4 years
Domestic Fees (indicative): 2011: CSP $2,458 (indicative) per semester
International Fees (indicative): 2011: $11,875 (indicative) per semester
Domestic Entry: February
International Entry: February - IELTS of 7.0 with no sub-score less than 7.0 (Quota applies)
QTAC code: 418512
Past rank cut-off: 92
Past OP cut-off: 5
Assumed knowledge: English (4, SA), Maths B (4, SA) and Chemistry (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.qut.edu.au/assumed-knowledge
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Fraser Ross
Campus: Gardens Point

Overview
QUT's Bachelor of Pharmacy has been designed in close consultation with the pharmacy profession to capture the latest practices and emerging trends in community and hospital pharmacy. Pharmacists play an important role in the health-care sector by dispensing medications and counselling patients on their appropriate use.

Why Choose This Course
This course is continually updated in close consultation with senior representatives of the pharmacy profession. The inclusion of essential pharmacy and business management skills will help you to operate effectively in your chosen setting. QUT’s small class sizes and comprehensive modern facilities ensure a high-quality educational experience.

Professional Recognition
Following graduation, approximately 12 months of pre-registration training performed under the supervision of a registered pharmacist is required to meet the registration requirements of the Pharmacists Board of Queensland.

Graduates will be eligible for membership of a number of professional associations, including the Pharmaceutical Society of Australia, the Pharmacy Guild and the Society of Hospital Pharmacists of Australia.

English Language Skills (Applicable to health practitioners applying for registration)
All applicants must be able to demonstrate English language skills at IELTS academic level 7.5 or equivalent. Test results from examinations will generally need to be obtained within two years prior to applying for registration.

Other Course Requirements
You must be vaccinated for Hepatitis B and provide a post-vaccination pathological report or similar certification showing proof of immunity prior to undertaking your first clinical placement.

Blue card
A current blue card authorised with QUT may be required prior to commencing the clinical placement components of this course. For more information visit Blue Card, and ensure that you allow adequate time for processing your application and issuing of the card in order to avoid clinical experience delays.

Your Course
Year 1
You will undertake theoretical and practical studies covering chemistry, maths, anatomy and biology. You will begin practising your communication skills in QUT’s pharmacy counselling room, which operates like a real pharmacy counter. You will gain an understanding of the operations of a community pharmacy, including prescription processing, product labelling, and the therapeutic use of over-the-counter (OTC) medications. You will also gain an introduction to retailing skills.

Year 2
You will undertake your first clinical placement in a real community pharmacy environment. At QUT you will expand your counselling skills and increase your knowledge regarding a range of OTC and prescription medications used to treat cardiovascular and gastrointestinal tract disorders. You will learn how to perform pharmaceutical calculations, prepare basic pharmaceutical products and gain a deeper understanding of how drugs interact with the human body, producing their therapeutic and sometimes adverse effects.

Year 3
You will proceed to topics which provide vital information to health professionals regarding the optimal choice of drug therapy for individual patients. There is an emphasis on drugs used to treat central nervous system disorders, in addition to drugs prescribed for cancer and infectious diseases. You will learn how to prepare more complex
product formulations and spend three hours per week in a community or hospital pharmacy followed by a one-week full-time clinical placement in each semester.

**Year 4**
You will study further specialised topics including pharmacotherapeutics, epidemiology and pharmacoconomics. There is an emphasis on the integration and application of your studies into current pharmacy practice. A range of guest lecturers will also present material regarding social issues and current practices in women's and Indigenous health.

**Recommended Study**
Biological Science.

**Limits on grades of 3**
A new policy concerning grades of 3 came into effect from 1 January 2009 (QUT MOPP C/5.2). With effect from this date grades of 3 are no longer considered a conceded or low pass but are classified as a fail grade. Any grades of 3 awarded prior to 1 January 2009 retain the conceded pass status and will be counted for graduation purposes up to the maximum number of grades of 3 permitted for your course. Grades of 3 incurred in units that commence after 1 January 2009 will not count towards your degree. Further information is available on the Student Services website.

