Bachelor of Exercise and Movement Science/Bachelor of Health Science (Nutrition and Dietetics) (HL22)

**Year offered:** 2010  
**Admissions:** Yes  
**CRICOS code:** 070081C  
**Course duration (full-time):** 5 years  
**Domestic fees (indicative):** 2010: CSP $2,950 (indicative) per semester  
**Domestic Entry:** February  
**International Entry:** February  
**Past rank cut-off:** 98  
**Past OP cut-off:** 2  
**Total credit points:** 516  
**Course coordinator:** Dr Ian Renshaw (Ex&MovementSc component); Ms Melinda Service (Nutrition and Dietetics component)  
(enrolment queries to email: enquirieshms@qut.edu.au or phone: 07 3138 4697)  
**Campus:** Kelvin Grove

**Overview**  
HL22 Bachelor of Exercise and Movement Science/ Bachelor of Health Science (Nutrition and Dietetics) will replace HL42 Bachelor of Applied Science (Human Movement Studies)/ Bachelor of Health Science (Nutrition and Dietetics) from 2010 for all commencing students.

The Bachelor of Exercise and Movement Science/ Bachelor of Health Science (Nutrition and Dietetics) double degree program will prepare you as a multi-skilled professional who meets current requirements for employment as a nutritionist/dietitian, and in a range of exercise and sports science professions. At present, the demand for sports nutritionists is growing rapidly and there is a growing field in the area of rehabilitation science for people with dual qualifications.

**Career outcomes**  
Graduates of this five-year program pursue a broad range of careers including those in corporate and community health, wellness and fitness, and sports performance, and/or in nutrition and dietetics. Graduates are especially qualified for work with clinical, sporting or occupational groups in which both nutrition and physical activity are prominent issues.

**Pathways**  
Graduates can apply for admission to the HM44 Bachelor of Clinical Exercise Physiology if they should wish to achieve full Exercise Physiologist status.

**Professional recognition**  
Graduates are eligible for membership of the Dietitians Association of Australia (DAA), and may enrol in the Accredited Practising Dietitian (APD) program.

**Further information**  
For information about this course, please call the School of Public Health on +61 7 3138 3368 or email sph.studentcentre@qut.edu.au, and/or School of Human Movement Studies on +61 7 3138 4697 or email enquirieshms@qut.edu.au

**Course structure**

<table>
<thead>
<tr>
<th>Year, Semester 1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LSB131</td>
<td>Anatomy</td>
</tr>
<tr>
<td>PUB251</td>
<td>Contemporary Public Health</td>
</tr>
<tr>
<td>PUB474</td>
<td>Food Science</td>
</tr>
<tr>
<td>SCB111</td>
<td>Chemistry 1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year, Semester 2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HMB276</td>
<td>Research in Human Movement</td>
</tr>
<tr>
<td>LQB488</td>
<td>Medical Physiology 2</td>
</tr>
<tr>
<td>PUB201</td>
<td>Food and Nutrition</td>
</tr>
<tr>
<td>SCB121</td>
<td>Chemistry 2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year, Semester 1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HMB271</td>
<td>Foundations of Motor Control, Learning and Development</td>
</tr>
<tr>
<td>HMB274</td>
<td>Functional Anatomy</td>
</tr>
<tr>
<td>LQB381</td>
<td>Biochemistry: Structure and Function</td>
</tr>
<tr>
<td>LQB388</td>
<td>Medical Physiology 1</td>
</tr>
<tr>
<td>PUB530</td>
<td>Health Education and Behaviour Change</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year, Semester 2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HMB272</td>
<td>Biomechanics</td>
</tr>
<tr>
<td>HMB273</td>
<td>Exercise Physiology 1</td>
</tr>
<tr>
<td>LQB481</td>
<td>Biochemical Pathways and Metabolism</td>
</tr>
<tr>
<td>PYB208</td>
<td>Counselling Theory and Practice 1</td>
</tr>
<tr>
<td>PUB405</td>
<td>Nutrition Science</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year, Semester 1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HMB277</td>
<td>Exercise and Sport Nutrition</td>
</tr>
<tr>
<td>HMB382</td>
<td>Principles of Exercise Prescription</td>
</tr>
<tr>
<td>PUB326</td>
<td>Epidemiology</td>
</tr>
</tbody>
</table>

