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

Year offered: 2011
Admissions: Yes
CRICOS code: 070081C
Course duration (full-time): 5 years
Domestic Fees (indicative): 2011: CSP $2,938 (indicative) per semester
International Fees (indicative): 2011: $12,250 (indicative) per semester
Domestic Entry: February
International Entry: February
QTAC code: 425192
Past rank cut-off: 97
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.qut.edu.au/assumed-knowledge
Total credit points: 516
Course coordinator: Enquiries to enquirieshms@qut.edu.au, 07 3138 4697; or sph.studentcentre@qut.edu.au, 07 3138 3368
Campus: Kelvin Grove

Recommended Study
Health Education or Physical Education.

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

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

Find out more on deferment.

Course structure

| Year 1, Semester 1 |
|---|---|
| LSB131 | Anatomy |
| PUB251 | Contemporary Public Health |
| PUB474 | Food Science |
| SCB113 | Chemistry for Health and Medical Science |

| Year 2, Semester 1 |
|---|---|
| HMB271 | Foundations of Motor Control, Learning and Development |
| HMB382 | Principles of Exercise Prescription |
| PUB326 | Epidemiology |
| PUB530 | Health Education and Behaviour Change |

| Year 2, Semester 2 |
|---|---|
| HMB273 | Exercise Physiology 1 |
| HMB282 | Resistance Training |
| LQB481 | Biochemical Pathways and Metabolism |
| PYB208 | Counselling Theory and Practice 1 |
| PUB405 | Nutrition Science |

| Year 3, Semester 1 |
|---|---|
| HMB277 | Exercise and Sport Nutrition |
| HMB382 | Principles of Exercise Prescription |
| PUB506 | Foodservice Management |

| Year 3, Semester 2 |
|---|---|
| HMB272 | Biomechanics |
| HMB275 | Exercise and Sport Psychology |
| PUB648 | Diet, Nutrition and Chronic Disease |
Year 4, Semester 1

HMB373  Cardiorespiratory and Metabolic Disorders
HMB470  Practicum 1
PUB461  Qualitative Inquiry in Public Health
PUB509  Community and Public Health Nutrition

Year 4, Semester 2

HMB378  Neurological, Psychological and Musculoskeletal Disorders
HMB481  Clinical Exercise for Cardiorespiratory and Metabolic Disorders
PUB628  Advanced Food Studies
HMB385  Principles of Exercise Programming
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

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 SYNOPSES

### HMB172 NUTRITION AND PHYSICAL ACTIVITY

This unit is an introduction to principles of nutrition in relation to the physical activity setting, and the role of nutrition and physical activity in weight management. This unit also covers the essential elements of child growth and development (auxology) in relation to nutrition and health. The unit is designed to underpin studies in exercise physiology and sports nutrition.

**Credit points:** 12  **Contact hours:** 3 per week  **Campus:** Kelvin Grove  **Teaching period:** 2011 SEM-1 and 2011 SEM-2

### 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:** 2011 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:** 2011 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...
Information for future students
Published on : 13 June 2012

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: 4 per week Campus: Kelvin Grove Teaching period: 2011 SUM-2 and 2011 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: LSB231 or LSB142 Credit points: 12 Contact hours: 4 per week Campus: Kelvin Grove Teaching period: 2011 SEM-2

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 psychosocial development; leadership and team cohesion.

Prerequisites: PYB100 or PYB012 or EDB002 Credit points: 12 Contact hours: 3 per week Campus: Kelvin Grove Teaching period: 2011 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: 2011 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: 2011 SEM-1

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

HMB362 BIOMECHANICS 2
This unit includes the following: measurement techniques within biomechanics; analysis of force systems; photographic, goniometric and electrographic 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: 2011 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: 2011 SEM-2
HMB373 CARDIORESPIRATORY AND METABOLIC DISORDERS
This unit builds on foundation units to examine selected disorders of human movement that have a cardiorespiratory or metabolic basis. The unit identifies major features of each disease together with assessment methods, and forms the basis for subsequent units in clinical exercise prescription. 
Prerequisites: HMB271, HMB272, HMB273, HMB274
Credit points: 12  Campus: Kelvin Grove  Teaching period: 2011 SEM-1

