Bachelor of Health Science (Nutrition and Dietetics) (PU43)

Year offered: 2010
Admissions: Yes
CRICOS code: 022143C
Course duration (full-time): 4 Years
Domestic fees (indicative): 2010: CSP $2,800 (indicative) per semester
International Fees (indicative): 2010: $11,000 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 425442
Past cut-off: 98
Past OP cut-off: 2
Assumed knowledge: English (4, SA), Maths B (4, SA), and Chemistry (4, SA)
Preparatory studies: For information on acquiring assumed knowledge visit http://www.studentservices.qut.edu.au/apply/ug/info/knowledge.jsp
Total credit points: 384
Standard credit points per full-time semester: 48
Course coordinator: Mrs Melinda Service
Discipline coordinator: Ms Danielle Gallegos
Campus: Kelvin Grove

Why choose this course?
The study of dietetics deals with the science of food and nutrients and their role in human health and disease. Dietitians apply this knowledge, along with an understanding of the social and psychological factors influencing eating habits, to help individuals, groups and communities choose food to help them attain and maintain good health.

Overview
This course will enable you to become a credentialled dietitian. The study of nutrition and dietetics involves the promotion of health, as well as the prevention and treatment of diet-related disease. It is strongly grounded in a study of scientific principles and research methods, which are then applied to influence the wider environment affecting food supply, policy and eating behaviours.

Why choose this course?
This course gives graduates an understanding of human physiology and biochemistry, public health principles and policies, health promotion principles, public health nutrition, food service and health service management, medical nutrition therapy and practice in individual case management, community nutrition and food service management. Students will be expected to undertake practical placements outside the university in hospitals, community health centres, private industry and food service institutions. These working environments are sometimes available outside the semester times and places are limited by availability of placement sites and supervisors, thus places for the course are competitive.

This course can lead on to study or research at the postgraduate level in nutrition and dietetics, health service management, environmental health, public health nutrition and public health generally.

Career Options
Graduates have excellent rates of employment with a range of opportunities available. They can provide medical nutrition therapy to clients to assist in their medical management of disease and illness in hospitals, nursing homes, community health centres and private practice. They can be food service consultants to food industries, hospitals, nursing homes and institutional catering services. They can also become community or public health nutritionists in government and non-government organisations, or researchers in their chosen area of practice.

As a health qualification, the Bachelor of Health Science (Nutrition and Dietetics) also allows entry to other health-related and graduate positions.

Professional Recognition
Graduates of this four year full-time program will be professional dietitians, eligible to apply for the Accredited Practising Dietitian (APD) credential as well as membership of the Dietitians Association of Australia (DAA), the Public Health Association of Australia (PHAA), Sports Medicine Australia (SMA), the Nutrition Society and other bodies.

Electives
Elective studies are available in health promotion, counselling, clinical science, exercise science, research methods and projects.

Other course requirements
additional costs Students who are required to undertake placements off campus may incur additional costs (for example travel and accommodation). Hepatitis B vaccination and Blue Card clearance are required before placement in Queensland Health and Education facilities.

blue card As required by the Commission for Children and Young People and Child Guardian Act (2000), students must undergo a criminal history check and be issued with a Blue Card before commencing clinical practice/field experience/practicum in an organisation where they may work with children or young people. For more information,
Honours
A degree with honours may be awarded to students who have recorded outstanding achievement in the four-year program.

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

Course structure
Year 1
You will begin to develop a theoretical knowledge base in chemistry, anatomy, food science, principles of food and nutrition and be introduced to contemporary health services and public health issues which will be relevant to you in your future careers in the health sector. Tutorials, workshops and a range of resources and activities will also facilitate the development of practical skills.

Year 2
Building on the foundational studies from your first year, you will develop a more consolidated and in-depth knowledge of biochemistry, physiology and nutritional science. You will also be introduced to epidemiology and evidence based practice.

Year 3
You will now apply and contextualise knowledge and skills gained in the first 2 years, in units focussed on potential future areas of dietetic practice, such as medical nutrition therapy, food service management and public health nutrition. Combined with health promotion, nutrition education principles and quantitative analysis for health, these units further develop important skills in researching, critical analysis and practical application. This practice will be consolidated in advanced food studies and introduction to dietetic practice.

