

# Physiotherapy

Students will need to allow time for self-directed learning. The following hours are given as minimum requirements: one hour pre/post reading for lectures, two hours per hour of tutorial sessions and two hours extra per week for practical classes.

Third and fourth year students will need to spend approximately two hours per day in study and at least two extra hours per week practising clinical skills.

## First year

### 513-111 Principles of Biomedical Science

**Credit points:** 37.5

**Coordinator:** Assoc Prof G Webb

**Contact:** Ninety hours lectures, 22 hours problem-based learning tutorials, 30 hours practical classes (*Semester 1*).

**Description:** The major objectives are to gain an understanding of the principles of whole body structure and function of the human body. This will be addressed at the levels of organ systems, tissues, cells and molecules. The scientific basis of the following topics will be discussed: whole body organisation including basic anatomy, roles of the major organ systems, functional organisation of cells and their specific organelles, characteristics of specialised cells, structure-function characteristics of major biological molecules including carbohydrates, lipids, proteins, enzymes and DNA, the biochemical basis of complex processes such as homeostasis, reproduction and inheritance, growth and development, defence against infectious agents, pathological changes, ageing and death.

**Assessment:** Mid-semester test(s) (30%), problem-based learning tutor assessment (10%), practical class examination (15%), two end-of-semester examinations up to 6 hours (45%).

### 513-110 Physiotherapy 1

**Credit points:** 12.5

**Coordinator:** Dr L Remedios

**Contact:** Twenty-four hours lectures, 12 hours problem-based learning, 36 hours practical classes, 12 hours clinical practice (*Semester 1*).

**Description:** Physiotherapy 1 is the first component of a series of integrated subjects which will continue through Semesters 1 to 4.

The objectives for Semester 1 are to develop an understanding of the theory and practice of physiotherapy within three themes: communication skills, human movement and clinical practice.

Content areas include mechanics of human movement, therapeutic techniques, mechanics of lifting, motor skill learning, types of muscle action, and the mechanical and physiological factors affecting the contribution of a muscle to a functional activity. These will all include aspects across the life span. Students will be introduced to the structure of physiotherapy practice, ethical responsibilities to patients, colleagues and the community, health belief models, communication and interviewing skills. The clinical skill development will be undertaken in a context of professional practice and will incorporate appropriate experiential teaching and learning paradigms. Students must show evidence of having satisfactorily completed a Senior First Aid Level 2 (or equivalent) course prior to commencing Physiotherapy 3.

**Assessment:** Assignment during semester (10%), end-of-semester examination up to two hours (60%), practical examinations, presentations and skills examinations (25%), tutors assessment (5%), clinical attendance (hurdle requirement).

### 513-120 Physiotherapy 2

**Credit points:** 25

**Coordinator:** Dr L Remedios

**Contact:** Forty-two hours lectures, 35 hours problem-based learning, 56 hours practical classes, 14 hours clinical practice (*Semester 2*).

**Description:** This integrated subject is a continuation of Physiotherapy 1.

The objectives for Semester 2 are to further develop the study of the theory and practice of physiotherapy within the three themes: communication skills, human movement and clinical practice. Concepts of normality and abnormality in relation to the human mind, the role of motivation and compliance in physiotherapy practice and further issues of health ethics and evidence-based physiotherapy practice will also be examined.

Content areas include regional structure and function in normal and pathological states and scientific bases of soft tissue injuries and biomechanics of these tissues. Theory and practice of assessment and management of musculoskeletal injury will be covered including manual assessment, treatment including exercise prescription and movement analysis of normal and injured

individuals. Introductory electrotherapy will be commenced with safety procedures for the practical application of electrotherapeutic agents being emphasised. Teaching motivating patients, physical and psychological interactions in illness and injury development and the structure of physiotherapy practice will be included. The clinical practice component will address the application of the above principles in a clinical environment across the life span.

**Assessment:** Written material up to 1500 words which may include essays, projects or critical appraisal of literature (15%), end-of-semester written examination two 2-hour papers (40%), practical examinations which may include video making, presentations and clinical skills (35%), tutors assessment (10%), clinical attendance (hurdle requirement), participation in two research projects (hurdle requirement).

