THE UNIVERSITY of ADELAIDE

Undergraduate Courses

2011

Contents

FACULTY OF HEALTH SCIENCES

Anaesthesia and Intesive Care

ANAES&IC 4000AHO/BHO

Honours Anaesthesia and Intensive Care Part 1 & 2

24 units - full year

Restriction: Available to B Med Sc students only, or appropriately qualified B Health Sc students, or by permission of the Head of School

Assessment: to be advised at start of year

Students requiring further information concerning syllabuses and work required for the Honours degree of Bachelor of Medical Science are advised to consult the Head of the appropriate department as early as possible.

ANAT SC 1102

Human Biology IA

3 units - semester 1

Up to 6 hours per week

Restriction: Available to B Health Sci, B Psych (Hons) & B Psych Sci students only, or by permission of Course Coordinator

Available for Non-Award Study

Assessment: Literature & laboratory based RSD - task, tutorial participation, written exam

Human Biology is the study of human life. It incorporates a variety of disciplines and focuses on issues that affect humans at the individual, population and species levels. As well as introducing students to content, emphasis is placed on developing skills in research, critical analysis and communication of scientific information relevant to the study of humans. Human Biology IA specifically investigates the relationships between normal structure and function in human cells, tissues and organs, along with mechanisms that maintain homeostasis within an individual. The course materials are organised into 4 modules dealing with Level of Organisation, Support and Movement, Integration and Control, and Reproduction and Inheritance. The course does not assume prior knowledge of year 12 biology of chemistry.

Anatomical Sciences

ANAT SC 1103

Human Biology IB

3 units - semester 2

Up to 6 hours per week

Restriction: Available to B Health Sci, B Psych (Hons) & B Psych Sci students only, or by permission of Course Coordinator

Available for Non-Award Study

Assumed Knowledge: ANAT SC 1102

Assessment: Research-based assessment tasks during semester (scientific report & group-based poster & presentation) 40%, online quizzes & end of module tests 10%, end of semester written exam 45%

Human Biology is the study of human life. It incorporates a variety of disciplines and focuses on issues that affect humans at the individual, population and species levels. As well as introducing students to content, emphasis is placed on developing skills in research, critical analysis and communication of scientific information relevant to the study of humans. In Human Biology 1B, coverage of organ systems completes investigation of the structure and function of the human body. The course focus then shifts to factors that influence and shape human populations and the human species. Topics are organised into 5 modules: Scientific Reasoning and Methods, Body Fluids and Transport, Environmental Exchange, Human Evolution and Ecology, and Infection and Immunity. The Course does not assume prior knowledge of year 12 biology or chemistry.

ANAT SC 2109

Cells, Tissues & Development II

3 units - semester 1

Up to 6 hours per week

Restriction: Available to B Health Sci, B Psych (Hons) & B Psych Sci students only

Assumed Knowledge: ANAT SC 1102 & ANAT SC 1103

Incompatible: ANAT SC 2500

Assessment: mid-semester test, tutorial papers, seminars, slide description 40%, final written & practical exams 60%, - details provided at commencement of course

Cells, Tissues and Development builds upon the knowledge of basic tissues gained in Human Biology I. The course investigates the microscopic structure-function relationships of cells and tissues in blood and haemopoiesis, the respiratory, cardiovascular, lymphoid, renal, digestive, and endocrine systems. Topics in reproductive biology include the development of gametes, fertilization, early embryonic and placental development, assisted reproductive technology and contraceptive methods. Practical and tutorial sessions provide opportunities for visual investigation of material and expansion of concepts presented in the lectures as well as developing student skills in oral and written scientific presentations of topics in biomedical research.

ANAT SC 2200

Functional Human Anatomy II

3 units - semester 2

Up to 5 hours per week

Restriction: Available to B Health Sci, B Psych (Hons), B Psych Sci & B Soc Sci students only

Available for Non-Award Study

Assumed Knowledge: ANAT SC 1102 or equivalent

Assessment: multiple choice question tests (10%), project (20%), practical exams (25%), theory exam (45%)

Students will be introduced to the basic principles of gross anatomy and will study in detail the functional anatomy of the human musculoskeletal system. Teaching sessions will include lectures and practicals, the latter using prosected human material. In addition, students will be required to complete a project. The content will include detailed information on the anatomy of the lupper and ower limbs, vertebral column, and head/neck with emphasis on the musculoskeletal system as well as relevant parts of the nervous system. In addition, students will study the more advanced functional aspects of joint anatomy.

ANAT SC 2500

Cells and Tissues II

3 units - semester 1

Up to 6 hours per week

Assumed Knowledge: BIOLOGY 1101 & BIOLOGY 1201 or 1202

Assessment: mid-semester test, tutorial papers, seminars, slide description 40%, final written & practical exams 60%, - details provided at commencement of course

Cells and Tissues II considers the structure and function of cells and tissues of the mammalian body. Study of ultrastructural

characteristics of the typical mammalian cell is followed by consideration of the structure of tissues, organs and systems. The features of the cells, their arrangement and their intercellular products are considered with emphasis on the relationship between microscopic structure and function. Human examples are mainly used with some material from other mammalian species. Routine techniques used for the study of cells and tissues at the light and electron microscopic levels as well as the principles of microscopy are presented early in the course. Practicals have a problem-solving approach and illustrate topics covered in lectures. Tutorials form a large component of the continuous assessment and give students ongoing feedback information on their progress in the course. Students also participate in an oral presentation and written, referenced summary on a topic in structural cell biology.

ANAT SC 2501

Comparative Anatomy of Body Systems II

3 units - semester 2

Up to 6 hours per week

Restriction: Available to B Sc, B.Art/B Sc students only

Assumed Knowledge: BIOLOGY 1202 or equivalent

Incompatible: ANAT SC 2008

Assessment: Written examination, practical tests, dissection, project

This course studies structure and the basic functions of the body systems of vertebrates (i.e. cardiovascular, respiratory, musculoskeletal, digestive, reproductive, urinary and nervous systems), with special focus on how the structure has adapted in response to the functional requirements of the different habits and habitats (i.e. way of life and environment). Mammalian body systems are taught with reference to human systems.