Year 4
This year predominantly involves practice based placements which allow you to work with and assist qualified practitioners in real world settings. You will demonstrate competency by managing individual cases in hospitals and undertaking food service management and community nutrition projects in varied settings such as hospitals, community health centres, schools or business organisations throughout Queensland. Advanced dietetic management and research skills will also be applied in final year projects.

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.

Further Information
For more information about this course, please call the School of Public Health Student Centre on +61 7 3138 3368 or email sph.studentcentre@qut.edu.au

Full-Time Course Structure from 2008 onwards

Year 1, Semester 1
SCB111 Chemistry 1
PUB104 Australian Health Care Systems
PUB251 Contemporary Public Health
LSB142 Human Anatomy and Physiology

Year 1, Semester 2
LQB488 Medical Physiology 2
PUB201 Food and Nutrition
SCB121 Chemistry 2
PUB209 Health, Culture and Society

Year 2, Semester 1
LQB381 Biochemistry: Structure and Function
LQB388 Medical Physiology 1
PUB326 Epidemiology
PUB474 Food Science

Year 2, Semester 2
LQB481 Biochemical Pathways and Metabolism
PYB208 Counselling Theory and Practice 1
PUB405 Nutrition Science
PUB436 Evidence Based Practice

Year 3, Semester 1
PUB530 Health Education and Behaviour Change
PUB509 Community and Public Health Nutrition
PUB541 Medical Nutrition Therapy 1
PUB561 Statistical Methods in Health

Year 3, Semester 2
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PUB506</td>
<td>Foodservice Management</td>
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<tr>
<td>PUB628</td>
<td>Advanced Food Studies</td>
</tr>
<tr>
<td>PUB641</td>
<td>Medical Nutrition Therapy 2</td>
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<tr>
<td>PUB645</td>
<td>Introduction To Dietetic Practice</td>
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**Year 4, Semester 1 - Research Stream (GPA>5)**

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>PUB723</td>
<td>Clinical Dietetic Practice</td>
</tr>
<tr>
<td>PUB416</td>
<td>Advanced Research Methods</td>
</tr>
<tr>
<td>PUB821</td>
<td>Practice in Community Nutrition OR</td>
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<tr>
<td>PUB822</td>
<td>Practice in Foodservice Management</td>
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**Year 4, Semester 2 - Research Stream**

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>PUB606</td>
<td>Dietetic Management</td>
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<tr>
<td>PUB720</td>
<td>Nutrition and Dietetic Project</td>
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<tr>
<td>PUB821</td>
<td>Practice in Community Nutrition OR</td>
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<td>PUB822</td>
<td>Practice in Foodservice Management</td>
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**Year 4, Semester 1 - Non Research Stream**

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<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>PUB514</td>
<td>Contract/Project Management</td>
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<tr>
<td>Choose 24 credit points from:</td>
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<tr>
<td>PUB723</td>
<td>Clinical Dietetic Practice (Note: this is a 24 credit point unit)</td>
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<tr>
<td>PUB821</td>
<td>Practice in Community Nutrition OR</td>
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<td>Practice in Foodservice Management</td>
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**Year 4, Semester 2 - Non Research Stream**

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<tbody>
<tr>
<td>PUB606</td>
<td>Dietetic Management</td>
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<tr>
<td>Choose 36 credit points from:</td>
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<tr>
<td>PUB723</td>
<td>Clinical Dietetic Practice</td>
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<tr>
<td>PUB821</td>
<td>Practice in Community Nutrition OR</td>
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<td>PUB822</td>
<td>Practice in Foodservice Management</td>
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**Note:** Students complete 2 electives. One is completed in Semester 1, & the second in either semester.

**Elective List for the Non-Research Stream**

Students undertaking the Non-Research Stream are required to select two elective units from below. The elective unit is subject to prerequisite requirements, credit points and availability of the unit. With the approval of the Subject Area Coordinator or the Course Coordinator other electives may be selected.