### 513-121 Musculoskeletal System

**Credit points:** 25

**Coordinator:** Assoc Prof G Webb

**Contact:** Ninety-four hours lectures, 56 hours practical/tutorial classes (*Semester 2*).

**Description:** The objectives for this subject are to gain an understanding of the structure, function and relationships of bone, muscle, soft tissues and joints, the pathologic processes affecting these and the processes of repair and healing. The subject will comprise the macroscopic and microscopic appearance of skin, fascia and skeletal muscle, bone, synovial and fibrous joints, nerves and vessels and the regional, radiological, and applied anatomy of the back, upper limb, abdomen, pelvis, and lower limb. The exposure of anatomical structures and regions and the appearance of normal structures on radiographs will be studied, and cross-sections of the body at important levels will be obtained via dissection. The structure, function and metabolism of muscle and soft tissues at anatomical, cellular and molecular levels and the pathological processes that may impair these tissues and the neuromuscular control mechanism of muscle action will be incorporated. The pharmacology of auto-oids, anti-inflammatory drugs and immunosuppressant drugs will be integrated.

**Assessment:** Three quizzes up to one hour in duration during the semester (30%), end-of-semester written examinations up to six hours (50%), practical examination (20%).

## Second year

### 513-210 Physiotherapy 3

**Credit points:** 25

**Coordinator:** Ms M Webster

**Contact:** Forty-two hours lectures, 35 hours problem-based learning, 56 hours practical classes, 14 hours clinical practice (*Semester 1*).

**Description:** This integrated subject continues on from Physiotherapy 1 and 2. The major themes of communication skills, human movement and clinical practice continue. Concepts of health ethics, evidence-based physiotherapy practice; research methodology, clinical reasoning and decision making will be explored. Emphasis will be on human movement development across the life span and the development of safe, effective practice.

Content areas include regional and vertebral structure and function in normal and pathological states; introduction to cardiorespiratory physiotherapy assessment; theory and practice of assessment and management of soft tissue injuries and other pathologies. The rationale for the use of intervention strategies such as exercise and exercise prescription, electrotherapeutic equipment, soft tissue massage and facilitation of movement will be explored. Issues relating to the mechanisms of pain and its management will be discussed. Normal and pathological development of the child from birth to adolescence will be examined. Students will apply their theory and practice in clinical placements.

**Assessment:** Written assignments of not more than 2500 words including essays, project work and critical appraisal of scientific literature (15%), tutor assessment (10%), practical examinations, which may include video making, presentations and clinical skills examinations (35%), written examinations up to four hours (40%), clinical attendance (hurdle requirement).

### 513-211 Cardiorespiratory Systems

**Credit points:** 25

**Coordinator:** Dr L Denehy

**Contact:** Sixty-two hours lectures, 40 hours problem-based learning, 20 hours practical classes (*Semester 1*).

**Description:** The objectives of this subject are to enable the student to gain an understanding of the integrated function of the cardiorespiratory system, the mechanisms and control of gas exchange and acid-based metabolism, cardiorespiratory homeostatic and adaptive mechanisms in humans and the mecha-

nisms of pathological processes leading to disease of the cardiorespiratory system and cardiorespiratory responses to exercise.

Content includes normal anatomy and development of the cardiovascular and respiratory systems, electrophysiology of the heart, measurement and assessment of cardiac and respiratory function, the principles of physics relating to blood flow, respiration and cardiorespiratory investigations, the mechanisms of ventilation, gas exchange and oxygen carriage in the lungs, at the periphery and at a cellular level, acid-base homeostasis, mechanisms of action of endogenous messengers and drugs on the cardiac and respiratory systems, mechanisms of blood pressure control and its disturbance.

**Assessment:** Mid-semester quiz (15%), problem-based learning tutor assessment (10%), end of semester examinations up to six hours (60%), practical examination (15%).

