Overview
This course has been replaced by HM44 Bachelor of Clinical Exercise Physiology from first semester 2010.

Continuing students will complete their course requirements in HM42 Bachelor of Applied Science (Human Movement Studies).

Human movement studies graduates work in a diverse range of settings as exercise physiologists, sports administrators, exercise therapists, strength and conditioning specialists and rehabilitation specialists.

Career Options
The course provides skills for careers in a range of exercise and sports science professions. Career settings include:
- rehabilitation and hospital clinics
- family and community services
- corporate health and fitness
- local and state government agencies
- universities and colleges
- institutes of sport
- the health and fitness industry
- personal training.

Professional Membership
Graduates are eligible for professional membership of the Australian Association of Exercise and Sports Science (AAESS). This four-year degree will qualify you for exercise physiologist classification by the professional body.

Electives
Electives are available in various areas including psychology of rehabilitation, anatomy, physiology, biomechanics, motor control and learning, children in sport, sociology of sport and exercise prescription. Students must choose at least 4 out of the 6 units listed in LIST A. The remaining 5 units can be elected from either the remaining 2 units in List A and any 3 from the units in List B, or any units from List B, or from any approved discipline within QUT (with course coordinator’s approval).

Honours
A degree with honours may be awarded to students who have recorded outstanding achievement in the four-year program.

Recommended Study
One of Maths B, Maths C, Biological Science, Chemistry, Physics, Health Education or Physical Education.

Other course requirements
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, visit http://bluecard.qut.com.

additional costs There are additional costs associated with this course including the purchase of the practicum shirt (approximately $50), the attainment of a current First Aid Certificate prior to the commencement of third year. Attendance at the orientation camp is highly recommended though not compulsory (approximately $165).

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

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

Find out more on deferment.

Further Information
For information about this course, please call the School of Human Movement Studies on +61 7 3138 4697 or email enquirieshms@qut.edu.au

Full-Time Course structure

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<tbody>
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<td>Introduction to Exercise and Movement Science</td>
</tr>
<tr>
<td>HMB171</td>
<td>Fitness Health and Wellness</td>
</tr>
<tr>
<td>LSB131</td>
<td>Anatomy</td>
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<tr>
<td>PUB220</td>
<td>Medical Terminology</td>
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<th>Year 1, Semester 2</th>
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<tr>
<td>HMB172</td>
<td>Nutrition and Physical Activity</td>
</tr>
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<td>LSB231</td>
<td>Physiology</td>
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<td>PYB007</td>
<td>Interpersonal Processes and Skills</td>
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<td>PYB012</td>
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<th>Year 2, Semester 1</th>
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<tr>
<td>HMB271</td>
<td>Foundations of Motor Control, Learning and Development</td>
</tr>
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<td>HMB274</td>
<td>Functional Anatomy</td>
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<td>HMB277</td>
<td>Exercise and Sport Nutrition</td>
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<td>HMB313</td>
<td>Socio-Cultural Foundations of Physical Activity</td>
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<th>Year 2, Semester 2</th>
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<tr>
<td>HMB272</td>
<td>Biomechanics</td>
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<tr>
<td>HMB273</td>
<td>Exercise Physiology 1</td>
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<td>HMB275</td>
<td>Exercise and Sport Psychology</td>
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<td>HMB282</td>
<td>Resistance Training</td>
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<th>Year 3, Semester 1</th>
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<tbody>
<tr>
<td>HMB379</td>
<td>Disorders of Human Movement</td>
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<td>HMB382</td>
<td>Principles of Exercise Prescription Elective</td>
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<th>Year 3, Semester 2</th>
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<tbody>
<tr>
<td>HMB276</td>
<td>Research in Human Movement</td>
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<tr>
<th>Year 4, Semester 1</th>
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<tbody>
<tr>
<td>HMB470</td>
<td>Practicum 1 Elective</td>
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<td>Elective</td>
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<th>Year 4, Semester 2</th>
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<tr>
<td>HMB475</td>
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<tr>
<th>HMS Electives Lists</th>
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<tr>
<td>List A Electives (four to be completed)</td>
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<tr>
<td>HMB361</td>
<td>Functional Anatomy 2</td>
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<tr>
<td>HMB362</td>
<td>Biomechanics 2</td>
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<tr>
<td>HMB371</td>
<td>Motor Control And Learning 2</td>
</tr>
<tr>
<td>HMB381</td>
<td>Exercise and Sport Nutrition</td>
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<tr>
<td>HMB384</td>
<td>Injury Prevention and Rehabilitation</td>
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<tr>
<td>HMB480</td>
<td>Advanced Exercise Prescription</td>
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<tr>
<td>List B Electives (five to be completed)</td>
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<tr>
<td>HMB361</td>
<td>Functional Anatomy 2</td>
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<td>HMB362</td>
<td>Biomechanics 2</td>
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<tr>
<td>HMB371</td>
<td>Motor Control And Learning 2</td>
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<tr>
<td>HMB376</td>
<td>Motor Development in Children</td>
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<tr>
<td>HMB381</td>
<td>Exercise and Sport Nutrition</td>
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<tr>
<td>HMB384</td>
<td>Injury Prevention and Rehabilitation</td>
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<tr>
<td>HMB480</td>
<td>Advanced Exercise Prescription</td>
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<tr>
<td>ECG COURSE</td>
<td>ECG Analysis and Interpretation Course is offered through UQ Sport, University of Qld, St Lucia (Summer 2009/2010 and Sem. 1 2010)</td>
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<tr>
<td>BSB110</td>
<td>Accounting</td>
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<tr>
<td>BSB126</td>
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<tr>
<td>BSB115</td>
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<tr>
<td>LSB658</td>
<td>Clinical Physiology</td>
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<tr>
<td>PUB201</td>
<td>Food and Nutrition</td>
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<td>PUB251</td>
<td>Contemporary Public Health</td>
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<td>PUB332</td>
<td>Sustainable Environments For Health</td>
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<td>PUB326</td>
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<tr>
<td>PYB208</td>
<td>Counselling Theory and Practice 1</td>
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<tr>
<td>SCB113</td>
<td>Chemistry for Health and Medical Science</td>
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List B electives may be selected from other QUT undergraduate courses. Students also have the option to undertake a university-wide unit set. Unit sets comprise 4 units covering a specific area of study and those offered by the Faculty of Health and the Faculty of Business may be of particular interest.