HMB378 NEUROLOGICAL, PSYCHOLOGICAL AND MUSCULOSKELETAL DISORDERS
This unit builds on foundation units to examine selected disorders of human movement that have a neurological, psychological or musculoskeletal basis. The unit identifies major features of each disease together with assessment methods, and forms the basis for subsequent units in clinical exercise prescription.
Prerequisites: HMB271, HMB272, HMB273, HMB274
Credit points: 12  Campus: Kelvin Grove  Teaching period: 2011 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: 2011 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: 2011 SEM-1

HMB385 PRINCIPLES OF EXERCISE PROGRAMMING
This unit provides students with the knowledge and capacity to design and implement safe, effective evidence-based exercise programs for individuals and groups in order to achieve specified goals. It is taught through lectures and practical laboratory classes. Assessment will be through group problem-solving exercises, an individual written report, and a final written examination.
Prerequisites: HMB382  Credit points: 12  Campus: Kelvin Grove

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 clinic (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. [Designated unit]
Prerequisites: HMB382 and HMB385. HMB385 can be taken in the same study period.  Credit points: 12  Campus: Kelvin Grove  Teaching period: 2011 SEM-1 and 2011 SEM-2

HMB481 CLINICAL EXERCISE FOR CARDIORESPIRATORY AND METABOLIC DISORDERS
This unit covers the whole range of activities associated with the assessment and programming of exercise and activity for individuals with cardiorespiratory and metabolic disorders. The unit focuses on the screening, assessment, prescription and evaluation of exercise and activity in the treatment and management of these disorders, including disease-specific considerations.
Prerequisites: HMB373 and HMB382. HMB373 can be studied in the same teaching period.  Credit points: 12  Campus: Kelvin Grove  Teaching period: 2011 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 SCB112) or SCB113  Antirequisites: LSB275 and LSB325 and LSB308  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-1

LQB388 MEDICAL PHYSIOLOGY 1
This unit deals specifically with the physiological systems that are responsible for the maintenance of health in humans. In the course of the semester students will
investigate half the systems that constitute the human body (with the remainder dealt with in the second semester unit Physiology 2 [LQB488]). The unit offers a useful frame of reference for students enrolled in courses such as animal biology, biochemistry, microbiology, molecular biology, nutrition and human movements. Together with Physiology 2 [LQB488] this unit is a prerequisite to the third level unit, Applied Physiology [LQB588] and will be of particular interest to students considering medicine as a postgraduate career option.

Prerequisites: LSB111 or LSB131 or LSB142 or LSB255 or LSB258 or SCB120  Antirequisites: LSB358  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 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  Corequisites: PUB405  Antirequisites: LSB275, LSB325, LSB408  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-2

LQB488 MEDICAL PHYSIOLOGY 2

An appreciation of how the human body works is an essential prerequisite to understanding the basis of health, disease, diagnostic technologies and treatment strategies. This unit deals specifically with the physiological systems that are responsible for the maintenance of health in humans. It therefore provides a useful frame of reference for students enrolled in biomedical science, pharmacy, human movement studies, nutrition and dietetics or any of the life science majors. The aim of this unit is to introduce you to the normal physiology of the human body in order to facilitate an understanding of how injury or disease affect health as well as the mechanism of action of drugs and other therapeutic interventions.

Prerequisites: LSB111, LSB131, LSB142, LSB255, LSB258, NRB270 or SCB120  Antirequisites: LSB458  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2011 SEM-2

LSB131 ANATOMY

This unit includes basic concepts of anatomy: an overview of the structure of cells, body tissues, and body systems; aspects of surface anatomy which are relevant to human movement; musculoskeletal systems.

Antirequisites: LSB142, LSB182, LSB258  Equivalents: LSB145  Credit points: 12  Contact hours: 5 per week  Campus: Gardens Point  Teaching period: 2011 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  Teaching period: 2011 SEM-1 and 2011 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 health is also addressed. This unit considers groups with special needs and contemporary issues.