The course consists of lectures (3 per week) and practicals (1 per week), in practicals, human and animal bones, dissected bodies or body parts will be used. In addition, animals (i.e. different vertebrate groups) will be dissected to learn the comparative anatomy of body systems.

This course has been recognised as part of the selection process for entry to certain courses, such as postgraduate medicine.

ANAT SC 3101

Anthropological and Forensic Anatomy III

3 units - semester 2

Restriction: Available to B Health Sc & B Sc students only, or by permission of the Head of School of the Course Coordinator

Assumed Knowledge: ANAT SC 2501 ANAT SC 2200 or equiv. approved by Course Coordinator or Head of Discipline

Incompatible: ANAT SC 3101

Assessment: 2 hour written exam 55%, research project: written component 40%, oral component 5%

The objectives of this course are to appreciate the biological nature of humans and to appreciate the biological variability of humans. Our evolutionary origins are discussed as well as place of humans in nature. Students will learn skills in anthropometric examination and in skeletal identification for forensic and archaeological purposes. Aspects of Biological Anthropology such as dental anthropology and paleopathology will also be presented. Students will be required to complete a research project and actively participate in seminars and discussion sessions. Lecture topics include: the place of humans in nature, hominid evolution and its mechanisms, recent human evolution and human evolutionary future, modern human biological variation, primatology, human population dynamics and ecology, human physical growth and development, osteology and forensic applications of anthropology. Research skills are learned in a problem based, self-directed mode.

ANAT SC 3102

Comparative Reproductive Biology of Mammals III

3 units - semester 1

Up to 6 hours per week

Assumed Knowledge: ANAT SC 2109 or ANAT SC 2500 or ANAT SC 2103 or ANAT SC 2105 or equiv

Assessment: Mid semester test 10%, written exam 60%, project/essay 25%, tutorial participation 5%

The course provides an overview of mammalian reproductive biology processes with an emphasis on the diversity of reproductive mechanisms that have evolved in eutherian, marsupial, and monotreme mammals. The topics include sex determination and sex differentiation, development of the gonads, gonadal ducts and external genitalia, the differentiation and dynamics of production of the male and female gametes together with changes that occur to the spermatozoon during transit of the male and female genital ducts. The cell and molecular biology of sperm-egg interactions and fertilisation are then given, followed by the processes involved in egg activation and differentiation of the early embryo. Macromorphological and cellular changes associated with implantation, placentation and lactation in various groups of mammals are then covered. This is followed by an overview of the causation of, and ways of overcoming, sub- and infertility in the human species. Finally an outline of the biological principles underlying contraceptive technology, and the application of assisted reproductive technology to the conservation of rare and endangered species of mammals is given. Students who undertake this course will obtain background knowledge that will ideally suit them for future courses in either reproductive health or in wildlife biology.

ANAT SC 3103

Integrative and Comparative Neuroanatomy III

3 units - semester 1

Up to 8 hours per week

Available for Non-Award Study

Assumed Knowledge: ANAT SC 2109 or ANAT SC 2500 or ANAT 2200 or ANAT SC 2501or equiv

Assessment: project (including seminar) 20%, practical exam 20%, written exam 60%

This course has as its base the functional anatomy of the human nervous system. It also deals with (i) the comparative morphology and evolution of the vertebrate central nervous system and (ii) the structure and function of sense organs and how sensory information is processed and integrated by the central nervous system. The human neuroanatomy component focuses on the main subdivisions of the brain and spinal cord, sensory and motor pathways, pain and thermoregulatory mechanisms and neural degeneration and regeneration. The comparative component will cover the functional morphology and evolution of visual and auditory reception and processing in different environments, extra-retinal photoreceptors and their role in circadian rhythms, and chemo-receptive mechanisms. Some lesser known sensory systems will be examined such as infrared receptors of snakes. Practicals will include a study of human and other vertebrate brains as well as a small dissection or analytical research project.

ANAT SC 3104

Structural Cell Biology III

3 units - semester 2

Up to 6 hours per week

Assumed Knowledge: ANAT SC 2104, ANAT SC 2105, ANAT SC 2103, ANAT SC 2102 or equivalent

Incompatible: 7997 (pre-2002)

Assessment: written 60%, practical/project/ presentation 40%

This course studies cell biology from a structural perspective, understanding the cell biological knowledge is intimately related to the investigative techniques and methods and the hypothesis being tested. Modern approaches to studying structural approaches to cell biology are emphasized. Topics include selected important aspects of cell function: trafficking, protein synthesis, cell reproduction and cell death. The resource material and some assessments for the course is predominately current scientific literature. Students will therefore be expected to develop and exhibit competence in evaluating scientific thinking in cell biology.

ANAT SC 3105

Limb Dissection

3 units - semester 2

Up to 3 hours per week

Restriction: Available to Level II MBBS students only

Assessment: Dissection 30%; knowledge - 2 hour written paper & oral assessment 70%

This course will involve a study of the functional anatomy of the limbs through dissection and the study of prosected specimens, radiographs and bones. Students will dissect upper and lower limbs. Students will work in groups of 4 and will be expected to do appropriate reading and preparation prior to the beginning of the dissection.

ANAT SC 3108

Applied Anatomy of Cranial Nerves by Dissection

3 units - semester 2

Up to 4 hours per week

Restriction: Available to Level II MBBS students only

Pre-Requisite(s): Level I MBBS

Assumed Knowledge: Level I MBBS core course

Assessment: Evaluation of quality of dissection 20%, mid-semester practical test 10%, end of semester practical exam 20% and end of semester theory examination 50%

The course aims to study the structure and function of the cranial nerves by dissection. It involves the study of the deep cranial nerve nuclei, intracerebral course of the nerves, superficial attachments to the brain surface, intracranial course, relations to the dura and foramina of the skull, extracranial course, distribution to structures in the head and neck, function of each nerve, the basis of clinical examination of various nerves and interpretation of deficits. The principal mode of learning is by dissection of the human body supported by a week overview lecture.