Published on: 16 May 2011  
Page 1/7
PUB541 Medical Nutrition Therapy 1

Year 3, Semester 2
HMB275 Exercise and Sport Psychology
HMB282 Resistance Training
PUB436 Evidence Based Practice
PUB628 Advanced Food Studies
PUB641 Medical Nutrition Therapy 2

Year 4, Semester 1
HMB373 Cardiorespiratory and Metabolic Disorders
HMB470 Practicum 1
PUB509 Community and Public Health Nutrition
Elective Exercise and Movement Science (List A)

Year 4, Semester 2
HMB378 Neurological, Psychological and Musculoskeletal Disorders
HMB481 Clinical Exercise for Cardiorespiratory and Metabolic Disorders
PUB506 Foodservice Management
PUB645 Introduction To Dietetic Practice

Year 5, Semester 1
PUB723 Clinical Dietetic Practice
PUB821 Practice in Community Nutrition
PUB822 Practice in Foodservice Management

Year 5, Semester 2
HMB476 Practicum 2A
PUB606 Dietetic Management

List A - Exercise and Movement Science Electives

List A - Exercise and Movement Science Electives
HMB361 Functional Anatomy 2
HMB362 Biomechanics 2
HMB371 Motor Control And Learning 2
HMB381 Exercise Physiology 2

Potential Careers:
Community Dietician, Community Education Officer, Community Health Officer, Community Nutritionist, Community Worker, Dietitian, Director of Health Programs and Services, Health Educator, Health Policy Officer, Health Promotion Officer, Health Services Manager, Policy Officer, Public Health Officer, Public Health Program Manager, Sports Scientist.

UNIT SYNOPTES

HMB271 FOUNDATIONS OF MOTOR CONTROL, LEARNING AND DEVELOPMENT
This unit introduces students to the behavioural and neural bases of movement control through an examination of the central nervous and neuromuscular systems, hierarchical control, human information processing and dynamical systems. It covers elements of sensory mechanisms related to movement. Foundations of motor learning and adaptation are introduced, linking underlying mechanisms of learning with principles that may be applied in teaching, coaching and rehabilitation.

Prerequisites: LSB131 or LSB231 or LSB255 Credit points: 12 Contact hours: 4 per week Campus: Kelvin Grove Teaching period: 2010 SEM-1

HMB272 BIOMECHANICS
This unit includes the application of mechanics as they apply to Human Movement including: kinematics and dynamics of human body models; quantitative analysis; impact; work and power; fluid dynamics; material properties.
Prerequisites: LSB131 Credit points: 12 Contact hours: 4 per week Campus: Kelvin Grove Teaching period: 2010 SEM-2

HMB273 EXERCISE PHYSIOLOGY 1
This unit describes the immediate physiological responses to exercise, and the adaptations that occur with long-term exercise training. Exercise places a demand on the human body to provide sufficient energy to perform. The metabolic, hormonal, cardiovascular and pulmonary systems must adapt to meet the challenge of homeostasis. The active skeletal muscle must increase extraction and utilisation of oxygen and other fuels, the cardiovascular system must respond to improved gas and fuel transport, and lung function must change to facilitate increased respiratory gas exchange.
NOTE for Summer Semester students: Teaching will not commence until January 2010, but some unit information will be available from 16 November 2009.