**Clinical Science**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>LSB658</td>
<td>Clinical Physiology</td>
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<tr>
<td>LSB365</td>
<td>Pathology</td>
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<tr>
<td>LSB438</td>
<td>Immunology 1</td>
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<tr>
<td>LSB508</td>
<td>Advanced Metabolism</td>
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<tr>
<td>PUB632</td>
<td>Independent Study</td>
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**Dietetic Management**

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<tr>
<td>PUB480</td>
<td>Health Administration Finance</td>
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<tr>
<td>PUB490</td>
<td>Quality Management in Health</td>
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<tr>
<td>PUB545</td>
<td>Health Policy, Planning and Advocacy</td>
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**Exercise**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>HMB273</td>
<td>Exercise Physiology 1</td>
</tr>
<tr>
<td>HMB274</td>
<td>Functional Anatomy</td>
</tr>
<tr>
<td>HMB277</td>
<td>Exercise and Sport Nutrition</td>
</tr>
<tr>
<td>HMB379</td>
<td>Disorders of Human Movement</td>
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<tr>
<td>HMB381</td>
<td>Exercise Physiology 2</td>
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**Health Management**

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<td>Health Administration Finance</td>
</tr>
<tr>
<td>PUB545</td>
<td>Health Policy, Planning and Advocacy</td>
</tr>
<tr>
<td>PUB514</td>
<td>Contract/Project Management</td>
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<tr>
<td>PUB609</td>
<td>Health Resource Allocation</td>
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<tr>
<td>PUB611</td>
<td>Risk Management</td>
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**Health Promotion**

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<tbody>
<tr>
<td>PUB336</td>
<td>Women's Health</td>
</tr>
<tr>
<td>PUB406</td>
<td>Health Promotion Practice</td>
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<tr>
<td>PUB545</td>
<td>Health Policy, Planning and Advocacy</td>
</tr>
<tr>
<td>PUB557</td>
<td>Health Needs of Indigenous Australians and Other Populations</td>
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<tr>
<td>PUB565</td>
<td>International Health</td>
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<tr>
<td>PUB644</td>
<td>Health Promoting Schools</td>
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**Private Practice**

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<th>Course Code</th>
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<tr>
<td>MGB223</td>
<td>Entrepreneurship and Innovation</td>
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**Public Health**

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<tbody>
<tr>
<td>PUB406</td>
<td>Health Promotion Practice</td>
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<tr>
<td>PUB436</td>
<td>Evidence Based Practice</td>
</tr>
<tr>
<td>PUB545</td>
<td>Health Policy, Planning and Advocacy</td>
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</tbody>
</table>
HMB333  Child and Adolescent Health
Research
PUB436  Evidence Based Practice
PUB416  Advanced Research Methods
PUB461  Qualitative Inquiry in Public Health
PUB632  Independent Study

Full-Time Course Structure for students who commenced prior to 2008

Year 1, Semester 1
SCB111  Chemistry 1
PUB104  Australian Health Care Systems
PUB251  Contemporary Public Health
LSB142  Human Anatomy and Physiology

Year 1, Semester 2
LSB255  Human Anatomy
SCB121  Chemistry 2
PUB201  Food and Nutrition
PYB012  Psychology

Year 2, Semester 1
LSB308  Biochemistry
LSB358  Physiology 1
PUB326  Epidemiology
PUB474  Food Science

Year 2, Semester 2
LSB408  Metabolism
LSB458  Physiology 2
PUB405  Nutrition Science
HMB273  Exercise Physiology 1
OR
LSB658  Clinical Physiology

Year 3, Semester 1
PUB506  Foodservice Management
PUB509  Community and Public Health Nutrition
PUB541  Medical Nutrition Therapy 1
PUB561  Statistical Methods in Health

Year 3, Semester 2
PYB208  Counselling Theory and Practice 1
PUB628  Advanced Food Studies
PUB641  Medical Nutrition Therapy 2
PUB645  Introduction To Dietetic Practice