ANAT SC 3500

Ethics, Science and Society

3 units - semester 1 or semester 2

Up to 4 hours per week

Restriction: No previous enrolment in Ethics Sciences & Society 2106 or 3106

Pre-Requisite(s): Level I courses to the value of 12 units

Incompatible: ANAT SC 2106 or ANAT SC 3106

Assessment: case study assessment (written), paper/journal article critique, tutorial participation and presentation (tutor allocated), essay (written)

This course aims to develop students' awareness of the ethical and social challenges in the health sciences. It is suitable for health science, science, and humanities and social science students. Topic areas may include ethical analysis of the following: research practice; reproduction and reproductive technologies; genetics; animal and human experimentation; use of human bodies in research and teaching. The focus on these topical issues in modern science will be underpinned by an introduction to the philosophy of science and methods in bioethics.

Relevant NH&MRC codes are studied in detail.

Note: Enrolments in this course can be at either Level II or III - this is an advanced course for BA programs

ANAT SC 4000A/B

Honours Anatomical Sciences Part 1 & 2

24 units - full year

Pre-Requisite(s): Credit standard in appropriate Level III courses in Anatomical Sciences or other comparable biological courses - subject to discipline approval

Assessment: research project - critical literature review, thesis/journal article, research seminar and thesis defence 75%, components non related to the research project - grant proposal; seminar attendance and supervisor mark - 25%

The focus of Honours is to conduct a detailed research project under the guidance and supervision of an academic staff member(s). In addition, each student will also have regular contact with the Honours Coordinator. The Honours program is of 40 weeks duration and enrolments are in December/January for the February program. Prospective candidates should consult the Honours coordinator and the potential supervisor(s) towards the end of their final year of the degree program in order to secure a place in the Honours program. More information can be found at www.adelaide.edu.au/health/anat/students/honours.html

ANAT SC 5000A/B

Human Anatomy for Graduate Certificate Part 1 & 2

12 units - full year

Up to 10 hours per week

Restriction: Available to Grad Cert Anatomy students only

Pre-Requisite(s): Undergraduate degree which includes Biology or equivalent

Assessment: to be advised at start of year

This is a course of detailed human gross anatomy that permits students to gain an in-depth knowledge of systematic/regional gross anatomy by dissection of the human cadaver. The majority of coursework will be of a problem-based, self directed type as students will be given dissection tasks introducing them in depth to the structure of systems and all regions of the human body. During the last 2 months of the course each student will do a project which involves preparation of a display quality prosection and presentation of a lecture on the anatomy of the prosected part of the body.

Dentistry

DENT 1005AHO/BHO

Dental Science and Practice I Part 1 & 2

24 units - full year

Up to 24 hours per week

Restriction: Available to BDS students only

Assessment: Formative assessment tasks, assignments, short tests, practical exercises, short answer integrated exams

From a patient care focus, this stream introduces students to the oral cavity and practice of dentistry and provides a foundation for understanding the normal structure and function of the oral cavity, patient management and dentistry as a career. By using problem-based learning packages that present a range of practice situations,

students begin to develop patient investigation skills and an integrated knowledge base. The stream emphasises the scientific basis of dentistry; introduces new developments and outlines important ethical issues in the health professions; develops individual and group learning skills, describes the normal appearance of oral soft tissues, the morphology and development of the teeth and main features of the masticatory system as a basis for the analysis of patients' oral health and disease; discusses the nature, aetiology and prevention of common dental diseases at both individual and community level; introduces students to behavioural sciences and psychology applied to dentistry; provides exposure to the influences on dental practice and begins an examination of contexts in which dentists work.

Topics include: oral surface features; morphology of the teeth; tooth emergence and calcification; introduction to dental occlusion, radiographic anatomy; nature and distribution of dental diseases; preventive dentistry; fear and anxiety in dentistry; management and motivation of dental patients; dentist-patient communication; behavioural consequences of oral diseases; community dental health issues; dental education and the shaping of the professional; the professional environment; the dentist's role; career pathways; adaptation to change and the possible future for dentistry.

DENT 2005AHO/BHO

Dental Science and Practice II Part 1 & 2

24 units - full year

Up to 28 hours per week

Restriction: Available to BDS students only

Pre-Requisite(s): DENT 1005A/BHO

Assessment: Formative assessment tasks, assignments, short tests, practical exercises, short answer integrated exams

This stream has a patient care focus and builds on the knowledge acquired in first year. The aim is to develop an understanding of the changes that occur to the oral cavity when an imbalance develops in the oral ecosystem. The emphasis will be to maintain a healthy balance through prevention and minimal restoration where necessary.

By working through a series of interactive learning activities, students will develop and integrate knowledge relating to evidence-based patient care including clinical skills and professional behaviours. These integrated learning activities will be supported by class meetings, laboratory, tutorial and clinical sessions. Learning will also be supported by independent study and discussion of findings in class. Students will work in a collaborative environment to learn to critically evaluate themselves, and plan and implement strategies for improvement. The stream emphasises the scientific basis of dentistry by integrating knowledge of the structure and function of the body, especially of the head and neck region, and also aspects of microbiology, immunology and pathology, with an emphasis on developing the skills to examine, assess risk and systematically manage healthy patients with minor oral conditions.

There is a strong emphasis on the acquisition of manual dexterity skills relating to operative dentistry while building on knowledge relating to a preventive approach to oral health. Students will further their experience in behavioural science by examining and managing patients.