**Deferment**
Domestic students can defer their offer in this course for one year. In exceptional circumstances up to 12 months of additional deferment may be granted.

Find out more on deferment.

**Further Information**
For further information about this course, please contact:

**Course Coordinator**
Associate Professor Fraser Ross
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Email: fb.ross@qut.edu.au

**Course structure**

**Year 1, Semester 1**
- MAB141 Mathematics and Statistics for Medical Science
- PYB007 Interpersonal Processes and Skills
- SCB112 Cellular Basis of Life
- SCB113 Chemistry for Health and Medical Science

**Year 1, Semester 2**
- LSB255 Human Anatomy
- SCB122 Cell and Molecular Biology
- SCB131 Experimental Chemistry
- SCB208 Introduction to Pharmacy Practice

**Year 2, Semester 1**
- LQB388 Medical Physiology 1
- LSB325 Biochemistry
- SCB308 Pharmacy Practice 1
- SCB338 Pharmaceutical Chemistry and Pharmacology

**Year 2, Semester 2**
- LQB488 Medical Physiology 2
- SCB408 Pharmacy Practice 2
- SCB428 Pharmacokinetics
- SCB438 Medicinal Chemistry and Pharmacology

**Year 3, Semester 1**
- LQB386 Microbial Structure and Function
- SCB508 Pharmacy Practice 3
- SCB528 Pharmaceutics 1
- SCB538 Pharmacology 3

**Year 3, Semester 2**
- SCB608 Pharmacy Practice 4
- SCB628 Pharmaceutics 2
- SCB638 Pharmacogenomics and Drug Metabolism
- SCB648 Pharmacotherapeutics 1

**Year 4, Semester 1**
- SCB708 Pharmacy Practice 5
- SCB748 Pharmacotherapeutics 2
- SCB758 Pharmacy Management 1
- SCB768 Professional Placements 1

**Year 4, Semester 2**
- SCB808 Pharmacy Practice 6
- SCB848 Pharmacotherapeutics 3
- SCB858 Pharmacy Management 2

NOTES:
- Progression to Year 4 cannot occur before the successful completion of Years 1, 2 and 3.
- Year 4 requires enrolment in all four (4) units each semester.
SCB868 Professional Placements 2

Potential Careers: Community Pharmacist, Hospital Pharmacist, Pharmaceutical Research Scientist.

UNIT SYNOPSISES

LQB386 MICROBIAL STRUCTURE AND FUNCTION
Aspects of microbiology impinge upon many facets of daily life, for example, human health, genetic engineering, the food industry and the built and natural environment. The unit introduces you to and provides you with a solid foundation in the basic microbiology required for progression to advanced studies in Microbiology. This unit provides knowledge about safe handling and study of micro-organisms that is also very important in many other disciplines, because micro-organisms are used as models and tools in a wide range of study areas.
Prerequisites: SCB112 and (SCB121 or SCB113)
Antirequisites: LQB328
Credit points: 12 Contact hours: 4 per week
Campus: Gardens Point
Teaching period: 2011 SEM-1

LQB388 MEDICAL PHYSIOLOGY 1
This unit deals specifically with the physiological systems that are responsible for the maintenance of health in humans. In the course of the semester students will investigate half the systems that constitute the human body (with the remainder dealt with in the second semester unit Physiology 2 [LQB488]). The unit offers a useful frame of reference for students enrolled in courses such as animal biology, biochemistry, microbiology, molecular biology, nutrition and human movements. Together with Physiology 2 [LQB488] this unit is a prerequisite to the third level unit, Applied Physiology [LQB588] and will be of particular interest to students considering medicine as a postgraduate career option.
Prerequisites: LS111 or LS131 or LS142 or LS255 or LS258 or SCB120
Antirequisites: LQB358
Credit points: 12 Contact hours: 4 per week
Campus: Gardens Point
Teaching period: 2011 SEM-1