Year 4, Semester 1- Research Stream (GPA>5)
PUB723  Clinical Dietetic Practice
PUB416  Advanced Research Methods
PUB821  Practice in Community Nutrition
OR
PUB822  Practice in Foodservice Management

Year 4, Semester 2- Research Stream
PUB606  Dietetic Management
PUB720  Nutrition and Dietetic Project
PUB821  Practice in Community Nutrition
OR
PUB822  Practice in Foodservice Management

Year 4, Semester 1- Non Research Stream
Elective
PUB514  Contract/Project Management
Choose 24 credit points from:
PUB723  Clinical Dietetic Practice
PUB821  Practice in Community Nutrition
PUB822  Practice in Foodservice Management
Elective

Year 4, Semester 2- Non Research Stream
PUB606  Dietetic Management
Choose 36 credit points from:
PUB723  Clinical Dietetic Practice
PUB821  Practice in Community Nutrition
PUB822  Practice in Foodservice Management
Elective

Note- one elective is undertaken in Semester 1 & the second elective can be taken in either semester

Elective List for the Non-Research Stream

Students undertaking the Non-Research Stream are required to select two elective units from below. The elective unit is subject to prerequisite requirements, credit points and availability of the unit. With the approval of the Subject Area Coordinator or the Course Coordinator other electives may be selected.
Clinical Science
LSB658 Clinical Physiology
LSB365 Pathology
LSB438 Immunology 1
LSB508 Advanced Metabolism
PUB632 Independent Study

Dietetic Management
PUB480 Health Administration Finance
PUB490 Quality Management in Health
PUB545 Health Policy, Planning and Advocacy

Exercise
HMB273 Exercise Physiology 1
HMB274 Functional Anatomy
HMB277 Exercise and Sport Nutrition
HMB379 Disorders of Human Movement
HMB381 Exercise Physiology 2

Health Management
PUB480 Health Administration Finance
PUB545 Health Policy, Planning and Advocacy
PUB514 Contract/Project Management
PUB609 Health Resource Allocation
PUB611 Risk Management

Health Promotion
PUB332 Sustainable Environments For Health
PUB336 Women's Health
PUB406 Health Promotion Practice
PUB545 Health Policy, Planning and Advocacy
PUB514 Contract/Project Management
PUB557 Health Needs of Indigenous Australians and Other Populations
PUB565 International Health
PUB644 Health Promoting Schools

Private Practice
MGB223 Entrepreneurship and Innovation

Public Health
PUB406 Health Promotion Practice
PUB436 Evidence Based Practice
PUB545 Health Policy, Planning and Advocacy
HMB333 Child and Adolescent Health

Research
PUB436 Evidence Based Practice
PUB461 Qualitative Inquiry in Public Health
PUB632 Independent Study

For information on prerequisites/corequisites visit:
www.hlth.qut.edu.au/study/orcurrregularstuents/

Potential Careers:
Community Dietician, Community Nutritionist, Dietitian,
Health Promotion Officer, Nutritionist, Nutritionist/Dietitian,
Policy Officer, Project Developer, Public Health Officer.

UNIT SYNOPSES

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
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
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: LSB231 or LSB142  Credit points: 12
Contact hours: 4 per week  Campus: Kelvin Grove
Teaching period: 2010 SUM-2, 2010 SEM-2 and 2010
SUM-1
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: HMB272 or PUB201 Credit points: 12 Contact hours: 3 per week Campus: Kelvin Grove Teaching period: 2010 SEM-1

HMB333 CHILD AND ADOLESCENT HEALTH
This unit focuses on the wide range of factors that impact on the health of individuals in the two crucial stages of life: childhood and adolescence. An analysis is made of knowledge, beliefs and skills required for promoting health-enhancing behaviours during these ages and experience is provided on some of the skills needed to assess and maintain the health status of children and adolescents.
Credit points: 12 Contact hours: 3 per week Campus: Kelvin Grove Teaching period: 2010 SEM-2