Antirequisites: PUN106  Credit points: 12  Contact hours: 4 per week (KG and Ext Sem 1; KG Sem 2)  Campus: Kelvin Grove and External  Teaching period: 2011 SEM-1 and 2011 SEM-2

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: 2011 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  
Corequisites: LQB481  
Credit points: 12  
Contact hours: 4 per week  
Campus: Kelvin Grove  
Teaching period: 2011 SEM-2

PUB461 QUALITATIVE INQUIRY IN PUBLIC HEALTH

Qualitative methods are 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  
Contact hours: 3 per week  
Campus: Kelvin Grove  
Teaching period: 2011 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 (This unit is available ONLY in courses where listed as a core unit)  
Credit points: 12  
Contact hours: 5 per week  
Campus: Kelvin Grove  
Teaching period: 2011 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: 2011 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: 2011 SEM-1

PUB530 HEALTH EDUCATION AND BEHAVIOUR CHANGE

This unit gives students the skills to bring about change in health-related behaviours through educational interventions. Topics covered include key health education and behaviour change theories, frameworks, strategies; approaches to bring about change in different contexts; research and design of educational interventions to suit different target populations in different settings, using evidence-based practice; and health literacy as a function of health education.

Antirequisites: PUB329, PUB341  
Credit points: 12  
Campus: Kelvin Grove  
Teaching period: 2011 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: Completion of 288cp including PUB645 and PUB641 and PUB506  
Assumed knowledge: Students are expected to have completed all theoretical units in nutrition and dietetics  
Credit points: 12  
Contact hours: 3 per week  
Campus: Kelvin Grove

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: 2011 SEM-2

PUB645 INTRODUCTION TO DIETETIC PRACTICE

This unit is part of the preparation for professional dietetic practice and develops students' skills in integrating theory with practice. The unit prepares students for three practical placement units in their final year.

[Designated unit]  
Prerequisites: LQB488 and LQB388 and PUB474 and
LQB481 and PUB405 and (PUB648 or PUB541) and PUB509 and PUB641  
Assumed knowledge: Completion of all prior core units in your course is assumed knowledge.  
Credit points: 12  
Teaching period: 2011 SEM-2

**PUB648 DIET, NUTRITION AND CHRONIC DISEASE**

This unit explores the most common and significant nutrition related chronic diseases of the world and introduces previous and current strategies aiming to prevent or manage these diseases. Psychosocial, cultural, political and economics factors will be discussed. Diseases covered include micronutrient deficiencies, obesity, diabetes, cardiovascular disease, cancer, dental disease and osteoporosis.  
Prerequisites: PUB201, LQB488 and LQB388  
Credit points: 12  
Campus: Kelvin Grove  
Teaching period: 2011 SEM-1 and 2011 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. [Designated unit]  
Prerequisites: Completion of 288 cp including PUB645, PUB641 and PUB506  
Credit points: 24  
Campus: Kelvin Grove

**PUB821 PRACTICE IN COMMUNITY NUTRITION**

This unit provides students with the opportunity, in real world settings, to further develop knowledge, confidence and skills to apply theoretical principles covered in earlier years in the area of community and public health nutrition practice. [Designated unit]  
Prerequisites: PUB509  
Antirequisites: PUB821-1, PUB821-2, PUB875  
Credit points: 12  
Campus: Kelvin Grove

**PUB822 PRACTICE IN FOODSERVICE MANAGEMENT**

This unit provides students with real problems in foodservice settings to develop skills including the planning and organising of foodservices, the application of scientific principles within foodservice management systems, and menu assessment. [Designated unit]  
Prerequisites: Completion of 288 cp including PUB645 and PUB506  
Credit points: 12  
Campus: Kelvin Grove

**PYB007 INTERPERSONAL PROCESSES AND SKILLS**

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

**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: 2011 SEM-2

**SCB113 CHEMISTRY FOR HEALTH AND MEDICAL SCIENCE**

A challenging chemistry unit designed for students undertaking health and/or medical science degrees. A range of topics from sub-discipline areas of general, physical and organic chemistry are covered. General/physical chemistry content includes atomic and molecular structure, electronic structure, bonding, molecular geometry, stoichiometry, 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.  
Antirequisites: PQC105, SCB111 and SCB121  
Credit points: 12  
Contact hours: 5 per week  
Campus: Gardens Point  
Teaching period: 2011 SEM-1