Students who have successfully completed 288 credit points and have met the general requirements for a three year degree, may graduate with a Bachelor of Applied Science after seeking approval through the School of Human Movement Studies on (07) 3138 4697.

Health Unit prerequisites/corequisites

For information on prereqs & coreqs visit: www.hlth.qut.edu.au/study/forcurrentstudents/

Potential Careers:
Fitness Assessor/Personal Trainer, Health Information Manager, Rehabilitation Professionals, Sports Scientist.

UNIT SYNOPSES

BSB110 ACCOUNTING
Accounting data is the basis for decision making in any organisation. Accordingly, the aim of this unit is to provide students with a basic level of knowledge of modern financial and managerial accounting theory and practice so that they can understand how accounting data is used to help make decisions in organisations. The unit covers financial procedures and reporting for business entities, analysis and interpretation of financial statements and planning, control and business decision making.

Antirequisites: BSD110, CNB293, UDB342
Equivalents: CTB110
Credit points: 12
Contact hours: 3 per week
Campus: Gardens Point and Caboolture
Teaching period: 2010 SEM-1, 2010 SEM-2 and 2010 SUM

BSB115 MANAGEMENT
The unit provides an introduction to the theories and practice of management and organisations. Emphasis is on the conceptual and people skills that are needed in all areas of management and in all areas of organisational life. The unit acknowledges that organisations exist in an increasingly international environment where the emphasis will be on knowledge, the ability to learn, to change and to innovate. Organisations are viewed from individual, group, corporate and external environmental perspectives.

Antirequisites: BSD115
Equivalents: CTB115
Credit points: 12
Contact hours: 3 per week
Campus: Gardens Point and Caboolture
Teaching period: 2010 SEM-1, 2010 SEM-2 and 2010 SUM

BSB126 MARKETING
This introductory subject examines the role and importance of marketing to the contemporary organisation. Emphasis is placed on understanding the basic principles and practices of marketing such as the marketing concept, market segmentation, management information systems and consumer behaviour. The unit explores the various elements of the marketing mix, with special reference to product, price, distribution, and promotion, including advertising and public relations. By way of introduction only, key issues relating to services marketing, e-marketing and strategic marketing are also canvassed.

Antirequisites: BSB116
Equivalents: CTB126
Credit points: 12
Contact hours: 4 per week
Campus: Gardens Point and Caboolture
Teaching period: 2010 SEM-1, 2010 SEM-2 and 2010 SUM

HMB110 INTRODUCTION TO EXERCISE AND MOVEMENT SCIENCE
This unit introduces students to the field of exercise and movement science and allows students to develop knowledge and academic skills required both for undergraduate study and professional practice. Students will undertake structured tutorial activities on selected topics in exercise and movement science that include measurement and observation, analysis, and the preparation of reports.

Credit points: 12
Teaching period: 2010 SEM-1

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: 2010 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: 2010 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:** 2010 SEM-1

**HMB272 BIOMECHANICS**

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

**HMB273 EXERCISE PHYSIOLOGY 1**

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

Students wishing to enrol up to the beginning of January will need to email enquiries@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:** LSB131 or LSB255  
**Credit points:** 12  
**Contact hours:** 4 per week  
**Campus:** Kelvin Grove  
**Teaching period:** 2010 SEM-1