HMB379 DISORDERS OF HUMAN MOVEMENT
This unit introduces a selection of disorders and disease states that limit or alter the capacity for movement and physical activity. Each is described in terms of relevant epidemiology and pathophysiology, emphasising the relationship between each disorder and movement or activity, together with factors affecting this relationship. The unit provides students with a basic knowledge of a selection of movement-related disorders, as a foundation for subsequent applications, whether in research, working with special populations, in rehabilitation, or in other clinical settings. The unit also enhances the ability of students to independently study disorders not covered in the unit.
Prerequisites: HMB271 Credit points: 12 Contact hours: 4 per week Campus: Kelvin Grove Teaching period: 2010 SEM-1

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

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-1

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

**LSB142 HUMAN ANATOMY AND PHYSIOLOGY**  
The aim of this unit is to provide grounding in the principles of human anatomy and physiology. Following an introduction to the structure of the cell and the organisation of tissues, each of the major systems that constitute the human body are examined by the integrated study of their anatomy and physiology.  

**Antirequisites:** LSB131, LSB182, LSB258  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-2

**LSB255 HUMAN ANATOMY**  
The medically oriented biological scientist requires a detailed understanding and knowledge of human anatomy. This unit exposes the student to the theoretical and practical facets of both microscopic and macroscopic anatomy of the human body with the emphasis on the microscopic anatomy.  

**Prerequisites:** SCB112 or LSB118  
**Antirequisites:** LSB152  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-2

**LSB365 PATHOLOGY**  
Pathology introduces students to the study of the disease processes underlying the major diseases of human organ systems. General disease processes of the major specific diseases of the organ systems are introduced, and then become the focus in systematic pathology. An understanding of general and systematic pathology is fundamental to the application of basic biomedical knowledge to clinically relevant states and the major diseases. This unit provides students with the foundation knowledge needed for subsequent clinical semesters. On completion of this unit, students should know, understand and be able to apply facts, concepts and terms related to disease processes and the major diseases occurring in the organ systems.  

**Prerequisites:** LSB250 and LSB255  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-2

**LSB438 IMMUNOLOGY 1**  
The mechanisms of the immune process including the nature of antigens, antibodies, antigen-antibody reactions, antibody formation, control of the humoral and cell-mediated immune responses, and immunisation of humans against infections are addressed in this unit.  

**Prerequisites:** LQB386 and LSB250  
**Antirequisites:** LSN438  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-2

**LSB508 ADVANCED METABOLISM**  
Detailed information is provided in this unit on the catabolic and anabolic pathways for the major molecules in mammalian systems. Important aspects of non-mammalian metabolism are described. Advanced concepts in bioenergetics and thermodynamics are described in the context of cellular metabolism. Integration of metabolism including production of mixed conjugates of biological significance such as amino-sugars and lipopolysaccharides, and hormonal regulation of metabolism are included.  

**Prerequisite(s):** LSB408  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2009 SEM-1

**LSB658 CLINICAL PHYSIOLOGY**  
In this unit students explore the physiological basis, pathogenesis, clinical features and treatment rationale of the major disorders of the cardiovascular, respiratory, haematological, renal, gastrointestinal, nervous and endocrine systems. One of the objectives of the unit is to develop critical thinking and apply this to the discussion of pathophysiological cases.  

**Prerequisites:** (LSB255 or LSB142 or LSB131) AND (LQB388 or LSB250 or LSB451 or LSB231)  
**Corequisites:** LSB488  
**Antirequisites:** LSB467  
**Assumed knowledge:** Students should enrol in LQB488 in the same semester if not previously completed  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-2

**MGB223 ENTREPRENEURSHIP AND INNOVATION**  
This unit introduces students to the nature and characteristics of entrepreneurship and innovation and explores the inter-relationship between the two within contemporary economies from managerial perspective. Learning will be directed towards developing the theoretical and applied knowledge, skills, and attitudes that will support and enhance innovation and enterprise creation activity, through the development of a business plan. The unit is designed for those individuals interested in creating a new venture or working in industries as employees of venture owners or those that serve this sector. Students will have opportunity to build a comprehensive plan of their business.
PUB104 AUSTRALIAN HEALTH CARE SYSTEMS
This is an important unit for students entering or planning to enter the health industry as it is designed to give a broad overview of systems of health care in Australia and their methods of operation. This unit introduces the role of health service managers as members of the health care team, the basic principles of health service management in health care facilities and beyond, and the functions of health service managers.
Credit points: 12  Contact hours: 3 per week  Campus: Kelvin Grove and External  Teaching period: 2010 SEM-1

