Bachelor of Health Science (Podiatry)/Bachelor of Applied Science (Human Movement Studies) (HL43)

Year offered: 2011
Admissions: No
CRICOS code: 047455C
Course duration (full-time): 5 years
Domestic Fees (indicative): 2011: CSP $3,878 (indicative) per semester
International Fees (indicative): 2011: $11,875 (indicative) per semester
Domestic Entry: February
QTAC code: 425172
Past rank cut-off: 87
Past OP cut-off: 8
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: 528
Course coordinator: Enquiries to enquirieshms@qut.edu.au or phone 07 3138 4697 OR sph.studentcentre@qut.edu.au or phone 07 3138 3368
Campus: Kelvin Grove

Honours
A degree with honours may be awarded to a student who has recorded outstanding achievement in a component of the double degree program.

Professional Recognition
Graduates are eligible for membership of the Australian Podiatry Association (APA) and Sports Medicine Australia (SMA).

Other Course Requirements
There are additional costs associated with this course including the purchase of the practicum shirt (approximately $50) for the human movement studies component, attainment of a current first aid certificate prior to the commencement of third year, and a Blue Card to work with children depending upon the practicum site. Attendance at the human movement studies orientation camp is highly recommended though not compulsory (approximately $115).

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

Further Information
For information about this course, please call the School of Public Health on +617 3138 3368 or email sph.studentcentre@qut.edu.au, and/or School of Human Movement Studies on +617 3138 4697 or email enquirieshms@qut.edu.au

Course structure (full-time)

Year 1, Semester 1
LSB131  Anatomy
SCB113  Chemistry for Health and Medical Science
PUB251  Contemporary Public Health
HMB171  Fitness Health and Wellness

Year 2, Semester 1
HMB271  Foundations of Motor Control, Learning and Development
LSB451  Human Physiology
HMB313  Socio-Cultural Foundations of Physical Activity
PUB326  Epidemiology
PUB339  Podiatric Medicine 1

Year 2, Semester 2
HMB172  Nutrition and Physical Activity
LSB492  Microbiology
PUB437  Pharmacology
PUB438  Medicine
PUB439  Podiatric Medicine 2

Year 3, Semester 1
HMB271  Foundations of Motor Control, Learning and Development
HMB274 Functional Anatomy  
PUB537 Radiographic Image Interpretation  
PUB539 Podiatric Medicine 3

Year 3, Semester 2  
HMB273 Exercise Physiology 1  
HMB275 Exercise and Sport Psychology  
HMB282 Resistance Training  
PUB638 Orthopaedics and Sports Medicine  
PUB639 Podiatric Medicine 4

Year 4, Semester 1  
HMB277 Exercise and Sport Nutrition  
HMB382 Principles of Exercise Prescription  
PUB522 Podiatric Anaesthesiology  
PUB538 Rehabilitation Medicine and Physical Therapies  
PUB739 Podiatric Medicine 5

Year 4, Semester 2  
HMB276 Research in Human Movement  
PUB635 Podiatric Surgery  
PUB862 Transition to the Clinical Profession  
PUB839 Podiatric Medicine 6

Year 5, Semester 1  
HMB378 Neurological, Psychological and Musculoskeletal Disorders  
OR  
HMB379 Disorders of Human Movement  
HMB470 Practicum 1  
PUB738 Professional Placement 1  
HMS Elective from List A - choose one unit from the list below  
HMB361 Functional Anatomy 2  
HMB362 Biomechanics 2  
HMB371 Motor Control And Learning 2  
HMB381 Exercise Physiology 2  
HMB384 Injury Prevention and Rehabilitation  
HMB480 Advanced Exercise Prescription

Year 5, Semester 2  
HMB475 Practicum 2  
PUB838 Professional Placement 2

Potential Careers:  
Exercise Physiologist, Podiatrist, Rehabilitation Professionals.

UNIT SYNOPSES

HMB171 FITNESS HEALTH AND WELLNESS  
The dimensions and interrelationships of health, physical activity and wellness are studied. Basic principles of conditioning and exercise prescription necessary to demonstrate the impact of physical activity on lifestyle diseases, health behaviours and wellness are examined. Principles and theory of behaviour change are employed.  
Credit points: 12  
Contact hours: 3-4 per week  
Campus: Kelvin Grove  
Teaching period: 2011 SEM-1

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 need to email enquirieshms@qut.edu.au

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

**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

**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: 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.

**Prerequisites:** HMB172 or PUB201  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

**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: 2011 SEM-2

**HMB313 SOCIO-CULTURAL FOUNDATIONS OF PHYSICAL ACTIVITY**

This unit lays a foundation in the disciplines of the socio-cultural areas which underpin the study of human movement. It serves as an introduction to the historical, sociological, philosophical, anthropological and cultural foundations of sports, games and leisure activities.