**Recommended texts:** R Rhoades and R Pflanzner, *Human Physiology*, 3rd edition, Saunders, 1996. • SK Powers and ET Howley, *Exercise Physiology: Theory and Application to Fitness and Performance*, 2nd edition, WC Brown and Benchmark, 1994.

### 513-220 Physiotherapy 4

**Credit points:** 25

**Coordinator:** Ms M Webster

**Contact:** Forty-two hours lectures, 35 hours problem-based learning, 56 hours practical classes, 14 hours clinical practice (*Semester 2*).

**Description:** This integrated subject continues on from the first three semesters. The major themes of communication skills, human movement and clinical practice continue. Concepts of health ethics, evidence-based physiotherapy practice, research methodology, clinical reasoning and decision-making will be further explored. Emphasis will be on human movement development across the life span and the development of safe, effective practice.

Content areas include peripheral vertebral structure and function in normal and pathological states; introduction to concepts of neurological physiotherapy; theory and practice of assessment and management of soft tissue injuries of the vertebral region; the rationale for the use of intervention strategies such as exercise and exercise prescription, electrotherapeutic equipment, soft tissue massage and facilitation of movement, hydrotherapy, and the application of selected splints. Mechanisms of pain and its management will be continued. Students will apply their theory and practice in clinical placements.

**Assessment:** Mid-semester test(s) (5%), written assignments of not more than 1500 words (10%), tutor assessment (10%), practical examinations (35%), written examinations up to four hours (40%), clinical attendance (hurdle requirement).

### 513-221 Sensorimotor Control Systems

**Credit points:** 25

**Coordinator:** Ms C Martin

**Contact:** Sixty-two hours lectures, 32 hours problem-based learning, 28 hours practical classes (*Semester 2*).

**Description:** This subject comprises two major areas of study: neuroscience and vertebral anatomy. The objective of this subject is to enable students to develop an understanding of the structure/function relationships in the central nervous system, spinal cord and vertebral column, and the effect of ageing and pathology on functioning of the nervous system and spine. Content areas included are the development and organisation of the nervous system, brain-stem function, motor-control systems, sensory systems, the biochemical and pharmacological mechanisms of the central nervous system, and the structure and function of the vertebral column.

**Assessment:** Mid-semester quiz (10%), tutor assessment (5%), written examinations up to four hours (65%), practical examination (20%).

## Third year

### 513-301 Musculoskeletal Physiotherapy 1

**Credit points:** 25

**Coordinator:** Ms D Virtue

**Contact:** Equivalent of 114 hours throughout third year. 76 hours lectures, tutorials, practical classes and self-directed learning. Six weeks (24 hours per week) clinical placement (*Year long*).

**Description:** This subject covers the aetiology, medical and surgical management and physiotherapy treatment of common musculoskeletal disorders. Content covered includes fractures and associated soft tissue injuries; arthritic conditions; joint replacements and vertebral disorders. By completion of third-year, students should possess a sound theoretical knowledge of the above-mentioned conditions and their management; the ability to perform an appropriate subjective and objective examination; the capacity to plan and the skills to implement appropriate, effective physiotherapy treatment of these patients; the ability to monitor patient response and to modify or progress

treatment appropriately; an appreciation of the importance of good written and verbal communication with both patients and other health professionals; an awareness of the paramount importance of patient safety at all times; and a knowledge of the role of other health care professionals involved in patient care, and the importance of the team approach to patient management.

**Assessment:** Clinical: continuous clinical assessment (40%), clinical examination (10%). Theory: case presentation (5%), end of theory block 2-hour written examination (20%), 2-hour written examination at the end of the year (25%).

Students must pass both clinical and theoretical components of the assessment in order to pass the subject.

**Prescribed texts:** Maitland G, *Maitland's Vertebral Manipulation*, Oxford Butterworth Heinemann, 2001. • McRae R and Esser M, *Practical Fracture Treatment*, New York, Churchill Livingstone, 2002.

### 513-302 Neurological Physiotherapy 1

**Credit points:** 25

**Coordinator:** Ms K Miller

**Contact:** Equivalent of 114 hours throughout third year. 76 hours lectures, tutorials, practical classes and self-directed learning. Six weeks (24 hours per week) clinical placement (*Year long*).