LQB488 MEDICAL PHYSIOLOGY 2
An appreciation of how the human body works is an essential prerequisite to understanding the basis of health, disease, diagnostic technologies and treatment strategies. This unit deals specifically with the physiological systems that are responsible for the maintenance of health in humans. It therefore provides a useful frame of reference for students enrolled in biomedical science, pharmacy, human movement studies, nutrition and dietetics or any of the life science majors. The aim of this unit is to introduce you to the normal physiology of the human body in order to facilitate an understanding of how injury or disease affect health as well as the mechanism of action of drugs and other therapeutic interventions.
Prerequisites: LS111, LS131, LS142, LS255, LS258, NRB270 or SCB120
Antirequisites: LQB488
Credit points: 12 Contact hours: 4 per week
Campus: Gardens Point
Teaching period: 2011 SEM-1

LQB255 HUMAN ANATOMY
A detailed understanding of human anatomy is fundamental to the knowledge base of the medically orientated biological scientist. This unit introduces you to both theoretical and practical aspects of gross, systemic and microscopic anatomy of the human body with emphasis on the microscopic anatomy. The unit builds upon knowledge gained in previous units which introduced you to basic principles of cell structure and function. Knowledge gained in this unit provides a basis for more advanced studies in cellular pathology, histochemistry and cytology.
Prerequisites: SCB112 or LS118 or LQB182
Antirequisites: LSB152
Credit points: 12 Contact hours: 4 per week
Campus: Gardens Point
Teaching period: 2011 SEM-2

LSB325 BIOCHEMISTRY
The study of biochemistry and cell biology, along with anatomy and physiology, provides students with the knowledge required for the proper understanding of the structure and function of the human body and its organ systems in health and disease, as a preparation for their clinical studies.
Prerequisites: SCB121 or SCB113
Antirequisites: LSB381, LSB481
Credit points: 12 Contact hours: 4 per week
Campus: Gardens Point
Teaching period: 2011 SEM-1

MAB141 MATHEMATICS AND STATISTICS FOR MEDICAL SCIENCE
This unit includes: mathematics (functions, limits and continuity; differentiation of functions and applications of differentiation; solutions of equation by iteration; interpolation methods; integration and applications of integration); statistics (data collection; exploring, presenting and modelling data; Normal distribution; hypothesis testing and confidence intervals for means and proportions; one-way and two-way ANOVA; simple and multiple regression; design of experiments). These topics are presented in the context of medical science. Students must have completed four semesters of Senior Mathematics B with an exit level of Sound Achievement or better, or have passed MAB105.
Antirequisites: MAN101, MAB101, LQB284
Assumed knowledge: Grade of at least Sound Achievement in Senior Mathematics B (or equivalent) or MAB105 is assumed knowledge.
Equivalents: MAB140
Credit points: 12

Potential Careers: Community Pharmacist, Hospital Pharmacist, Pharmaceutical Research Scientist.
Contact hours: 4 per week  Campus: Gardens Point  
Teaching period: 2011 SEM-1 and 2011 SEM-2

PYB007 INTERPERSONAL PROCESSES AND SKILLS
Psychology is generally a people-based profession with many positions involving not only understanding and testing people but communicating with them. More broadly however in most areas of modern work, and indeed within personal relationships, people need developed interpersonal skills and the ability to conceptualise interactive processes. The microskills for communication are also the foundation for helping relationships and counselling.
Antirequisites: PYB074, HHB113, PYB111  Credit points: 12  Contact hours: 3 per week  Campus: Gardens Point and Kelvin Grove  Teaching period: 2011 SEM-1 and 2011 SEM-2