DENT 3001AHO/BHO

Dental and Health Science III Part 1 & 2

6 units - full year

Up to 7 hours per week

Restriction: Available to BDS students only

Pre-Requisite(s): DENT 2001AHO/BHO & DENT 2000HO

Co-Requisite(s): DENT 3002 AHO/BHOI & DENT 3003AHO/BHO

Assessment: short tests, journal review, practical and clinical exercises, problem-based learning sessions & PBL written exam

This stream aims to: describe the normal functioning of the masticatory system, the importance of occlusion and the characteristics of an optimal occlusion, describe the morphological and functional changes that occur in the masticatory system as a result of normal growth and ageing, and the adaptability of the system to these changes; emphasise the importance of occlusion in all branches of dentistry and consider the methods available for diagnosis and treatment of disorders of the masticatory system; consider the causes and effects of disease and stress on the masticatory system; describe human growth and development with particular emphasis on aspects relevant to dentistry; provide an introduction to aspects of orthodontic examination diagnosis and treatment. A number of problem-based dental learning packages are provided in this stream to give a context to student learning.

Topics include: orofacial sensation, jaw muscles and receptors; jaw reflexes, mastication and swallowing, temporomandibular joint function and loading, parafunction, occlusal therapy, concepts of physical growth and development, methods for studying growth, factors affecting growth, development of the skull, factors affecting normal dento-facial growth, indices of maturation, facial aesthetics, normal changes in dental arch form, aetiology of orthodontic problems.

DENT 3002AHO/BHO

Dental Clinical Practice III Part 1 & 2

12 units - full year

Up to 16 hours per week

Restriction: Available to BDS students only

Pre-Requisite(s): DENT 2002AHO/BHO, DENT 2001AHO/BHO, DENT 2003AHO/BHO & DENT 2000HO

Co-Requisite(s): DENT 3001AHO/BHO & DENT 3003AHO/BHO

Assessment: tests of understanding, assignments, laboratory exercises, clinical work, written exam.

This stream builds upon Dental Clinical Practice II with regard to the consolidation of preventive, periodontal and restorative clinical skills, through manikin exercises and by provision of treatment for selected patients of the South Australian Dental Service. The pain control component of the stream covers local anaesthetic techniques. The stream includes a laboratory program in removable prosthodontics, endodontic and in cast gold restorations. Topics include: patient assessment for local anaesthesia, pharmacological aspects of local anaesthesia, basic principles of local anaesthesia; aspects of basic and advanced restorative dentistry; treatment planning principles of preparation for indirect gold, resin and porcelain restorations; laboratory stages of cast gold restorations; bonding systems; philosophies and practices of removable partial denture prosthodontics; periodontics aetiology and treatment; pulpal, periapical and periradicular pathology; dental materials; periapical and panoramic radiography.

DENT 3003AHO/BHO

Diseases and Disorders of the Body IIID Part 1 & 2

6 units - full year

Up to 6 hours per week

Restriction: Available to BDS students only

Pre-Requisite(s): DENT 2003AHO/BHO & DENT 2000HO

Co-Requisite(s): DENT 3001AHO/BHO & DENT 3002 AHO/BHO

Assessment: two written exams, end of year exam

This stream introduces students to pathology, microbiology and immunology in the context of human disease. The course aims to provide students with a detailed understanding of core pathological

and immunological reactions that can occur and how such processes relate to clinical disease; to provide students with detailed knowledge of the structure and biology of bacteria, viruses and fungi and how these organisms relate to human disease states and processes; to provide a detailed under-standing of the normal oral microflora and its relationship to oral health and specific dental diseases such as caries and periodontal disease; to provide a detailed understanding of the processes of neoplasia and hyperplasia generally and in relation to the mouth. Topics include: cell injury, acute and chronic inflammation, healing, the cellular composition and function of the normal immune system, immune system reactivity, immunological hypersensitivities; microbial physiology, metabolism and genetics; principles and practice of disinfection and sterilisation, antibiotic therapy, infection control; host-parasite relationships including mechanism of pathogenicity; bacterial, viral and fungal diseases of relevance in dentistry; the oral microbiota and its relation to caries and periodontal diseases; hyperplasia and oral hyperplastic lesions, HIV/AIDS, neoplasia and oral neoplasia.

DENT 4001AHO/BHO

Dental and Health Science IV Part 1 & 2

8 units - full year

Contact hours to be determined

Restriction: Available to BDS students only

Pre-Requisite(s): DENT 3001AHO/BHO & DENT 3000HO

Co-Requisite(s): DENT 4002AHO/BHO & DENT 4003AHO/BHO

Assessment: short tests, projects, dental learning packages, written exams

This stream provides an understanding of the interactions between general health, general disease and medical treatment with dental treatment. Topics include: general and oral pathology, general medicine, pharmacology and therapeutics, general surgery; social and community aspects of health, and pain control. Dental learning packages (DLP's) will be presented in coordination with the Dental Clinical Practice IV stream. It aims to: provide a systematic overview of clinical and other pathologic features of various diseases/lesions that may be encountered in the tissues of the oral region; describe the systemic diseases and disorders of the body of relevance to dentists; provide an appreciation of principles of drug administration, distribution, action and elimination; provide instruction on important classes of drugs with emphasis on their modes of administration and action, therapeutic uses, adverse effects and interactions; discuss the role of pharmacology and therapeutics in dental practice; discuss the management of medically compromised patients; provide an overview of surgery including knowledge of metabolic response to injury and shock, bleeding and transfusion and surgical infection; discuss social and community aspects of disease including the burden of illness, inequalities and determinants of health, health promotion, care and policy.

An understanding of the basic principles and clinical and microscopic features of disease is assumed, particularly: developmental disorders, inflammation, basic immunopathology, hyperplasia, neoplasia, degenerative disease, hormonal-metabolic disease, physiology, biochemistry and microbiology.