Students wishing to enrol up to the beginning of January will need to email enquirieshms@qut.edu.au
Prerequisites: LSB231 or LSB142 Credit points: 12 Contact hours: 4 per week Campus: Kelvin Grove Teaching period: 2010 SUM-2, 2010 SEM-2 and 2010

Published on : 16 May 2011
Page 2/7
SUM-1

HMB274 FUNCTIONAL ANATOMY
This unit includes the following: surface anatomy of the trunk and upper and lower limb; morphological and mechanical properties of bone, muscle-tendon units with implications for physical activity; joint structure and function; analyses of movement tasks including walking and running; cinematography and electromyography in functional anatomy of movement tasks.
Prerequisites: LSB131 or LSB255  Credit points: 12
Contact hours: 3 per week  Campus: Kelvin Grove  Teaching period: 2010 SEM-1

HMB275 EXERCISE AND SPORT PSYCHOLOGY
This unit includes the following: introduction to the psychological factors which influence performance, participation and adherence to both sport and exercise programs; personality and the athlete; attention and arousal; relaxation theory and practice; aggression and psycho-social development; leadership and team cohesion.
Prerequisites: PYB100 or PYB012 or EDB002  Credit points: 12
Contact hours: 3 per week  Campus: Kelvin Grove  Teaching period: 2010 SEM-2

HMB276 RESEARCH IN HUMAN MOVEMENT
This unit includes principles of research: purposes, philosophy, applications. It addresses quantitative research including basic statistics, descriptives, ANOVA, correlation, regression and non-parametrics, and basic research design hypothesis testing. Qualitative research includes methodology, data collection, and theory building. Research presentation includes: writing a research report and developing conclusions. This unit also considers application of research, examples in human movement, related literature, computer data analysis, and information retrieval.
Credit points: 12  Contact hours: 3 per week  Campus: Kelvin Grove  Teaching period: 2010 SEM-2

HMB277 EXERCISE AND SPORT NUTRITION
This unit considers the relationship between nutrition and exercise and physical activity. Areas covered include dietary and energy requirements in exercise and sport and substrate utilisation at the cellular level during exercise. The influence that nutrition has on performance via changes in body composition, fuel utilisation, blood biochemistry and ergogenic aids will also be covered. Nutritional supplements and water and electrolyte balance in exercise and sport are also part of this unit.
Prerequisites: HMB172 or PUB201  Credit points: 12
Contact hours: 3 per week  Campus: Kelvin Grove  Teaching period: 2010 SEM-1

HMB282 RESISTANCE TRAINING
This unit aims to equip students with the basic knowledge, skills and competencies required for exercise prescription in resistance training for muscular fitness. Students build on prior knowledge of biomechanics, anatomy, physiology and motor control to develop understanding of the mechanical and physiological determinants of muscular fitness. The unit incorporates a blend of theoretical background, practical knowledge and skills in the main areas of muscular hypertrophy, strength, power and endurance. This understanding is then used to critically analyse resistance training programs.
Prerequisites: LSB131  Credit points: 12  Campus: Kelvin Grove  Teaching period: 2010 SEM-2

HMB361 FUNCTIONAL ANATOMY 2
This is a project-based unit designed to enable students with a background in functional anatomy to develop greater expertise in one or a combination of the following areas: electromyography; orthopaedic biomechanics; kinesiology of sport and work; comparative functional anatomy; locomotion and posture; research techniques in functional anatomy.
Prerequisites: HMB274  Credit points: 12  Contact hours: 4 per week  Campus: Kelvin Grove  Teaching period: 2010 SEM-2

HMB362 BIOMECHANICS 2
This unit includes the following: measurement techniques within biomechanics; analysis of force systems; photographic, goniometric and electrogalvanic analysis of movement; an introduction to viscoelasticity and biological materials; material properties; mass and inertial characteristics of the human body; applied aspects of biomechanics undertaken from a research project perspective.
Prerequisites: HMB272 and HMB274  Credit points: 12
Contact hours: 4 per week  Campus: Kelvin Grove  Teaching period: 2010 SEM-1