PUB201 FOOD AND NUTRITION
This unit includes the following: an introduction to the history of food and nutrition in Australia; the food system; the food supply; proteins, carbohydrates, fats, vitamins and minerals; food grouping systems; dietary guidelines; the recommended dietary intakes; nutrition through the life cycle; food and nutrition problems; nutrition as a public health issue; and international nutrition issues.
Credit points: 12  Contact hours: 4 per week  Campus: Kelvin Grove and External  Teaching period: 2010 SEM-2

PUB209 HEALTH, CULTURE AND SOCIETY
This unit is concerned with the social and cultural dimensions of health and illness and how they relate to health status and patterns of behaviour. The unit introduces students to thinking about health from sociological and anthropological perspectives, drawing on relevant concepts and theory to examine selected public health issues. Identifying and addressing social and cultural factors that shape people's health experiences of health, illness and health systems are integral parts of public health practice in terms of reducing health inequalities, delivering appropriate services, and ultimately improving population health outcomes.
Credit points: 12  Contact hours: 3 per week  Campus: Kelvin Grove  Teaching period: 2010 SEM-2

PUB251 CONTEMPORARY PUBLIC HEALTH
This unit provides an introduction to the following: the philosophy and approach of public health; the traditional public health process; the multidisciplinary nature of public health; and health policy and its impact on public health. Recent reformulations of traditional public health approaches including health promotion, intersectoral action for health and healthy public policy are examined. The role of public health in Australia and overseas, its main discipline components and some of the constraints faced by public

PUB326 EPIDEMIOLOGY
Epidemiology is the core scientific method of public health. It is the study of the distribution of health and disease in the population and includes research into causes of disease and the effectiveness of public health programs. Epidemiological methods are used to generate the evidence base for clinicians, health promotion specialists, health educators, occupational and environmental health officers and health service managers.
Antirequisites: HLN710  Assumed knowledge: Successful completion of 96cp is assumed prior knowledge
Credit points: 12  Contact hours: 3 per week (Ext PU40 Pub Hlth students only)  Campus: Kelvin Grove and External  Teaching period: 2010 SEM-1

PUB332 SUSTAINABLE ENVIRONMENTS FOR HEALTH

PUB336 WOMEN'S HEALTH
This unit explores the data and current health issues related to women's health and critically evaluates health related policies, systems and practices in terms of their impact on women's health, internationally and in Australia. The social, economic, cultural and political influences on women's health, and the specific needs of sub-populations of women are examined.
Credit points: 12  Contact hours: 3 per week  Campus: Kelvin Grove  Teaching period: 2010 SEM-1

PUB405 NUTRITION SCIENCE
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.
Prerequisites: (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

PUB406 HEALTH PROMOTION PRACTICE
This unit ties together the fundamental health promotion knowledge and constructs covered in earlier units in the public health subject area. It builds upon this basis to
introduce students to the range of strategies available to a health promotion practitioner. The unit promotes an appreciation of the strengths and weaknesses of different approaches, as well as related administrative factors. Students undertake a small health promotion project in groups of 3-4. This is an essential field of study for those students who wish to work in a health promotion or related field.

**Prerequisites:** PUB201 or PUB530  
**Credit points:** 12  
**Contact hours:** 3  
**Campus:** Kelvin Grove  
**Teaching period:** 2010 SEM-2

**PUB416 ADVANCED RESEARCH METHODS**

An understanding of research methods is essential in the training of all public health professionals. This unit explores quantitative methods in a variety of health research projects, examining conceptualisation of research questions and hypotheses, core elements of experimental and quasi-experimental designs, and various approaches to the collection, management and analysis of quantitative data. The unit has a practical focus for students who are considering conducting research as well as those interested in deeper appreciation of implementation behind published research results.

