Bachelor of Pharmacy (SC45)

Year offered: 2010
Admissions: Yes
CRICOS code: 055902G
Course duration (full-time): 4 years
Domestic fees (indicative): 2010: CSP $2,470 (indicative) per semester
International Fees (indicative): 2010: $10,750 (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: 94 Not all applicants within the OP 4 Band were offered this course
Past OP cut-off: 4 Not all applicants within the OP 4 Band were offered this course
Assumed knowledge: English (4, SA), Maths B (4, SA) and Chemistry (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Associate Professor Fraser Ross
Campus: Gardens Point

Recommended Study
Biological Science is recommended.

Career Opportunities
Pharmacists are employed in a range of settings including community pharmacies, hospitals, industry, regulatory and research roles. Australia is currently experiencing a shortage of trained pharmacists, particularly in hospital and community pharmacies. You can expect your skills to be in demand as the QUT Bachelor of Pharmacy focuses on these aspects of the pharmacy profession. You will also be well prepared to undertake postgraduate studies in pharmacy related areas.

As the first professional contacted for advice about health, community pharmacists frequently play a major role as health educators. Hospital pharmacists may work closely with doctors in a patient-care role, evaluate newly released medicines, coordinate clinical trials, or prepare medicines for patients requiring specialised treatments.

OP Guarantee
The OP Guarantee does not apply to this course.

Course Design

The Bachelor of Pharmacy comprises four years of study in areas ranging from pharmacy practice, pharmaceutics, pharmacology, drug metabolism, physiology and chemistry. You will also undertake professional practice units in QUT's on-campus dispensary and counselling facilities before embarking on a series of professional placements in hospitals and community pharmacy environments.

Special Course Requirements
1. Hepatitis B Vaccination: Prior to undertaking hospital placements students must be vaccinated for hepatitis B and must provide a post-vaccination pathological report or similar certification showing proof of immunity.

2. Blue Card: A current Blue Card authorised with QUT may be required prior to commencing the clinical placement components in this course. Please read the Blue Card information (http://bluecard.qut.com) and ensure that you allow adequate time for processing your application and issuing of the card in order to avoid clinical experience delays.

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 (PSA), the Pharmacy Guild and the Society of Hospital Pharmacists of Australia (SHPA).

Why Choose this Course?
This course has been developed with significant input from pharmacists to incorporate latest practices and emerging trends. The inclusion of essential small business management skills will help you to operate effectively in your chosen setting.

Deferment
QUT allows current Year 12 school leavers to defer their undergraduate admission offer for one year, or for six months if offered mid-year admission, except in courses using specific admission requirements such as questionnaires, folios, auditions, prior study or work experience.

Non-year 12 students may also request to defer their QTAC offer on the basis of demonstrated special circumstances.

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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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 1

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

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

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
SCB868 Professional Placements 2

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

UNIT SYNOPSES

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: LSB328
Credit points: 12
Contact hours: 4 per week
Campus: Gardens Point
Teaching period: 2010 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
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 Assumed knowledge: Grade of at least Sound Achievement in Senior Mathematics B (or equivalent) or MAB105 is assumed knowledge.

Equivalents: MAB140 Credit points: 12 Contact hours: 4 per week Campus: Gardens Point Teaching period: 2010 SEM-1

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: 2010 SEM-1 and 2010 SEM-2

SCB112 CELLULAR BASIS OF LIFE

A study of life processes in all five groups of living organisms (bacteria, protists, fungi, plants and animals). Traditional topics in biology are integrated with recent research advances in molecular and cellular biology to provide a comprehensive foundation for later units in the medical, biotechnological and ecological sciences. The unit begins by constructing cells from the four quantitatively important groups of biological molecules (proteins, lipids, carbohydrates and nucleic acids). Molecular and evolutionary aspects of genetics are then introduced, with the great diversity of reproductive strategies found among organisms being emphasised. Finally, bioenergetics (photosynthesis and respiration) and its relevance to environmental issues is outlined.

Antirequisites: LSB118 Credit points: 12 Contact hours: 4 per week Campus: Gardens Point Teaching period: 2010 SEM-1 and 2010 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, thermochemistry, 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.

Prerequisites: SCB111, SCB121 Credit points: 12 Contact hours: 5 per week Campus: Gardens Point Teaching period: 2010 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 Antirequisites: LSB238 Credit points: 12 Contact hours: 4.5 per week Campus: Gardens Point Teaching period: 2010 SEM-2

SCB131 EXPERIMENTAL CHEMISTRY
A study of chemistry and related disciplines such as medical science, biochemistry, molecular biology and pharmacy requires the development of practical laboratory skills used in synthesis and chemical analysis. 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.

Prerequisites: SCB111 or SCB113 Corequisites: SCB121 unless SCB113 has been successfully completed Credit points: 12 Campus: Gardens Point Teaching period: 2010 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: 2010 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: 2010 SEM-1

SCB338 PHARMACEUTICAL CHEMISTRY AND PHARMACOLOGY 1
Pharmacists require a detailed understanding of the physicochemical 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.

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: 2010 SEM-1

SCB408 PHARMACY PRACTICE 2
This unit extends the students knowledge of pharmacy practice in the areas of dispensing and counselling of both OTC and scheduled drugs used in the treatment of cardiovascular, respiratory, renal and GI Tract complaints. Students will be introduced to concepts such as non-compliance of patients, problem identification and effective strategies to overcome these obstacles to health management through patient communication. Practical experience will be gained by the students via experimental placements in a community pharmacy environment. Additionally, this unit will extend the students mastery of the proper use of a wide range of advanced pharmaceutical calculations.

**Prerequisites:** SCB338  
**Corequisites:** SCB438  
**Assumed knowledge:** Students should enrol in SCB438 in the same semester unless previously completed  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-2

### SCB428 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:** 2010 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  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 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:** 2010 SEM-1

### SCB528 PHARMACEUTICS 1

A detailed knowledge of the physical properties of pharmaceutical formulations is an essential attribute for pharmacists as it facilitates the understanding of the behaviour of drugs following administration. The formulation of drugs has a large influence on all aspects as 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 introduces the student to the discipline of pharmaceutics and develops knowledge with respect to the physical behaviour of excipients and compounds, separate from the biologically active drug, that are used in the manufacture of pharmaceutical products.

**Prerequisites:** SCB428  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 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:** 2010 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:** 2010 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:** 2010 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.

**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 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 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.

**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-2  

**SCB708 PHARMACY PRACTICE 5**  
The pharmacy practice units in the 4th year of the B Pharm 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.

**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 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.

**Corequisites:** SCB708, SCB758, and SCB768  
**Assumed knowledge:** Students should enrol in SCB708, SCB758 and SCB768 in the same semester unless previously completed  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 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.

**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 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.

Credit points: 12  Contact hours: 5 per week  Campus: Gardens Point  Teaching period: 2010 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: SCB808 and SCB858  Credit points: 12  Contact hours: 5 per week  Campus: Gardens Point  Teaching period: 2010 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 SCB858  Credit points: 12  Contact hours: 5 per week

Campus: Gardens Point  Teaching period: 2010 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: 2010 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 considerations for the individual patient, drug-drug interactions and pharmacoconomics considerations.

Prerequisites: SCB648 and SCB748  Credit points: 12  Contact hours: 5 per week  Campus: Gardens Point  Teaching period: 2010 SEM-2