**Description:** This subject introduces a framework for clinical reasoning in the assessment and treatment of individuals with neurological and neurosurgical conditions. The emphasis of this subject is development of clinical reasoning in the assessment of neurological patients including the confirmation of likely contributing factors to activity limitations and participation restrictions, and the establishment of prioritized patient-centered problem lists and treatment goals. Physiotherapy management to address identified problems and treatment goals in neurological patients will be devised and applied at a basic level using theories of motor control, motor learning, task specific training and facilitation with consideration of the patients' social and cultural situation and the team management plan for the patient. The clinical component of this subject integrates theoretical knowledge with clinical reasoning and practical application skills providing students with opportunities to develop high level communication skills and an awareness of the role of the physiotherapist within the multidisciplinary rehabilitation team and the medical system.

**Assessment:** Clinical: continuous clinical assessment (40%), clinical examination (10%). Theory: Case presentation (5%). Semester 1 (2-hour) written examination at the end of the first theory block (20%). Semester 2 (2-hour) written examination at the end of the year (25%).

Students must pass both clinical and theoretical components of the assessment in order to pass the subject.

**Prescribed texts:** Carr J and Shepherd R, *Neurological Rehabilitation: Optimizing Motor Performance*, Butterworth Heinemann, Oxford, 1998.

### 513-303 Cardiorespiratory Physiotherapy 1

**Credit points:** 25

**Coordinator:** Ms K Nitschke

**Contact:** Equivalent of 114 hours throughout third year. 76 hours lectures, tutorials, practical classes and self-directed learning. Six weeks (24 hours per week) clinical placement (*Year long*).

**Description:** On completion of this subject, students should comprehend the mechanisms by which the pathophysiology, history and physical examination of medical and surgical cardiothoracic conditions are integrated to produce a problem list from which an effective physiotherapy management plan is derived. Students will have developed skills in managing uncomplicated medical and surgical patients including accurate assessment, performance of basic techniques and the ability to safely implement and modify these as necessary. The theoretical component will cover the evidence for and the use of cardiothoracic techniques, the role of exercise in both respiratory and cardiac conditions and the management of paediatric cardiothoracic conditions. It will build on theory gained in Cardiorespiratory Systems in second year. Equipment used in the management of cardiothoracic patients will also be studied. Clinical practice will emphasise performance of assessment and treatment skills and an ability to formulate basic management plans for medical and surgical patients.

**Assessment:** Clinical: continuous clinical assessment (40%), clinical examination (10%). Theory: case presentation (5%), end of theory block 2-hour written examination (20%), 2-hour written examination at the end of the year (25%).

Students must pass both clinical and theoretical components of the assessment in order to pass the subject.

**Prescribed texts:** JA Pryor and SA Prasad, *Physiotherapy for Respiratory and Cardiac Problems - Adults and Paediatrics*, 3rd edn, Churchill Livingstone, 2002. • JB Wes, *Respiratory Physiology - The Essentials*, 6th edn, Lippincott, Williams and Wilkins 2000.

**513-304 Physiotherapy Practice 1****Credit points:** 12.5**Coordinator:** Ms D Virtue**Contact:** 60 hours throughout third year (*Year long*).

**Description:** This subject examines the roles and responsibilities of the physiotherapist as a health care provider and the practice of physiotherapy within the health care system. *Professional Issues* includes management and presentation skills; *Occupational Health and Ergonomics* addresses issues of risk identification and management in the workplace; *Principles of Health Promotion and Education* looks at the wider issues of health promotion in populations; and *Life Span Movement Disorders* introduces the role of the physiotherapist where there is lifelong disablement, developmental delay and acquired disability.

**Assessment:** Three written assignments of no more than 2000 words each (60%). Presentations: oral/poster (40%).

**513-306 Evidence Based Physiotherapy Practice 1****Credit points:** 12.5**Coordinator:** Dr P Bragge**Contact:** Thirty hours of lectures, tutorials and computer-based modules throughout third year (*Year long*).