HMB371 MOTOR CONTROL AND LEARNING 2
This is an advanced unit which provides an in-depth view of theories and concepts in motor learning and control; how we control actions in both everyday and skilled behaviours, and how this capability is acquired. This course provides a multidisciplinary perspective, drawing on research from psychology, neuroscience, biomechanics, robotics, neural networks and medicine. The unit is organised around the theme of sensorimotor integration as related to posture and balance, locomotion and arm movements such as reaching, grasping and pointing.
Prerequisites: HMB271  Credit points: 12  Contact hours: 4 per week  Campus: Kelvin Grove  Teaching period: 2010 SEM-2
HMB381 EXERCISE PHYSIOLOGY 2
This unit examines the integrated regulation of the organ system examined in Exercise Physiology 1. Within this integrated perspective current research areas will be highlighted, including but not limited to (1) exercise performance and environmental stress, (2) special aids to exercise training and performance, and (3) limitations to exercise in healthy normal individuals, elite athletes and selected patient populations.
Prerequisites: HMB273  Credit points: 12  Contact hours: 3-4 per week  Campus: Kelvin Grove  Teaching period: 2010 SEM-1

HMB382 PRINCIPLES OF EXERCISE PRESCRIPTION
In this unit, students examine the physiological principles and methods used in training and conditioning programs at all levels of physical activity. The integration of fitness assessment and exercise prescription is a major component of the unit, introducing the student to these requirements in the context of aerobic conditioning, resistance training, weight loss and flexibility. There is a strong emphasis on putting theory into practice, including the development and utilisation of appropriate practical skills in both fitness assessment and exercise prescription.
Prerequisites: HMB273 and HMB282  Credit points: 12  Contact hours: 4 per week  Campus: Kelvin Grove  Teaching period: 2010 SEM-1

HMB470 PRACTICUM 1
In the first of the Human Movement dedicated practicum units, students undertake in-depth experience at two different workplaces (40 hours each) while maintaining ongoing involvement in the School's clinics (20 hours). The student is provided with an extended opportunity to apply classroom learned knowledge and skills under the supervision of Human Movement Practitioners. Workplace involvement is preceded by a vocational skill seminar and workshop program while an interactive analysis program is instigated post practicum.
Prerequisites: HMB382  Credit points: 12  Campus: Kelvin Grove  Teaching period: 2010 SEM-1 and 2010 SEM-2

LQB381 BIOCHEMISTRY: STRUCTURE AND FUNCTION
This unit extends basic organic chemistry theory to the level of the biological macromolecules. A clear understanding of the structure and function of these molecules is essential to a student's understanding of the metabolism of living cells. Hence this biomolecular unit is a fundamental prerequisite for all advanced units in the various disciplines in the field of life sciences.
Prerequisites: (SCB121 and SCB122) or (SCB111 and SCB121) or SCB113  Antirequisites: LSB275 and LSB325 and LSB308  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 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: SCB120, LSB131, LSB142, LSB255, LSB258 or NRB270  Antirequisites: LSB358  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2010 SEM-2

LQB481 BIOCHEMICAL PATHWAYS AND METABOLISM
The study of biochemistry and cell biology, along with molecular biology, provides students with the knowledge required for the proper understanding of the structure and function of living organisms at the molecular level. As such, this unit extends the studies begun in the unit LQB381 Biochemistry into the metabolic processes occurring in living cells, and provides students with a basis for further studies in biochemistry as well as support for other units in the third year of the course.
Prerequisites: LQB381 or LSB308  Antirequisites: LSB275, LSB325, LSB408  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2010 SEM-2

LQB488 MEDICAL PHYSIOLOGY 2
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 having been dealt with in the first semester unit Physiology 1 [LQB388]). 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 1 [LQB388] this unit is a prerequisite to the third level units, Applied Physiology [LQB588] and will be of particular interest to students considering medicine as a postgraduate career option.
Prerequisites: LSB131, LSB142, LSB255, LSB258, NRB270, or SCB120  Corequisites: LSB658  Antirequisites: LSB458  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2010 SEM-2
Nutrition science examines a range of nutrient components in our food supply, including the biochemical pathways and physiological effects in the body, possible health implications of deficiency or toxicity and important dietary sources. It integrates nutritional knowledge with the science of biochemistry and clinical physiology and provides the foundation on which further studies in nutrition can be built.