DENT 4002AHO/BHO

Dental Clinical Practice IV Part 1 & 2

12 units - full year

Up to 3 hours per week

Restriction: Available to BDS students only

Pre-Requisite(s): DENT 3002A/BHO & DENT 3000HO

Co-Requisite(s): DENT 4001A/BHO & DENT 4003AHO/BHO

Assessment: self assessment, tutor assessment of clinical performance, written exams, may also include written assignments or patient case reports & interviews - minimum standards are required in each discipline to complete stream requirements

This stream builds upon previous years with regard to the acquisition and consolidation of dental clinical skills in the disciplines of behavioural science, conservative (operative) dentistry, dental materials, endodontics, oral diagnosis, periodontics, radiology and radiography. The stream consists of class meetings, lectures, seminars, research projects, dental learning packages and clinical practice.

In semester 1, students are introduced to the clinical disciplines of complex conservative dentistry (fixed prosthodontics), paediatric dentistry, orthodontics and removable prosthodontics. Students undertake preclinical practical exercises in these disciplines and must achieve a satisfactory standard before proceeding to treat patients. In semester 2, the disciplines of oral surgery and temporomandibular disorders are introduced through lecture programs. In clinical practice, emphasis is placed on acquiring skills for integrated treatment planning and developing responsible professional attitudes towards care and management of patients assigned to each student for treatment.

DENT 4003AHO/BHO

Dental Selectives IV Part 1 & 2

4 units - full year

Up to 3 hours per week

Restriction: Available to BDS students only

Pre-Requisite(s): DENT 3000HO

Co-Requisite(s): DENT 4001 & DENT 4002

Assessment: by supervisors/presenters, as per the option outline

This stream is designed to give students the opportunity to explore selected aspects of dentistry in more detail or gain additional experience in certain areas or take part in one or more activities not included in other parts of the program. This might include coursework from appropriate programs, supervised research projects, or exchange visits to other dental schools or dental organisations. Students may undertake established options, or develop individual options with guidance from the Stream Coordinator, and are strongly advised to discuss such a proposed selective option with the coordinator as soon as possible.

DENT 4100AHO/BHO

Honours Dentistry Part 1 & 2

24 units - full year

Restriction: Available to B Sc Dent (Hons) students only

Candidates may, with the approval of the Head of Department, enrol in the Honours Dentistry program after they have successfully completed third year, or after they have obtained the degree of Bachelor of Dental Surgery or equivalent. Under certain circumstances, candidates who have obtained an degree in another Faculty may be admitted to an Honours program in Dentistry.

Candidates may choose as their principal area of study one of the current research thrusts of the Dental School. Candidates will be required to undertake on a full time basis for one year (or half-time if approved by the Dean], a program of study which may include essays, seminars, laboratory work, clinical work and a research project under the supervision of a member of the School. A candidate may be required to undertake such formal courses of study in related courses as are deemed desirable. Prospective candidates are advised to consult the Dean of the Dental School and staff members in the year preceding the honours year to discuss the area of proposed study.

ANAT SC 4000A/B Honours Anatomical Sciences

BIOCHEM 4000A/B Honours Biochemistry

DENT 4100A/B Honours Dentistry

GENETICS 4005A/B Honours Genetics

PATHOL 4000A/B Honours Pathology

PHARM 4000A/B Pharmacology

DENT 5001AHO/BHO

Dental and Health Science V Part 1 & 2

8 units - full year

Up to 6 hours per week

Restriction: Available to BDS students only

Pre-Requisite(s): DENT 4001AHO/BHO & DENT 4000HO

Co-Requisite(s): DENT 5002 AHO/BHO & DENT 5003 AHO/BHO

Assessment: written assignment, seminar presentation, seminar participation, may include written exam

This stream builds upon 4001 Dental and Health Science IV. A population perspective on oral health and access to dental care is presented as a context for the consideration of a number of problem-based learning packages on the organisation and delivery of dental care, particularly to disadvantaged groups. These problem-based learning packages are supported by guided reading, seminars and resource talks.

Clinical applications of oral pathology and oral medicine are covered including the principles of diagnosis of systemic and local diseases affecting the oral cavity. Instruction is given in the use of clinical and laboratory diagnostic procedures. Methods of treatment of oral disease are considered and emphasis is placed on interactions between dental treatment and medical conditions.

Topics related to community dentistry, practice management, working with auxiliaries, legal and ethical issues, as well as updates in a variety of clinical disciplines are discussed in a series of interdisciplinary seminars during the second semester.

DENT 5002AHO/BHO

Dental Clinical Practice V Part 1 & 2

12 units - full year

hours to be determined

Restriction: Available to BDS students only

Pre-Requisite(s): DENT 4002A/BHO & DENT 4000HO

Co-Requisite(s): DENT 5001AHO/BHO & DENT 5003 AHO/BHO

Assessment: self assessment, tutor assessment, written clinical assessments - minimum standards required in each discipline to satisfactorily complete stream requirements

This stream builds upon previous years with regard to the acquisition and consolidation of dental clinical skills in different disciplines including general dental practice, oral diagnosis, dental radiology, oral surgery, paediatric dentistry and orthodontics, pain control and removable prosthodontics. Students gain clinical experience of the comprehensive management of patients, based on the coordination of skills from individual disciplines. Seminars and clinical tutorials explore a wide range of topics relating to general practice. Emphasis is placed on treatment planning, reviews of completed treatments and prognosis. Oral diagnosis and Dental Radiology components continue on, with increasing emphasis on the development of treatment planning and communication skills. Rural placements are available for final year students. Lectures on oral surgery presented during the fourth year are followed and expanded in class meetings and clinical sessions. Major aspects of oral surgery including dento-alveolar surgery, maxillo-facial injuries, pre-prosthetic surgery, orthognathic surgery, temporomandibular joint surgery and aspects of cleft surgery and head and neck oncology are covered.

Clinical practice in oral surgery includes patient assessment, diagnosis, selection of appropriate analgesia/anaesthesia, routine exodontia, minor oral surgery and elective oral surgery on outpatients at the Royal Adelaide Hospital. Students gain further knowledge in the management of apprehension and pain, including general anaesthesia.

DENT 5003AHO/BHO

Dental Selectives V Part 1 & 2

4 units - full year

90hrs total for two options, some aspects may be taken during semester breaks or semester at times convenient to the student and presenter.