SCB112 CELLULAR BASIS OF LIFE
Scientists from all disciplines need an appreciation and a broad overview of the characteristics and functioning of the five groups of living organisms (bacteria, protists, fungi, plants and animals), and their interactions with the inanimate world. SCB112 Cellular Basis of Life is a first semester unit that is essential for many students undertaking courses requiring biological knowledge. Through integrated lecture and laboratory classes, this unit provides you with a foundation for later more advanced studies in your course or major (eg such as medical science, biomedical science, pharmacy, optometry, biochemistry, biotechnology, microbiology, geosciences, ecology, business and education among others). The aim of this unit is to introduce you to the wide diversity of living organisms while emphasising the unity of life processes at the cellular, biochemical and biophysical levels.
Antirequisites: LQB182, LSB118  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1 and 2011 SEM-2

SCB113 CHEMISTRY FOR HEALTH AND MEDICAL SCIENCE
A challenging chemistry unit designed for students undertaking health and/or medical science degrees. A range of topics from sub-discipline areas of general, physical and organic chemistry are covered. General/physical chemistry content includes atomic and molecular structure, electronic structure, bonding, molecular geometry, stoichiometry, thermodynamics, gases, kinetics, equilibrium, acids, bases, buffers, and electrochemistry. Organic chemistry content includes functional group chemistry, reaction mechanisms, stereochemistry, chirality as well as topics of biological significance including the chemistry of peptides, sugars and DNA. The unit is complemented by a practical program involving a range of experiments illustrating important chemical concepts.
Antirequisites: PQB105, SCB111 and SCB121  Credit points: 12  Contact hours: 5 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1

SCB122 CELL AND MOLECULAR BIOLOGY
SCB122 Cell and Molecular Biology 1 equips students with a comprehensive understanding the molecular basis of the cell. This unit expands on the basic principles and concepts relating to cell structure, function, perpetuation and specialisation introduced in SCB112 and introduces students to fundamental molecular mechanisms central to the organisation of the cell. Students will be shown how macromolecular interactions are crucial to information flow and heredity. Students are taught the relationships between chromosomes, genes and cellular function and ultimately how these may determine an organism's phenotype. This unit underpins cell biology and molecular biology units that are offered in second year Life Science units. SCB122 is also ideal for interfaculty students (eg Education, Business, Arts) who will undertake no further life science studies.
Prerequisites: SCB112, SCB112 can be studied in the same teaching period. Antirequisites: LSB238  Credit points: 12  Contact hours: 4.5 per week  Campus: Gardens Point  Teaching period: 2011 SEM-2

SCB131 EXPERIMENTAL CHEMISTRY
Chemistry is the central science. A detailed study of chemistry and related disciplines requires the development of practical laboratory skills for synthesis and chemical analysis. This unit is designed specifically to develop these aspects of chemistry. This unit is a laboratory-based unit which is designed for students who intend to continue with experimental science units. The lectures complement the weekly practical sessions and teach the theory required to interpret experimental results. The aim of this unit is to develop a broad knowledge of, and the practical skills required for, scientific experiments in chemistry. The skills acquired in this unit are transferable to other practical sciences including medical science, biochemistry, molecular biology and pharmacy.
Prerequisites: SCB113 or PQB105 or (SCB111 and SCB121). SCB121 can be concurrently enrolled with SCB131  Credit points: 12  Campus: Gardens Point  Teaching period: 2011 SEM-2

SCB208 INTRODUCTION TO PHARMACY PRACTICE
This introductory unit will provide an overview of the activities of a community pharmacy, including the processing of prescriptions, complementary medicine products and other front of shop merchandise. Topics cover foundation practical knowledge and skills (needed for professional placements in later units) together with retailing skills such as merchandising, stock control and computerised point of sales systems.
Prerequisites: PYB007  Credit points: 12  Contact hours: 5 hours per week  Campus: Gardens Point
Teaching period: 2011 SEM-2