**Antirequisites:** (LSB308 or LQB381) and PUB201 and (LQB481 or LSB408). (LQB481 or LSB408) can be enrolled in the same teaching period. **Credit points:** 12  **Contact hours:** 4 per week  **Campus:** Kelvin Grove  **Teaching period:** 2010 SEM-2

**PUB474 FOOD SCIENCE**

To fulfill their needs as future professionals working in food and nutrition related areas, students explore the nature of foods and their constituents, studying the underlying scientific principles related to the manufacture, preservation, distribution and the final production of food items for consumption. This unit is available ONLY in courses where it is listed as a core unit.

**Prerequisites:** PUB201  **Credit points:** 12  **Contact hours:** 5 per week  **Campus:** Kelvin Grove  **Teaching period:** 2010 SEM-1

**PUB506 FOODSERVICE MANAGEMENT**

This unit includes the following: organisation and planning in foodservice; the hospital environment; the menu and menu planning; purchasing and storage of food; kitchen planning and design; food production systems; food distribution systems; human resource management in foodservice; finance and costing; hygiene; maintenance and safety; information systems; and total quality management.

**Prerequisites:** PUB474  **Credit points:** 12  **Contact hours:** 3 per week  **Campus:** Kelvin Grove  **Teaching period:** 2010 SEM-2

**PUB509 COMMUNITY AND PUBLIC HEALTH NUTRITION**

This unit includes the following: the measurement of the nutritional status of a community; nutrition monitoring and surveillance; food and nutrition policy at international, national and state levels; international nutrition issues; nutritional epidemiology; examination of the evidence of nutrition problems within Australia; at risk groups; tools and their validity for measuring nutritional status and nutrition outcome at the population and group level; and dietary intake methodology.

**Prerequisites:** PUB201  **Credit points:** 12  **Contact hours:** 4 per week  **Campus:** Kelvin Grove  **Teaching period:** 2010 SEM-1
PUB530 HEALTH EDUCATION AND BEHAVIOUR CHANGE
Antirequisites: PUB329, PUB341  Credit points: 12  Teaching period: 2010 SEM-1

PUB541 MEDICAL NUTRITION THERAPY 1
This unit incorporates the best of a multidisciplinary, 'whole client' view of health care. The goals of MNT in preventative care are to keep people healthy in their communities, to reduce the incidence and severity of preventable diseases, to improve health and quality of life and to reduce medical costs particularly in drug therapy, surgery, hospitalisation and extended care. A sound understanding of the process of nutrition assessment enables students to undertake the assessment, planning, implementation and evaluation of dietary intervention in the more complex disease states.  
Prerequisites: PUB405 and LQB481, or LSB408 and LQB488 or LSB485  Credit points: 12  Contact hours: 5 per week  Campus: Kelvin Grove  Teaching period: 2010 SEM-1

PUB606 DIETETIC MANAGEMENT
This unit includes the following: history of dietetics and the role of management in dietetics; planning and organisation; leadership; peer review systems; total quality management; clinical costing; program evaluation and measuring effectiveness; information systems applied to dietetic management; managing change; casemix funding; management tools; marketing; planning community based programs; team building; and managing role conflict.  
Prerequisites: PUB506  Credit points: 12  Contact hours: 3 per week  Campus: Kelvin Grove  Teaching period: 2010 SEM-2

PUB628 ADVANCED FOOD STUDIES
This unit provides students with an opportunity to acquire practical skills in the planning, preparation and delivery of nutrient altered foods suitable for a wide range of therapeutic diets. Students evaluate the outcome of incorporating nutrient modified food products into dietary regimens. Food standards, relevant developments and issues are also considered.  
Prerequisites: PUB474 and (PUB648 or PUB541) and PUB641. PUB641 can be enrolled in the same teaching period.  Credit points: 12  Contact hours: 6 per week  Campus: Kelvin Grove  Teaching period: 2010 SEM-2