**Credit points:** 12  Contact hours: 4 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

### 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

### 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

### 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

### HMB384 INJURY PREVENTION AND REHABILITATION

This unit considers the following: epidemiology and nature of common injuries that occur at home, school, work and during sporting activities; current philosophies of preventative measures and strategies for the treatment and rehabilitation of injuries; the role of health training, exercise and fitness in injury prevention, treatment and rehabilitation regimes; the pathology of injuries and repair processes highlighted by examining specific examples.

**Prerequisites:** HMB274  
Credit points: 12  
Contact hours: 3 per week  
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 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. [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

**HMB475 PRACTICUM 2**  
This unit includes a comprehensive vocational experience undertaken as a supervised full-time internship. Students are supervised in the performance of operational tasks including clinical, management and administration and further develop independent professional skills and knowledge. The internship is followed by a comprehensive reflective analysis of the experience. [Designated unit]  
**Prerequisites:** HMB470  
**Credit points:** 36  
**Campus:** Kelvin Grove  
**Teaching period:** 2011 SEM-1 and 2011 SEM-2

**HMB480 ADVANCED EXERCISE PRESCRIPTION**  
This is a companion unit to HMB382, and extends the understanding of how fitness assessment and exercise prescription can be applied to an individual. A number of different disease states, special populations and scenarios are used to examine the potential role of physical activity and appropriately prescribed exercise to maintain and improve functional capacity. A strong emphasis is placed on identifying the problems faced in fitness assessment and exercise prescription for special cases and conditions, and finding appropriate solutions.  
**Prerequisites:** HMB382  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Kelvin Grove

**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

**LSB235 ADVANCED ANATOMY**  
An in-depth study of the systematic and regional anatomy of the lower limb is undertaken with particular emphasis on osteology, arthrology, musculature, angiology and neurology.  
**Prerequisites:** LSB131  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-2

**LSB275 BIOMOLECULAR SCIENCE**  
This unit is designed specifically for optometry and podiatry students and introduces you to the study of biochemistry, along with anatomy and physiology. Being an introductory unit, it provides you with the knowledge required for the proper understanding of the functioning of the human body and its organ systems in health and disease, as a preparation for their clinical studies. The aim of the unit is to develop an understanding of the structure and function of biological molecules and metabolic processes.  
**Antirequisites:** LSB381, LSB308, LSB481, LSB408  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point and Kelvin Grove  
**Teaching period:** 2011 SEM-2

**LSB451 HUMAN PHYSIOLOGY**  
This unit involves a course of lectures and practicals, similar to LSB250.  
**Antirequisites:** LSB231  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1

**LSB475 DISEASE PROCESSES 4**  
Disease Processes provides a link between your foundation knowledge in anatomy and physiology and the application of such knowledge in a clinical setting. This intermediate level unit places an emphasis on general pathological knowledge necessary for your understanding of future advanced units. It therefore provides you with the knowledge needed for subsequent clinical semesters. The aim of the unit is to introduce you to the study of disease processes underlying the major diseases of human organ systems.  
**Antirequisites:** LSB321, LSB361, LSB367  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point and Kelvin Grove  
**Teaching period:** 2011 SEM-2

**LSB492 MICROBIOLOGY**  
This unit will provide you with foundation knowledge and an understanding of the diversity of microorganisms, the host’s immune response to infection and methods of control of microorganisms. You will: (i) study relevant infectious disease states, (ii) research the importance of microbial pathogens as aetiological agents of disease, and (iii) reinforce your knowledge of microorganisms and methods of control of microorganisms by performing experiments within the microbiology laboratory.  
**Assumed knowledge:** Basic knowledge of biology and chemistry is assumed for this unit.  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Gardens Point  
**Teaching period:** 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; the public health process; the multidisciplinary nature of public health.
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:** PUB106  
**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

**PUB339 PODIATIC MEDICINE 1**
This unit provides an introduction to the clinical, theoretical and professional aspects of podiatry practice. Students entering the unit begin the transition to the unique and challenging role of clinician, as well as continuing academic learning. Students are required to apply previous background knowledge, ie advanced anatomy, biochemistry, etc, in the clinical setting. Student are also involved in the care of patients attending the university clinic. The unit is particularly designed to encourage the development of essential graduate skills such as a self-directed approach to learning, the ability to work as part of a team and the ability to engage in peer review. [Designated unit]