**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Kelvin Grove and External  
**Teaching period:** 2010 SEM-1

**PUB436 EVIDENCE BASED PRACTICE**

Qualitative inquiry in Public Health

Qualitative inquiry is essential to generate knowledge of people's lived experiences, the meanings they ascribe to them, and to the social dimension of health. The nature and complexities of many public health problems require a mix of research methods and the contributions of qualitative inquiry are increasingly recognised. The practical skills acquired in this unit can be applied to a wide range of public health works, including community based program evaluation, international health and health social science research.

**Credit points:** 12  
**Teaching period:** 2010 SEM-2

**PUB461 QUALITATIVE INQUIRY IN PUBLIC HEALTH**

Qualitative Inquiry in Public Health

Qualitative inquiry is essential to generate knowledge of people's lived experiences, the meanings they ascribe to them, and to the social dimension of health. The nature and complexities of many public health problems require a mix of research methods and the contributions of qualitative inquiry are increasingly recognised. The practical skills acquired in this unit can be applied to a wide range of public health works, including community based program evaluation, international health and health social science research.

**Credit points:** 12  
**Teaching period:** 2010 SEM-2

**PUB470 FOOD SERVICE 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

**PUB474 FOOD SCIENCE**

To fulfil 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

**PUB480 HEALTH ADMINISTRATION FINANCE**

This unit addresses the following: financial administration and resource/financial distribution within the Commonwealth and State governments; financial management in the health industry; financial analysis; planning and budgeting; working capital management in the health industry; health care financial performance and evaluation; and methodologies for costing health services.

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

**PUB490 QUALITY MANAGEMENT IN HEALTH**

Quality is integral to all aspects of healthcare delivery. Knowledge and understanding of the concepts of quality management, and the ability to perform quality processes are essential for all health care professionals. This unit provides students with the necessary knowledge and skills to develop a quality management program, perform quality improvement activities, and expand outcomes into process improvements and organisational change. The principles underpinning evidence based medicine and clinical pathways (including variance analysis) are presented, methods of health care performance measurement are explored, and a clinical quality framework model is introduced.

**Assumed knowledge:** Background knowledge of the health care system is assumed knowledge.  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Kelvin Grove  
**Teaching period:** 2010 SEM-2

**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:** 3 per week  
**Campus:** Kelvin Grove  
**Teaching period:** 2010 SEM-2
hours: 4 per week  Campus: Kelvin Grove  Teaching period: 2010 SEM-1

PUB514 CONTRACT/PROJECT MANAGEMENT
This unit aims to prepare students for participation in contract and project management in the health sector. The unit provides advanced undergraduate students with an opportunity to develop an understanding of health project contract management using both theoretical and practical examination of current state and national contracts and projects.
Credit points: 12  Contact hours: 4 per week  Campus: Kelvin Grove and External  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 LSB48 Credit points: 12  Contact hours: 5 per week  Campus: Kelvin Grove  Teaching period: 2010 SEM-1

PUB545 HEALTH POLICY, PLANNING AND ADVOCACY
Antirequisites: PUB511  Credit points: 12  Teaching period: 2010 SEM-1

PUB557 HEALTH NEEDS OF INDIGENOUS AUSTRALIANS AND OTHER POPULATIONS
The unit examines the health needs of a range of population groups, particularly the health needs of indigenous Australians. Health is viewed in its social and economic context. The unit allows a recognition and focus on particular health concerns that might not be considered significant in an examination of broad patterns of health. It forces a consideration of how strategies to improve health, including important questions of access and equity. The unit provides an overall picture of health patterns of indigenous Australians and other specific populations.
Prerequisites: PUB251  Credit points: 12  Contact hours: 3 per week  Campus: Kelvin Grove  Teaching period: 2010 SEM-1

PUB561 STATISTICAL METHODS IN HEALTH
The ability to analyse and interpret quantitative data is an important skill for all graduates in public health. This unit builds upon PUB326 Epidemiology and complements analytical methods learned in PUB461 Qualitative Enquiry in Public Health. Through critical review of the literature, and worked examples from a range of topic areas, students become familiar with the process of summarising and describing data, defining and testing hypotheses, univariate methods and tests of bivariate associations, the concept of adjustment and the interpretation and presentation of analytical results.
Prerequisites: PUB326  Antirequisites: PUB561  Credit points: 12  Contact hours: 3 per week  Campus: Kelvin Grove  Teaching period: 2010 SEM-1