PUB641 MEDICAL NUTRITION THERAPY 2
This unit builds on the extensive knowledge base of the theory and application of dietary treatment to disease and the principles of nutritional assessment development in Medical Nutrition Therapy 1.  
Prerequisites: (PUB541 or PUB648) and PUB628. PUB628 can be enrolled in the same teaching period.  
Credit points: 12  Contact hours: 5 per week  Campus: Kelvin Grove  Teaching period: 2010 SEM-2

PUB645 INTRODUCTION TO DIETETIC PRACTICE
Prerequisites: PUB628 and PUB641 (can be enrolled in the same teaching period)  Antirequisites: PUB875  Assumed knowledge: Completion of all prior core units in your course is assumed knowledge.  Credit points: 12  Teaching period: 2010 SEM-2

PUB723 CLINICAL DIETETIC PRACTICE
Students are required to develop skills in the management of nutritional care of clients in the clinical setting, to a standard that allows entry to the Dietetics profession. This unit incorporates the basic strategies of the dietetic care process, such as assessment, planning, implementation and evaluation of nutritional care, for clients who have a variety of disease states. Students also need to demonstrate basic skills in research in relation to clinical outcome.  
Prerequisites: PUB645 and PUB641  Credit points: 24  Campus: Kelvin Grove  Teaching period: 2010 SEM-1 and 2010 SEM-2

PUB821 PRACTICE IN COMMUNITY NUTRITION
Prerequisites: PUB645 and PUB509  Antirequisites: PUB821-1, PUB821-2  Credit points: 12  Teaching period: 2010 SEM-1 and 2010 SEM-2

PUB822 PRACTICE IN FOODSERVICE MANAGEMENT
Prerequisites: PUB645 and PUB506  Antirequisites: PUB822-1, PUB822-2  Credit points: 12  Teaching period: 2010 SEM-1 and 2010 SEM-2

PYB208 COUNSELLING THEORY AND PRACTICE 1
This unit develops the student's knowledge of the counselling process and skills and provides practice in changing the ways in which people express, conceptualise and respond to their concerns. It builds upon the communication skills and concepts introduced in PYB007 and introduces a range of counselling approaches. It emphasises skills in solution oriented approaches but also covers a range of models and skills for workers in crisis situations. It provides a basis for further studies in counselling in clinical settings requiring psychotherapeutic intervention, and other modes of delivery such as couple, family or group work.  
Prerequisites: PYB007 or PYB074 or HHB113 or SWB104 or PYB111 or PUB209  Credit points: 12  Contact hours: 3 per week  Campus: Kelvin Grove  Teaching period: 2010 SEM-2

SCB111 CHEMISTRY 1
This unit covers the fundamentals of general and physical chemistry. Topics include atomic and molecular structure,
introduction to chemical bonding, reaction stoichiometry, thermochemistry, gas phase chemistry, reaction kinetics, equilibrium, acids, bases, buffers, oxidation, reduction and electrochemistry. The practical program involves experiments illustrating a range of chemical reaction types including precipitation reactions, acid-base chemistry and redox chemistry using analytical experimental methods. A comprehensive tutorial program (CHELP) complements the lectures and is designed to assist students to develop the problem solving skills required for further study in chemistry and related sciences.

**Antirequisites:** SCB113  
**Credit points:** 12  
**Contact hours:** 4.5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-1 and 2010 SEM-2

### SCB121 CHEMISTRY 2

Chemistry is the central science. This is a unit of fundamental importance as it covers the background and general principles that underpin understanding in many Science and Health related disciplines, particularly in regards to the chemistry of life. In this unit students will be introduced to fundamental aspects of chemistry including the electronic structure of atoms, chemical bonding and molecular structure. From this basis students will develop an understanding of the fundamentals of organic chemistry including chirality, functional groups and organic reactions which will lead to important bio-inorganic molecules and coordination complexes.

**Prerequisites:** (SCB111 or PCB142) . SCB111 can be studied in the same teaching period  
**Antirequisites:** SCB113  
**Credit points:** 12  
**Contact hours:** 4.5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-1 and 2010 SEM-2