**Prerequisites:** LSB235 and LSB250 and PUB362. PUB362 can be enrolled in the same study period.  
**Credit points:** 12  
**Contact hours:** 16 (including clinic work)  
**Campus:** Kelvin Grove  
**Teaching period:** 2011 SEM-1

**PUB437 PHARMACOLOGY**
This unit is designed to ensure students understand the basic drug therapies their patients may be using, the groups of drugs used for specific diseases, and their application and relevance to podiatry. Emphasis is placed on drug groups and their use for specific disease, rather than proprietary brands. Students learn to recognise the drug groups and know the system they are acting on in the body. In addition, differentiation between the different categories within one group of systemic drugs and why they are used for a condition is emphasised, along with discussion of contrindications and drug interactions.

**Prerequisites:** LSB275, LSB451, LSB475 and PUB438  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point

**PUB438 MEDICINE**
Following completion of this unit, students should be able to recognise and understand the clinical features, pathogenesis and significance of common conditions affecting the lower limbs. For example infectious diseases, nervous system disorders, endocrine/metabolic and deficiency states, renal disorders, cardiology, respiratory disorders, immunology, hepatobiliary disorders, musculoskeletal disorders, haematology/lymph, inherited/genetic conditions. The diagnosis and management of dermatological disorders is also covered.

**Prerequisites:** (LSB451 or LSB250) and LSB475 and LSB384  
**Corequisites:** LSB584  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Kelvin Grove

**PUB439 PODIATIC MEDICINE 2**
This unit aims to increase proficiency in the examination and treatment of patients who have common foot problems with particular emphasis on aged care and diabetes. Topics covered include: clinical biomechanics, the elderly and the ageing foot, the management and of the diabetic foot, wound healing and wound care products, footwear construction, assessment and prescription, foot orthoses. [Designated unit]

**Prerequisites:** PUB339  
**Credit points:** 12  
**Contact hours:** 15 (includes clinic work)  
**Campus:** Kelvin Grove  
**Teaching period:** 2011 SEM-2

**PUB522 PODIATIC ANAESTHESIOLOGY**
This unit provides an understanding of the science of anaesthetics as applicable to the practice of podiatry. Students are required to understand the pharmacology of local anaesthetics and their clinical usage, and be competent in injection techniques, including local infiltration and local nerve block in the lower limbs. [Designated unit]

**Prerequisites:** (PUB437 or LSB584) and PUB438 and (PUB439 or PUB539)  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Kelvin Grove  
**Teaching period:** 2011 SEM-1

**PUB537 RADIOGRAPHIC IMAGE INTERPRETATION**
This unit is designed to give the student of podiatric medicine an understanding and ability to recognise normal and abnormal foot radiographs. It also enables the student to utilise radiology as an important diagnostic tool in foot pathology.

**Prerequisites:** PUB438 and PUB439 and PUB539.
PUB439 and PUB539 can be taken in the same study period. **Credit points:** 12  **Contact hours:** 4 per week  **Campus:** Kelvin Grove  **Teaching period:** 2011 SEM-1

**PUB538 REHABILITATION MEDICINE AND PHYSICAL THERAPIES**
The unit introduces a wide range of diagnostic and physical treatment modalities used in modern podiatric practice. Students gain understanding in uses, applications, contraindications and limitations of each modality studied in direct connection with ongoing clinical studies and theoretical components of podiatric medicine.  
**Prerequisites:** PUB439  **Corequisites:** PUB522  **Credit points:** 12  **Contact hours:** 3 per week  **Campus:** Kelvin Grove  **Teaching period:** 2011 SEM-1

**PUB539 PODIATRIC MEDICINE 3**
This unit develops professional understanding of the general and specific effects of medical and surgical conditions on the human foot. It also expands the concept of total case management in terms of the interdisciplinary approach, including physical, mechanical and surgical techniques. Completion of this unit should enable students to consolidate the podiatrist's role in the health care team across the spectrum of practice.  
**Prerequisites:** PUB437 and PUB438 and PUB439 and PUB537 and LSB584. PUB537 and LSB584 can be taken in the same study period.  
**Credit points:** 12  **Contact hours:** 12  **Campus:** Kelvin Grove  **Teaching period:** 2011 SEM-1