SCB308 PHARMACY PRACTICE 1
A principle role of pharmacists is to dispense and provide advice on the use of large range over the counter (OTC) medications. This unit will provide knowledge on the therapeutic use and regulatory requirements of OTC medications and reinforce the communication skills that are necessary to effectively counsel patients on their proper use and the possible incidence and presentation of adverse effects. An introduction to nutrition and diet will also be provided by the Health Faculty. Experiential placements will also commence during this unit. Additionally, this unit will facilitate the mastery in the proper use of a wide range of basic pharmaceutical calculations which are imperative for the correct determination and validation of prescribed doses of drugs.
Prerequisites: SCB208  Corequisites: SCB338
Assumed knowledge: Students should enrol in SCB338 in the same semester unless previously completed  Credit points: 12  Contact hours: 5 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1

SCB338 PHARMACEUTICAL CHEMISTRY AND PHARMACOLOGY 1
Pharmacists require a detailed understanding of the physiochemical properties of drugs and an appreciation of the process of Drug Discovery to facilitate an understanding of how the current range of medicines have been developed. This unit will also provide an understanding of the analytical chemistry techniques that are used to quantitate the active compounds in both pharmaceutical formulations and biological samples, and spectroscopic techniques used in structural elucidation of biologically active compounds. Additionally, this unit will introduce the discipline of pharmacology which examines the interaction of chemical substances with biological system which is fundamental to the understanding of the molecular actions of pharmaceutical products.
Prerequisites: SCB122 and SCB131  Corequisites: SCB308
Assumed knowledge: Students should enrol in SCB308 in the same semester unless previously completed  Credit points: 12  Contact hours: 5 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1

SCB438 PHARMACOKINETICS
This unit is designed to extend the knowledge of physiochemical properties of drugs and how they relate to pharmacokinetic factors which determine the behaviour of drugs following administration. This unit will develop an understanding of how the chemical properties of drugs relate to absorption, distribution metabolism and excretion. This knowledge is essential in understanding the dosing regimen for drugs and their pharmacokinetic parameters in individual patients. Additionally, generic formulations and product substitution will be explored on the basis of the TGA bioequivalence requirements for the products and provide the students to counsel patients on the suitability of generic brands of pharmaceutical formulations.
Prerequisites: SCB338  Credit points: 12  Contact hours: 5 per week  Campus: Gardens Point  Teaching period: 2011 SEM-2

SCB438 MEDICINAL CHEMISTRY AND PHARMACOLOGY 2
A detailed knowledge of medicinal chemistry and pharmacology is essential for the understanding of actions of drugs with endogenous molecular targets. This unit continues to develop the basic principles developed in SCB338 and introduces the concept of structure activity relationships (SARs) which demonstrates the linkage between the chemical structure of drugs and their biological activity and selectivity. The medicinal chemistry of a number of major drug classes are examined in detail, including adrenergic, cholinergic, serotonergic and antihypertensive drugs. This unit also provides an extension of this knowledge in pharmacology and focuses on the drug classes that act on the cardiovascular, respiratory, eye, renal, gastrointestinal systems.
Prerequisites: SCB338  Corequisites: SCB408
Credit points: 12  Contact hours: 5 per week  Teaching period: 2011 SEM-2

SCB508 PHARMACY PRACTICE 3
The dispensing and counselling of scheduled drugs requires expertise in drug knowledge, packaging and labelling, health regulations and legislation, communication techniques, compounding processes and the ability to understand and validate the diagnosis of clinical conditions. This unit will provide students with expertise to dispense
and counsel patients on the therapeutic uses of pharmaceutical drugs that treat infections, endocrine disorders, cardiovascular disease and a range of drug withdrawal syndromes.

**Prerequisites:** SCB408  
**Corequisites:** SCB538  
**Assumed knowledge:** Students should enrol in SCB538 in the same semester unless previously completed  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1

**SCB528 PHARMACEUTICS 1**  
This unit is designed to provide knowledge relating to the physical and chemical properties of the components of pharmaceutical formulations. The formulation of drugs has a large influence on the route of administration, the onset and duration of action and the pharmacokinetic parameters that govern the drugs activity in the human body. This course will introduce you to the basic concepts and theories of pharmaceutical formulation and compounding with a focus on liquid and semi-solid dosage forms.