PUB565 INTERNATIONAL HEALTH
International health will broaden student's understanding of global health systems and programs, providing an advanced level analysis that explores systems and methods that have been devised to address population health problems in developing and developed countries. Students examine the historic context of the international health movement from the early 1900s to recent changes in global health systems, explore the diversity of services between and within countries, and consider issues of globalisation, economic reform, health equity and ethics. This unit is particularly relevant to students who are interested in international health development work.
Prerequisites: PUB251  Assumed knowledge: At least two years of study in health area, including PUB326 is assumed knowledge.  Credit points: 12  Contact hours: 3 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

PUB609 HEALTH RESOURCE ALLOCATION
This unit aims to prepare students for participation in health sector decision making as underpinned by a range of health specific evaluation activities. The unit provides students with a grounding in the methodologies of health evaluation and resource allocation.
**PUB611 RISK MANAGEMENT**
Note: This unit is available externally only for Second Semester 2010.
This unit provides students with the knowledge and skills for the assessment and quantification of risk in the workplace. It considers the various models available to investigate and analyse accidents and propose strategies to prevent similar incidents in the future. Various hazard identification techniques such as HAZOP, Fault Tree Analysis and FMEA are discussed. The unit provides students with the ability to position occupational health and safety within an organisation's strategic decision making process.
**Credit points:** 12  **Campus:** Kelvin Grove and External  **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

**PUB632 INDEPENDENT STUDY**
Independent study allows students to study a topic which is not otherwise available as a formal unit. Students have the opportunity to pursue their studies relatively independently and to develop and practise skills in problem identification, evaluation and critical thinking. The study may be for example a literature review or a placement in a particular setting. The process and outcomes are negotiated in a contract with a supervisor.
**Assumed knowledge:** Completion of 192 credit points, a GPA >5 and an approved supervisor are assumed knowledge and requirements for enrolment in this unit.
**Credit points:** 12  **Campus:** Kelvin Grove and External  **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

**PUB644 HEALTH PROMOTING SCHOOLS**
This subject is designed to extend students' understanding of health promotion in a school setting. The learning objectives for this course are designed to reinforce the links between education and health, in relation to the planning, implementation and evaluation of a school based health promotion intervention. It also addresses some of the management issues that underlie such an approach to the promotion of health and well being in the school community. Case studies or activities offer a range of opportunity for reflection and investigation.
**Credit points:** 12  **Campus:** External  **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

**PUB720 NUTRITION AND DIETETIC PROJECT**
**Prerequisites:** PUB416 and PUB645  **Credit points:** 24  **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:** PUB875  **Assumed knowledge:** Completion of all prior core units in your course is assumed knowledge.  **Credit points:** 12  **Teaching period:** 2010 SEM-1 and 2010 SEM-2

**PUB822 PRACTICE IN FOODSERVICE MANAGEMENT**
**Prerequisites:** PUB645 and PUB506  **Antirequisites:** PUB882-1, PUB882-2  **Credit points:** 12  **Teaching period:** 2010 SEM-1 and 2010 SEM-2

**PYB012 PSYCHOLOGY**
The body of knowledge which defines Psychology as a discipline is basic to an understanding of human behaviour and interaction. Psychological theories, concepts and methods of investigation provide ways of evaluating
personal and professional practice. Informed practice can then seek to meet the needs of individuals, groups and communities. All professional people need to have frameworks for understanding their own behaviour and that of others. This unit provides students with essential knowledge as a basis for their personal and professional effectiveness. It is the foundation for understanding further study in psychology and its many applications.

**Equivalents:** PYB100, PYB101  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point and Kelvin Grove  
**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 human services and clinical psychology 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)  
**Antirequisites:** SCB113  
**Credit points:** 12  
**Contact hours:** 4.5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-1 and 2010 SEM-2