**HMB275 EXERCISE AND SPORT PSYCHOLOGY**

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

**HMB276 RESEARCH IN HUMAN MOVEMENT**

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

**HMB277 EXERCISE AND SPORT NUTRITION**

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

**HMB282 RESISTANCE TRAINING**

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

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

HMB371 MOTOR CONTROL AND LEARNING 2
This is an advanced unit which provides an in-depth view of theories and concepts in motor learning and control; how we control actions in both everyday and skilled behaviours, and how this capability is acquired. This course provides a multidisciplinary perspective, drawing on research from psychology, neuroscience, biomechanics, robotics, neural networks and medicine. The unit is organised around the theme of sensorimotor integration as related to posture and balance, locomotion and arm movements such as reaching, grasping and pointing.
**Prerequisites:** HMB271  **Credit points:** 12  **Contact hours:** 4 per week  **Campus:** Kelvin Grove  **Teaching period:** 2010 SEM-2

HMB376 MOTOR DEVELOPMENT IN CHILDREN
This unit includes the theoretical perspective of normal and abnormal motor development, incorporating maturational, descriptive and behavioural aspects and the underlying sensory, perceptual, neurological and cognitive changes which influence motor development in children. A theoretical understanding of developmental differences and development delay in children with intellectual, sensory or physical disability. Experience is obtained in developmental and adapted physical activity programs.
**Credit points:** 12  **Contact hours:** 4 per week  **Campus:** Kelvin Grove  **Teaching period:** 2010 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  **Teaching period:** 2010 SEM-1

HMB381 FUNCTIONAL ANATOMY 2
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

HMB382 PRINCIPLES OF EXERCISE PRESCRIPTION
In this unit, students examine the physiological principles and methods used in training and conditioning programs at all levels of physical activity. The integration of fitness assessment and exercise prescription is a major component of the unit, introducing the student to these requirements in the context of aerobic conditioning, resistance training, weight loss and flexibility. There is a strong emphasis on putting theory into practice, including the development and utilisation of appropriate practical skills in both fitness assessment and exercise prescription.
**Prerequisites:** HMB273 and HMB282  **Credit points:** 12  **Contact hours:** 4 per week  **Campus:** Kelvin Grove  **Teaching period:** 2010 SEM-1
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  Teaching period: 2010 SEM-2

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

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.
Prerequisites: HMB470  Credit points: 36  Campus: Kelvin Grove  Teaching period: 2010 SEM-1 and 2010 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  Teaching period: 2010 SEM-2

LSB111 UNDERSTANDING DISEASE CONCEPTS
This unit introduces the structure and function of the body, reviews the body systems and links those to mechanisms of disease. Systems and topics covered are: integumentary, skeletal, muscular, nervous, endocrine, blood, heart and circulation, lymphatic, immune, respiratory, digestive (including nutrition and metabolism), urinary, reproductive, concepts of growth and development, genetics. Examples of diseases introduced are: heart disease and hypertension, cancers (lung, breast, skin, colon, prostate, testicular, cervical), diabetes, depression, Parkinson's disease, asthma and chronic obstructive lung diseases.
Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2010 SEM-1

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: 2010 SEM-1

LSB231 PHYSIOLOGY
This unit covers the general physiological principles such as homeostasis and how all systems in the body contribute to it. Topics include cells, transport processes, cardiovascular system, cardiac electrical activity, cardiac output, regulation of blood pressure, respiratory system, endocrine system, pulmonary ventilation and its function.
Antirequisites: LSB250  Equivalents: LSB245  Credit points: 12  Contact hours: 4 per week  Campus: Gardens Point  Teaching period: 2010 SEM-2

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: LQB488  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

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

**PUB220 MEDICAL TERMINOLOGY**

This unit explores the language of medicine and analyses medical terms into Latin and Greek word roots, prefixes, suffixes and combining forms. Medical terms which relate to specific body systems are defined, spelled and pronounced accurately. Common abbreviations and symbols used in medicine are identified. Abstracts from patient records are explained and interpreted in non-technical language.

**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Kelvin Grove

**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:** 2010 SEM-1 and 2010 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:** 2010 SEM-1

**PUB332 SUSTAINABLE ENVIRONMENTS FOR HEALTH**

**Antirequisites:** PUB107  
**Credit points:** 12  
**Teaching period:** 2010 SEM-1

**PYB007 INTERPERSONAL PROCESSES AND SKILLS**

Psychology is generally a people-based profession with many positions involving not only understanding and testing people but communicating with them. More broadly however in most areas of modern work, and indeed within personal relationships, people need developed interpersonal skills and the ability to conceptualise interactive processes. The microskills for communication are also the foundation for helping relationships and counselling.

**Antirequisites:** PYB074, HHB113, PYB111  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Gardens Point and Kelvin Grove  
**Teaching period:** 2010 SEM-1 and 2010 SEM-2

**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 counselling in clinical settings requiring psychotherapeutic intervention, and other modes of delivery such as couple, family or group work.

**Prerequisites:** PYB007 or PYB074 or HHB113 or SWB104 or PYB111 or PUB209  
**Credit points:** 12  
**Contact hours:** 3 per week  
**Campus:** Kelvin Grove  
**Teaching period:** 2010 SEM-2

**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:** SCB111, SCB121  
**Credit points:** 12  
**Contact hours:** 5 per week  
**Campus:** Gardens Point  
**Teaching period:** 2010 SEM-1