Restriction: BDS students only

Pre-Requisite(s): DENT 4000HO, some clinical selectives - students to have satisfactorily passed prerequisite level of knowledge

Co-Requisite(s): DENT 5001HO, DENT 5002HO

Assessment: determined by supervisor/presenters as per option outline

This stream follows on from Dental Selectives IV with the intention of allowing students to customise aspects of their dental program by exploring selected aspects of dentistry in more detail, gaining additional experience in certain areas, or taking part in activities not included in the core component of the undergraduate dental program, with a scholarly component to each option . This might include additional experience in advanced aspects of dental clinical practice, dental and health sciences, or human biology, coursework from other appropriate educational institutions, supervised research projects, or exchange visits to other institutions or dental schools.

Students may undertake established options, or develop individual options with guidance from the Stream Coordinator, and are strongly advised to discuss such a proposed selective option with the coordinator as soon as possible.

General Practice

GEN PRAC 2000

Indigenous Health II

3 units - semester 1 or semester 2

Up to 3 hours per week

Restriction: Available to B Health Sc, B Medicine & B Surgery students only

Assessment: oral presentation 10%, written tutorial assignment 30%, group presentation 10%, final essay assignment 50%

This course aims to introduce students to an analysis of Indigenous health that draws on inter-disciplinary theoretical frameworks from the social sciences and humanities, including reference to frameworks developed by Indigenous social scientists, writers and artists. Students will explore historical, social and cultural contexts and their application to an analysis of particular Indigenous health problems. The will also gain an understanding of issues connected to identity and cultural diversity as they relate to developments in the relationship between the health professional and the indigenous subject. Furthermore, students will complete the elective with an increased understanding of some of the underlying historical, social and cultural issues, and their relationship to health and wellbeing as defined by Indigenous people.

This course includes a field trip within South Australia, during which student will interact with local Indigenous people, be exposed to Indigenous art, music and culture, and visit Indigenous health services

GEN PRAC 4000AHO/BHO

Honours Primary Health Care Part 1 & 2

24 units - full year

Restriction: Available to B Med Sc students, appropriately qualified B Health Sci students only, or by permission of Head of Discipline

Assessment: to be advised at start of year

Students requiring further information concerning syllabuses and work required for the Honours degree of Bachelor of Medical Science are advised to consult the Head of the appropriate

Health Informatics

HLTHINFO 4000A/B

Honours Health Informatics Part 1 & 2

24 units - full year

Restriction: Available only to students admitted to the relevant Honours program

Health Sciences

HLTH SC 2100

Fundamentals in Human Nutrition

3 units - semester 1

Up to 5 hours per week

Available for Non-Award Study

Pre-Requisite(s): Pass in Level I Anatomical Sciences courses

Assessment: Examinations & assignments

This course investigates how macronutrients and micronutrients influence health and disease at the whole organism, organ, cellular and molecular level. It will introduce students to fundamental principles in cellular metabolism and nutritional physiology related to dietary components. Students will investigate how basic cellular and molecular processes are regulated by dietary components and how diet can influence overall human health and disease. Students will be able to critically assess nutritional status and both develop and critique basic nutritional interventions designed to improve human health and wellbeing.

Medical Studies

MEDIC ST 1101A/B

Scientific Basis of Medicine I Part 1 & 2

6 units - full year

weekly lectures, PBL sessions & resource sessions

Restriction: Available to MBBS students only

Assessment: details provided at start of year

Through the study of clinical cases students will develop a knowledge and understanding of the basic scientific principles that underpin the practice of medicine. The Problem Based Learning Program emphasises the need for students to be able to explain the mechanisms responsible for the production of symptoms and signs of diseases and to be able to relate these to pathophysiology and related underlying scientific disciplines. Student learning in this program is supported by relevant resource sessions and lectures.

MEDIC ST 1102A/B

Clinical Skills I Part 1 & 2

6 units - full year

weekly lectures, PBL sessions & resource sessions

Restriction: Available to MBBS students only

Assessment: details provided at start of year

Students are introduced to the skills of medical practice. Emphasis is placed on developing the clinical interviewing skills required to elicit and record a clinical history and to perform a physical examination. Clinical skills will be gained within the Medicine Course's Clinical Skills Laboratory Located within the Medical School building.

MEDIC ST 1103A/B

Medical Professional & Personal Development I Pt 1 & 2

6 units - full year

weekly lectures, PBL sessions & resource sessions

Restriction: Available to MBBS students only

Assessment: details provided at start of year

Through this stream students will develop competency in communication with patients, relatives, allied health professionals, media and people in general. Alongside this, students are assisted to develop strategies and skills for self care and for addressing attitudinal, ethical and professional aspects of life as a medical practitioner. Supporting skills in information technology, decision making, information management, organisational factors, workflow, patient safety, evidence based medicine and epidemiology are developed.

MEDIC ST 2101A/B

Scientific Basis of Medicine II Part 1 & 2

6 units - full year

weekly lectures, PBL sessions & resource sessions

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 1 MBBS Exam

Assessment: details provided at start of year

Through the study of clinical cases students will develop a knowledge and understanding of the basic scientific principles that underpin the practice of medicine. The Problem Based Learning Program emphasises the need for students to be able to explain the mechanisms responsible for the production of symptoms and signs of diseases and to be able to relate these to pathophysiology and related underlying scientific disciplines. Student learning in this program is supported by relevant resource sessions and lectures.

MEDIC ST 2102A/B

Clinical Skills II Part 1 & 2

6 units - full year

weekly lectures, PBL sessions & resource sessions

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 1 MBBS Exam

Assessment: details provided at start of year

Students are introduced to the skills of medical practice. Emphasis is placed on developing the clinical interviewing skills required to elicit and record a clinical history and to perform a physical examination. Clinical skills will be gained within the Medicine Course's Clinical Skills Laboratory located in the Medical School building.