**Prerequisites:** SCB428  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1

**SCB538 PHARMACOLOGY 3**  
A detailed knowledge of the pharmacology of drugs is essential for pharmacists to understand the therapeutic applications of pharmaceutical compounds and their concomitant adverse effects. This unit provides an extension of this knowledge and covers the drug classes that act on the central nervous system, endocrine system, anticancer drugs, drugs of abuse and pharmacotherapies for withdrawal syndromes.

**Prerequisites:** SCB438  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1

**SCB608 PHARMACY PRACTICE 4**  
The dispensing of schedule drugs to the community requires expertise in drug knowledge, packaging, labelling and health regulations, communication techniques, compounding processes and the ability to understand and validate the diagnosis of clinical conditions. This unit will provide students with expertise to dispense pharmaceutical drugs that are used in the treatment of infectious diseases and the treatment of tumours and malignancies.

**Prerequisites:** SCB508  
**Corequisites:** SCB648  
**Assumed knowledge:** Students should enrol in SCB648 in the same semester unless previously completed  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

**SCB628 PHARMACEUTICS 2**  
This unit is designed to extend the knowledge base of pharmacy students in the discipline of pharmaceutics which is essential to their understanding of pharmaceutical product formulation. This unit will focus on solid dosage form design including tablets and capsules and the theory and practical aspects of controlled release formulations which are increasingly utilised in modern pharmaceutical formulations. Additionally, this unit will extend the student’s expertise in the science of compounding of advanced pharmaceutical formulations.

**Prerequisites:** SCB528  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

**SCB638 PHARMACOGENOMICS AND DRUG METABOLISM**  
The effects of drugs in patients are determined in part by drug metabolizing enzymes. In addition, the ability of an enzyme to metabolize a drug is determined by genetic variability. A detailed understanding of these factors is necessary for pharmacists to understand drug selection, the biological fate of a drug following administration, the appropriate route of administration, the occurrence of adverse effects and the final effect of a drug. This unit will describe the biochemistry of drug metabolism and genetic factors (pharmacogenomics) that affect drug metabolism and variability of drug effects. The field of pharmacogenomics, is becoming increasingly important for understanding the contribution of the patient’s genetic composition to drug effects.

**Prerequisites:** SCB538  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

**SCB648 PHARMACOTHERAPEUTICS 1**  
The dispensing and counselling of pharmacotherapies for infectious diseases requires an advanced knowledge, understanding and skills relevant to infectious disease diagnosis, the mechanism of action of pharmacotherapies, public health microbiology. This unit will demonstrate the correct therapeutic use of drugs in the treatment of infectious diseases following a review of their pathophysiologic basis. Additionally, quality use of medicines issues for these pharmacotherapies will be reviewed and reinforced by the use of clinical scenarios.

**Prerequisites:** SCB538 and LQB386  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

**SCB708 PHARMACY PRACTICE 5**  
The pharmacy practice units in the 4th year of the B Pharmacy course will provide both advanced and updated information on the dispensing and counselling of drugs using case based clinical scenarios. Additionally, students
will be provided with information that will allow them to critically evaluate clinical trial design using studies of newly released drugs as a reference and the role of regulatory authorities during the process of drug approval. Through a series of case based problems and scenarios that will involve a diverse range of diseases and disorders, the students will gain experience in the skills required to dispense medication and effectively communicate drug knowledge to patients.