**Description:** This subject introduces the discipline of evidence-based physiotherapy practice. The course content covers quantitative research methodology, research design, evaluation of evidence for physiotherapy practice and introduces the use of clinical guidelines. On completion of this subject, students should be able to identify different quantitative methodologies, comprehend the framework and practice of evidence-based physiotherapy and have developed skills in the searching for and evaluation of evidence. Students will also have commenced the development of clinical guidelines for a specific clinical question as a basis for work to be undertaken in Evidence-based Physiotherapy Practice 2 in Year 4.

**Assessment:** Critical appraisal assignment of 2000 words (50%), clinical guidelines assignment: development of a systematic review protocol (including framing of clinical question, search strategy) 2000 words (50%).

**Prescribed texts:** BM Melnyk and E Fineout-Overholt, *Evidence-based practice in nursing and healthcare*, Philadelphia: Lippincott, Williams and Wilkins, 2005.

**Fourth year****513-401 Cardiorespiratory Physiotherapy 2****Credit points:** 12.5**Coordinator:** Dr L Denehy**Contact:** Equivalent of 60 hours throughout fourth year, 24 hours lectures and seminars and self-directed learning, four weeks (28 hours per week) clinical placement (*Year long*).

**Description:** On completion of this subject, students should comprehend the theory relevant to diagnostic procedures used in cardiothoracic physiotherapy assessment, the theory of ventilation and intensive care monitoring and management techniques used for critically ill patients. Students will have developed further skills in cardiothoracic assessment and the selection and application of treatment techniques, including those used in specialised unit settings. Students will have developed skills in the clinical decision-making process, leading to development of comprehensive treatment plans for most patients treated by physiotherapists. The theoretical component will build on knowledge of respiratory and cardiovascular physiology and studies undertaken in Cardiothoracic Physiotherapy 1.

**Assessment:** Clinical: continuous clinical assessment (50%). Theory: case presentation (10%), 2-hour written examination at the end of the year (40%). Students must pass both clinical and theoretical components of the assessment in order to pass the subject.

**Prescribed texts:** JA Pryor and SA Prasad, *Physiotherapy for Respiratory and Cardiac Problems - Adults and Paediatrics*, 3rd edn, Churchill Livingstone, 2002. • AD Bersten, *Oh's Intensive Care Manual*, 5th edn, Butterworth Heinemann, 2003.

**513-405 Musculoskeletal Physiotherapy 2****Credit points:** 12.5**Coordinator:** Mr D Kelly**Contact:** Equivalent of 60 hours throughout fourth year, 24 hours lectures and practical classes and self-directed learning, four weeks (28 hours per week) clinical placement (*Year long*).

**Description:** Students will build on their previous musculoskeletal knowledge to include more complex and chronic pathologies as well as vertebral disorders. Students should have the opportunity to perform independent

assessments and demonstrate the ability to make differential diagnosis decisions; know the indications and contra-indications for, and demonstrate the safe use of, high velocity thrust treatment techniques; independently select and execute appropriate treatment techniques; be able to evaluate treatment effectiveness and to modify treatment as necessary. Students will be expected to organise and manage an appropriate workload, formulate and implement appropriate long- and short-term goals including discharge planning. Students will also be given the opportunity to understand the role of a physiotherapist in multidisciplinary clinical settings and apply the above principles to patients in a primary contact environment.

**Assessment:** Clinical: continuous clinical assessment (50%). Theory: case presentation (10%), 2-hour written examination at the end of the year (40%). Skills mastery in musculoskeletal physiotherapy (hurdle).

Students must pass both clinical and theoretical components of the assessment in order to pass the subject.