MEDIC ST 2103A/B

Medical Professional & Personal Development II Pt1 & 2

6 units - full year

weekly lectures, PBL sessions & resource sessions

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 1 MBBS Exam

Assessment: details provided at start of year

Through this stream students will develop competency in communication with patients, relatives, allied health professionals, media and people in general. Alongside this students are assisted to develop strategies and skills for self care and for addressing attitudinal, ethical and professional aspects of life as a medical practitioner. Supporting skills in information technology, decision making, information management, organisational factors, workflow, patient safety, evidence based medicine and epidemiology are developed.

MEDIC ST 3101A/B

Scientific Basis of Medicine III Part 1 & 2

6 units - full year

weekly lectures, PBL sessions & resource sessions

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 2 MBBS Exam

Assessment: details provided at start of year

Through the study of clinical cases students will develop a knowledge and understanding of the basic scientific principles that underpin the practice of medicine. The Problem Based Learning Program emphasises the need for students to be able to explain the mechanisms responsible for the production of symptoms and signs of diseases and to be able to relate these to pathophysiology and related underlying scientific disciplines. Student learning in this program is supported by relevant resource sessions and lectures.

MEDIC ST 3102AHO/BHO

Clinical Skills III Part 1 & 2

6 units - full year

weekly lectures, PBL sessions & resource sessions

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 2 MBBS Exam

Assessment: details provided at start of year

Students are introduced to the skills of medical practice. Emphasis is placed on developing the clinical interviewing skills required to elicit and record a clinical history and to perform a physical examination. Clinical skills will be gained through placement in a hospital for one day per week.

MEDIC ST 3103A/B

Medical Professional & Personal Development III Pt 1 & 2

6 units - full year

weekly tutorials and regular lectures

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 2 MBBS Exam

Assessment: details provided at start of semester

Through this stream students will develop competency in issues relating to public health, particularly population health, medical systems, ethics and epidemiology. Supporting skills in information technology, decision making, information management, organisational factors, workflow, patient safety, evidence based medicine and epidemiology are developed.

MEDIC ST 3104A/B

Research and Clinical Reasoning

6 units - full year

Up to 4 hours per week

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 2 MBBS Exam

Assessment: Details provided at the start of the year

Through a program of case-based tutorials lectures and assignments, students will further develop their knowledge and understanding of the principles of the research, evidence-based practice and clinical reasoning that underpin the practice of medicine.

MEDIC ST 4011AHO/BHO

Research Proposal Part 1 & 2

2 units - full year

common program & research

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 3 MBBS Exam

Assessment: details provided at start of year

Students will spend the equivalent of 1/2 day per week allocated over an academic year (including monthly one-hour meetings with a supervisor), during which they will identify a research question (agreed with their supervisor) and prepare a research proposal. This will include definition, aims and hypotheses, literature review, appropriate research methodology (including an outline of the statistical analysis) and completion of an ethics proposal including the application for appropriate ethics approvals. Students with a specific interest in research may have the opportunity to do a six-week research elective in Year 5.

MEDIC ST 4013AHO/BHO

Medical and Scientific Attachment 1 Part 1 & 2

2 units - full year

attachments, common program & research

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 3 MBBS Exam

Assessment: details provided at start of year

Students will be offered options for three-week medical and scientific attachments. These attachments will have a structured program of learning activities and may be used to offer a student the opportunity for: immersion in a broad spectrum of clinical or non-clinical specialty areas and their scientific underpinning; additional research; or directed remediation.

MEDIC ST 4014AHO/BHO

Medical and Scientific Attachment 2 Part 1 & 2

2 units - full year

attachments, common program & research

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 3 MBBS Exam

Assessment: details provided at start of year

Students will be offered options for three-week medical and scientific attachments. These attachments will have a structured program of learning activities and may be used to offer a student the opportunity for: immersion in a broad spectrum of clinical or non-clinical specialty areas and their scientific underpinning; additional research; or directed remediation.

MEDIC ST 4015AHO/BHO

Medical Home Unit Part 1 & 2

6 units - full year

attachments, common program & research

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 3 MBBS Exam

Assessment: details provided at start of year

The clinical attachments are a program of clinical education through a selection of placements so that students will be competent in history-taking, patient examination and management. This includes problem formulation, investigations, treatment (pharmacological and non-pharmacological), counselling, good communication skills, the practice of empathetic medicine, and a sound knowledge base that allows diagnosis and management of common disorders to be carried out under appropriate supervision. Some students will have the opportunity to undertake their training for an extended period of time in a rural or remote setting.

MEDIC ST 4016AHO/BHO

Surgical Home Unit Part 1 & 2

6 units - full year

attachments, common program & research

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 3 MBBS Exam

Assessment: details provided at start of year

The clinical attachments are a program of clinical education through a selection of placements so that students will be competent in history-taking, patient examination and management. This includes problem formulation, investigations, treatment (pharmacological and non-pharmacological), counselling, good communication skills, the practice of empathetic medicine, and a sound knowledge base that allows diagnosis and management of common disorders to be carried out under appropriate supervision. Some students will have the opportunity to undertake their training for an extended period of time in a rural or remote setting.

MEDIC ST 4017AHO/BHO

Psychiatry Part 1 & 2

4 units - full year

attachments, common program & research

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 3 MBBS Exam

Assessment: details provided at start of year

The clinical attachments are a program of clinical education through a selection of placements so that students will be competent in history-taking, patient examination and management. This includes problem formulation, investigations, treatment (pharmacological and non-pharmacological), counselling, good communication skills, the practice of empathetic medicine, and a sound knowledge base that allows diagnosis and management of common disorders to be carried out under appropriate supervision. Some students will have the opportunity to undertake their training for an extended period of time in a rural or remote setting.