**PUB635 PODIATRIC SURGERY**
This unit addresses the implementation of podiatric surgical techniques based on strong theoretical knowledge. On completion, students should understand the principles and techniques of lower limb surgery. Students are taught minor surgical techniques and review some of the more common major surgical procedures including the foot and ankle.  
**Prerequisites:** PUB522 and PUB438 and (PUB437 or LSB584) and (PUB639 or PUB539)  
**Credit points:** 12  **Contact hours:** 3 (including surgical work)  **Campus:** Kelvin Grove  **Teaching period:** 2011 SEM-2

**PUB638 ORTHOPAEDICS AND SPORTS MEDICINE**
This unit provides students with a detailed knowledge of orthopaedic and musculoskeletal conditions affecting the lower limb. The unit also discusses the assessment and management of the sports patient.  
**Prerequisites:** PUB537 and PUB538 and PUB639. PUB639 can be taken in the same study period.  
**Credit points:** 12  **Campus:** Kelvin Grove  **Teaching period:** 2011 SEM-2

**PUB639 PODIATRIC MEDICINE 4**
This unit extends the student by way of a greater role in independent case investigation and clinical case presentations. Complex case histories and treatment interventions are pursued. The theory and treatment of paediatric disorders is studied and students are introduced to specialist clinics in the podiatry facility and treatment of higher order cases. Students implement a wide range of treatments and should be able to consolidate skills acquired. Diagnostic skills are also developed with the wider range of patients being treated and the specialised study of disciplines such as dermatology and radiology further integrating academic and clinical studies.  
**Prerequisites:** PUB539  
**Credit points:** 12  **Contact hours:** 12  **Campus:** Kelvin Grove  **Teaching period:** 2011 SEM-1

**PUB738 PROFESSIONAL PLACEMENT 1**
The aim of this unit is to develop high-level clinical skills and professionalism in a range of clinical settings. Increased understanding of the various clinical and non-clinical roles that podiatrists play in the community will be emphasised through external placements.  
**Prerequisites:** PUB639 and PUB538 and PUB537 and PUB635 and PUB739. PUB635 and PUB739 can be taken in the same study period.  
**Credit points:** 12  **Contact hours:** 9 per week  **Campus:** Kelvin Grove  **Teaching period:** 2011 SEM-1

**PUB739 PODIATRIC MEDICINE 5**
The aim of this unit is to provide you with the diagnostic and treatment skills necessary to manage patients with more complex conditions, introduce contemporary issues in podiatry including national and international issues, and to encourage you to critically evaluate the medical literature to inform your clinical decisions.  
**Prerequisites:** PUB537 and PUB538 and PUB638 and PUB639  
**Corequisites:** PUB738  
**Antirequisites:** PUB740  
**Credit points:** 12  **Campus:** Kelvin Grove  **Teaching period:** 2011 SEM-1

**PUB838 PROFESSIONAL PLACEMENT 2**
The aim of this unit is to develop high level clinical skills and professionalism in a range of clinical settings. Increased understanding of the various clinical and non-clinical roles that podiatrists play in the community are emphasised through external placements. Students complete clinical rotations not attempted in PUB738 Advanced Clinical Studies 1.  
**Prerequisites:** PUB738, PUB739 and PUB839. PUB839 may be taken concurrently.  
**Credit points:** 12  **Contact hours:** 9 per week  **Campus:** Kelvin Grove  **Teaching period:** 2011 SEM-2

**PUB839 PODIATRIC MEDICINE 6**
The aim of this unit is to ensure students are able to demonstrate adequate knowledge and skills expected for entry into the podiatry profession.

**Prerequisites:** PUB738, PUB739 and PUB838. PUB838 may be taken concurrently.  
**Antirequisites:** PUB840  
**Credit points:** 12  
**Campus:** Kelvin Grove  
**Teaching period:** 2011 SEM-2

**PUB862 TRANSITION TO THE CLINICAL PROFESSION**

Health professionals work within financial, legal, ethical and professional frameworks. Practice in public and private settings requires knowledge of accounting, marketing, human resources, project management and professionalism in the health context. This unit prepares students for the transition to practice by exploring these concepts and their relationship to employment/practice.

**Prerequisites:** PUB739 or PUB740  
**Credit points:** 12  
**Campus:** Kelvin Grove  
**Teaching period:** 2011 SEM-1

**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

**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:** PQB105, SCB111 and SCB121  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2011 SEM-1