**Recommended texts:** Boyling JD, Jull GA (eds), *Grieve's Modern Manual Therapy: The Vertebral Column*, 3rd edn, Elsevier Churchill Livingstone, Edinburgh, 2004. • Brukner P, Khan K, *Clinical Sports Medicine*, 3rd edn, McGraw-Hill, North Ryde, New South Wales, 2007. • CC Goodman, TEK Snyder, *Differential Diagnosis in Physical Therapy*, 3rd edn, WB Saunders Company, Philadelphia, 2000. • GD Maitland, E Hengeveld, K Banks, and K English (eds), *Maitland's Vertebral Manipulation*, 7th edn, Elsevier Butterworth Heinemann, Edinburgh, 2005. • E Hengeveld, K Barks (eds), *Maitland's Peripheral Manipulation*, 4th edn, Elsevier Butterworth Heinemann, Edinburgh, 2005. • Kolt GS, Snyder-Mackler L (eds), *Physical Therapies in Sport and Exercise*, Churchill-Livingstone, China, 2003. • NJ Petty, *Neuromusculoskeletal Examination and Assessment: A handbook for therapists*, 3rd edn, Elsevier Churchill Livingstone, Edinburgh, 2006.

**513-406 Neurological Physiotherapy 2****Credit points:** 12.5**Coordinator:** Ms C Martin**Contact:** Equivalent of 60 hours throughout fourth year, 24 hours lectures, practical classes and self-directed learning, four weeks (28 hours per week) clinical placement (*Year long*).

**Description:** This course will address the impact of neurological disability on an individual and their family and explore the complex physical, psychological and social issues involved in rehabilitation. This unit will investigate advanced treatment techniques and complex patient presentations. Content includes neurological rehabilitation and discharge planning issues, assessment and treatment of patients, evaluation of treatment effectiveness. Clinical decision-making, treatment planning, record keeping, time management and team participation will be encouraged. The theoretical framework for various treatment methods will be discussed with emphasis on measurement of outcome, both qualitative and quantitative. Justification of treatment selection based on available evidence and efficacy of treatments implemented will be evaluated. Team participation, timely and effective communication (both verbal and written) with patients, families and other health professionals will be encouraged.

**Assessment:** Clinical: continuous clinical assessment (50%). Theory: case presentation (10%), 2-hour written examination at the end of the year (40%). Students must pass both clinical and theoretical components of the assessment in order to pass the subject.

**Prescribed texts:** J Carr and R Shepherd, *Neurological Rehabilitation: Optimizing Motor Performance*, Butterworth Heinemann, 1998.

**513-404 Gerontology****Credit points:** 12.5**Coordinator:** Assoc Prof G Webb & Ms K Gould**Contact:** Equivalent of 60 hours throughout fourth year, 24 hours lectures and tutorials and self-directed learning, four weeks (28 hours per week) clinical placement (*Year long*).

**Description:** Students should comprehend the implications of an aging population on health delivery and the community: changes occurring in normal aging, pathologies associated with aging; heterogeneity of the elderly population; multiple pathologies; multidisciplinary management teams; evaluation of physiotherapy management emphasising assessment and outcome measures; the need to identify advances in gerontology and relate these to practice. Knowledge of the role of physiotherapists and other health team members in management, agencies delivering aged care services and sources of specialised equipment is developed. The tutorial program includes balance and postural control, gait in the elderly, dementia, incontinence, aged care policy, service networks, pain in the elderly and amputees.

**Assessment:** Clinic: continuous clinical assessment (60%). Theory: case presentation (15%), written assignment of no more than 2000 words (25%).

Students must pass the clinical component in order to pass the subject.

**513-407 Paediatrics****Credit points:** 12.5**Coordinator:** Ms S Rogers**Contact:** Equivalent of 60 hours throughout fourth year, 24 hours lectures and tutorials and self-directed learning, four weeks (28 hours per week) clinical placement (*Year long*).**Description:** Students will build on knowledge of physical and psychological development of children and adolescents from previous subjects. On completion of this subject, students should comprehend clinical management of children presenting with developmental delays or disabilities and/or movement problems as related to musculoskeletal, cardiothoracic and neurological conditions. Students will also learn to take into account the family perspective in respect to having a child with an illness or disability. The student should appreciate the difference in management between children and adults, the specific needs and the complex nature of children with long-term and/or multiple problems and the significance of the grieving process within the families of children with life-threatening illness or long-term disabilities. Paediatric clinical placements can be hospital or community-based.**Assessment:** Clinic: continuous clinical assessment (50%). Theory: case, topic or small project presentation (10%), written examination at the end of the year (40%).