**Prerequisites:** SCB608 and SCB648  
**Corequisites:** SCB758, SCB768  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1

SCB748 PHARMACOTHERAPEUTICS 2
A number of factors must be considered before a decision concerning the appropriate drug is prescribed and dispensed to patients. This unit will provide a pathophysiological approach to the identification of cardiovascular, respiratory, renal, and endocrine disorders. Students will be instructed on the factors that determine the correct choice of therapeutic drug and the dosing regimen including drug toxicity, pharmacokinetics and pharmacodynamic consideration for the individual patient, drug-drug interactions and pharmacoeconomics considerations.

**Prerequisites:** SCB648  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1

SCB758 PHARMACY MANAGEMENT 1
In addition to their role as allied health care providers, pharmacists are often required to assist in the management of their workplace which consists of supervision and administration of a diverse staff roster, stock inventory and marketing strategies. Moreover, many pharmacists enter into complex partnerships agreements during the purchase of a pharmacy. This unit will provide the basic management tools in the areas of accounting, preparation of budgets and business plans, payroll and GST legislation, marketing, partnerships law, decision making and the use of financial software to effectively understand the information provided by support staff to make effective business decisions.

**Prerequisites:** SCB608 and SCB648  
**Corequisites:** SCB708 and SCB768  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1

SCB768 PROFESSIONAL PLACEMENTS 1
The role of a contemporary pharmacist in providing healthcare products and advice consists of diverse range of skills and abilities in the preparation of pharmaceutical preparations, the dispensing of medications, counselling of patients and their families in their correct use and performing medication reviews. To assist students in developing expertise in these areas, this unit will provide real world experience through a long-term continuous placement in a community or hospital environment under the supervision of qualified preceptor. These placements will consist of a five (5) week block that will commence in the second half of the semester and assessment will consist of the documented completion of a assignments and experiential log book.

**Prerequisites:** SCB608, SCB648  
**Corequisites:** SCB758, SCB708  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1

SCB808 PHARMACY PRACTICE 6
The pharmacy practice units in the fourth year of the Bachelor of Pharmacy course will provide both advanced and updated information on the dispensing and counselling of drugs using case based clinical scenarios. Through a series of case based problems and scenarios that will involve a diverse range of diseases and disorders and aspects of pharmaceutical care, the students will gain experience in the skills required to dispense medication and effectively communicate drug knowledge to patients, and an understanding of the provision of primary health care in the Australian Health system.

**Prerequisites:** SCB708 and SCB768  
**Corequisites:** SCB848, SCB858 and SCB868  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

SCB848 PHARMACOTHERAPEUTICS 3
A number of factors must be considered before a decision concerning the appropriate drug is prescribed and dispensed to patients. This unit will provide a pathophysiological approach to the identification of neurological, mental health and oncological disorders and diseases that affect the eye, ear and skin. Students will be instructed on the factors that determine the correct choice of therapeutic drug and the dosing regimen including drug toxicity, pharmacokinetics and pharmacodynamic consideration for the individual patient, drug-drug interactions and pharmacoeconomics considerations.

**Prerequisites:** SCB648 and SCB748  
**Corequisites:** SCB808  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

SCB858 PHARMACY MANAGEMENT 2
This unit extends the knowledge of pharmacy students in areas of accounting and finance, management, HR and health care policy in relation to the management of a pharmacy business.

**Prerequisites:** SCB758  
**Corequisites:** SCB808 and SCB868  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2
SCB868 PROFESSIONAL PLACEMENTS 2
This unit is designed to extend the students experiential skills in working in either a community or hospital pharmacy environment. The design and timetabling of the unit is similar to SCB768 Professional Placements 1, but the emphasis will focus on the dispensing and counselling and QUMs of further drug classes and the management skills will be aligned with SCB858 Pharmacy Management 2. These placements will consist of a five (5) week block consisting of four working days that will commence in the second half of the semester and assessment will consist of the assignments and submission of a experiential log book.

Prerequisites: SCB708 and SCB768  Corequisites: SBC808 and SCB858  Credit points: 12  Contact hours: 5 per week  Campus: Gardens Point  Teaching period: 2011 SEM-2