Students must pass the clinical component in order to pass the subject.

**513-410 Physiotherapy Practice 2****Credit points:** 12.5**Coordinator:** Dr C Delany**Contact:** Twenty-four hours seminars, tutorials and self-directed learning (*Year long*).**Description:** This subject encourages students to appreciate the diversity and depth of physiotherapy practice, policies and processes of the health care system, and to review physiotherapy clinical practice from multiple perspectives. These perspectives include evidence presented in the current literature, perspectives of key stakeholders, including patients, funding bodies, practising physiotherapists and students themselves. Subject areas comprise women's health, legal and ethical issues, practice management and promotion, physiotherapy and psychology, physiotherapy for victims of abuse and torture, public and government health policy and employment in physiotherapy. Students will be given an opportunity to examine issues, learn skills and discuss strategies that can assist in addressing socio-cultural, legal and ethical facets of physiotherapy practice.**Assessment:** Women's Health written essay of 1500 words (20%), oral/poster presentation (35%), professional issues/ethics written assignment of 2,500 words (45%).**513-413 Evidence Based Physiotherapy Practice 2****Credit points:** 12.5**Coordinator:** Dr P Bragge**Contact:** Thirty hours of lectures, tutorials and computer-based modules (*Year long*).**Description:** This subject builds on and integrates the content of Evidence-Based Physiotherapy Practice 1 to develop a sound basis for evidence-based physiotherapy practice. The course covers the interpretation of basic statistics, which are frequently used in physiotherapy evidence, and advanced concepts regarding clinical guidelines. On completion of this subject, students should have developed skills in interpreting basic statistics, the ability to undertake systematic literature review and development of a clinical guideline, and skills in written scientific communication.**Assessment:** Interpretation of statistical analysis, multiple choice questions (25%), systematic literature review 2000 words (40%), clinical guidelines one-page poster 1500 words (35%)**Prescribed texts:** LG Portney and MP Watkins, *Foundations of clinical research: Applications to practice*, 2nd edn, Prentice-Hall, 2000.**513-414 Exercise Prescription & Health Promotion****Credit points:** 6.25**Coordinator:** Mr A Bryant**Contact:** Thirty-six hours lectures, practical classes and self-directed learning (*Semester 1*).**Description:** This subject allows students to develop skills in prescribing and delivering group exercise classes to promote health and fitness for those within the community with specific needs. Students will learn the educative and health promotion role of the physiotherapist in promoting safe participation in exercise in the community for all people across the lifespan. They will explore the evidence available for the effectiveness of exercise programs in the community.**Assessment:** Exercise class presentation/poster (50%), written assignment of no more than 2000 words (50%).**513-415 Elective Studies****Credit points:** 6.25**Coordinator:** Assoc Prof G Webb**Contact:** Three four-week elective placements (28 hours per week) (*Year long*).**Description:** There are three periods of elective study in the physiotherapy program: Global, Clinical and Professional Development electives. The key objectives of these units are to provide students with the opportunity to broaden and deepen their experience of physiotherapy practice in a number of the following ways: the rationale of selected physiotherapy approaches to management; the application of physiotherapy management principles to health education and patient treatment; the role of other health professionals and members of the community in the outcome of physiotherapy management; the role of family, community members and Government instrumentalities in health education and patient care; to enable the student to appreciate the diversity and depth of physiotherapy as a profession; the social, cultural and political context of health care practice in the area; implications of resource differences and the need for planning; the use of initiative and improvisation in providing physiotherapy care; the need for consultation and planning. Placements for these electives are in a variety of settings including hospitals, community and educational organisations, sporting bodies and private practices.**Assessment:** Clinical examination (60%), Objective Structured Clinical Examination (OSCE) (40%).

Students are required to reach a satisfactory pass in each of their elective placements based on the report by the supervisor and the presentation by the student.