MEDIC ST 4018AHO/BHO

Musculoskeletal Medicine Part 1 & 2

4 units - full year

attachments, common program & research

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 3 MBBS Exam

Assessment: details provided at start of year

The clinical attachments are a program of clinical education through a selection of placements so that students will be competent in history-taking, patient examination and management. This includes problem formulation, investigations, treatment (pharmacological and non-pharmacological), counselling, good communication skills, the practice of empathetic medicine, and a sound knowledge base that allows diagnosis and management of common disorders to be carried out under appropriate supervision. Some students will have the opportunity to undertake their training for an extended period of time in a rural or remote setting.

MEDIC ST 5005AHO/BHO

Medical and Scientific Attachment 3 Part 1 & 2

2 units - full year

attachments, common program & research

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 4 MBBS Exam

Assessment: details provided at start of year

Students will be offered options for three-week medical and scientific attachments. These attachments will have a structured program of learning activities and may be used to offer a student the opportunity for: immersion in a broad spectrum of clinical or non-clinical specialty areas and their scientific underpinning; additional research; or directed remediation.

MEDIC ST 5006AHO/BHO

Medical and Scientific Attachment 4 Part 1 & 2

2 units - full year

attachments, common program & research

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 4 MBBS Exam

Assessment: details provided at start of year

Students will be offered options for three-week medical and scientific attachments. These attachments will have a structured program of learning activities and may be used to offer a student the opportunity for: immersion in a broad spectrum of clinical or non-clinical specialty areas and their scientific underpinning; additional research; or directed remediation.

MEDIC ST 5007AHO/BHO

Medical and Scientific Attachment 5 Part 1 & 2

2 units - full year

attachments, common program & research

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 4 MBBS Exam

Assessment: details provided at start of year

Students will be offered options for three-week medical and scientific attachments. These attachments will have a structured program of learning activities and may be used to offer a student the opportunity for: immersion in a broad spectrum of clinical or non-clinical specialty areas and their scientific underpinning; additional research; or directed remediation.

MEDIC ST 5009AHO/BHO

Geriatrics and General Practice Part 1 & 2

4 units - full year

attachments, common program & research

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 4 MBBS Exam

Assessment: details provided at start of year

The clinical attachments are a program of clinical education through a selection of placements so that students will be competent in history-taking, patient examination and management. This includes problem formulation, investigations, treatment (pharmacological and non-pharmacological), counselling, good communication skills, the practice of empathetic medicine, and a sound knowledge base that allows diagnosis and management of common disorders to be carried out under appropriate supervision. Some students will have the opportunity to undertake their training for an extended period of time in a rural or remote setting.

MEDIC ST 5013HO

External Elective

0 units - semester 2

placement in external institution

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 4 MBBS Exam

Assessment: details of placements provided to Dean of Medicine

Between Year 5 and year 6, students are required to undertake a placement at another institution, usually interstate or overseas.

MEDIC ST 5014AHO/BHO

Anaesthesia, Pain Medicine & Intensive Care V Pt1 & 2

2 units - full year

attachments, common program & research

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 4 MBBS Exam

Assessment: Based on attendance, participation in discussions and knowledge

The clinical attachments are a program of clinical education through a selection of placements so that students will be competent in history-taking, patient examination and management. This includes problem formulation, investigations, treatment (pharmacological and non-pharmacological), counselling, good communication skills, the practice of empathetic medicine, and a sound knowledge base that allows diagnosis and management of common disorders to be carried out under appropriate supervision. Some students will have the opportunity to undertake their training for an extended period of time in a rural or remote setting.

MEDIC ST 5015AHO/BHO

Paediatrics and Child Health Part 1 & 2

6 units - full year

attachments, common program & research

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 4 MBBS Exam

Assessment: details provided at start of year

The clinical attachments are a program of clinical education through a selection of placements so that students will be competent in history-taking, patient examination and management. This includes problem formulation, investigations, treatment (pharmacological and non-pharmacological), counselling, good communication skills, the practice of empathetic medicine, and a sound knowledge base that allows diagnosis and management of common disorders to be carried out under appropriate supervision. Some students will have the opportunity to undertake their training for an extended period of time in a rural or remote setting.

MEDIC ST 5016AHO/BHO

Human Reproductive Health Part 1 & 2

6 units - full year

attachments, common program & research

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 4 MBBS Exam

Assessment: details provided at start of year

The clinical attachments are a program of clinical education through a selection of placements so that students will be competent in history-taking, patient examination and management. This includes problem formulation, investigations, treatment (pharmacological and non-pharmacological), counselling, good communication skills, the practice of empathetic medicine, and a sound knowledge base that allows diagnosis and management of common disorders to be carried out under appropriate supervision. Some students will have the opportunity to undertake their training for an extended period of time in a rural or remote setting.

MEDIC ST 6000

Final (Sixth Year) MBBS Assessment

0 units - semester 1 or semester 2

4 x 4 week placements,16 wk afternoon seminar program, 1 week program in ENT; 4 x 4 placement

Restriction: Available to MBBS students only

Assessment: to be advised

The Final Year of the program for the MBBS involves:

a. 2 x 4 week placements under the supervision of the University of Adelaide's Departments of Medicine and Surgery and their clinical teachers at the Royal Adelaide Hospital, Queen Elizabeth Hospital, Lyell McEwin Hospital, Women's and Children's Hospital and Modbury Hospital; 4 week placement under the supervision of the Emergency Medicine Department/s; 4 week clinical elective: students will have choice in selecting this elective - some students may be required to complete a clinical elective in a specified area based on decisions made at the Year 5 Board of Examiners; seminar program on Friday afternoons; 1 week program in ENT, Ophthalmology and Dermatology.
b. Undertaking 4 x 4 week Specialist/Community or Ambulatory Placements (SCAPs) in the general areas of Medicine, Surgery, Primary Care and Psychiatry. Students have to complete a SCAP in each of these areas and they have considerable choice in defining their program. For Australian students at least one SCAP may be in a rural setting with this being optional for international students.

Through this program students will obtain results for the following component courses of MEDIC ST 6000 Final (6th Year) Assessment:

MEDIC ST 6001HO

Clinical Elective and Specials Week VI

MEDIC ST 6002HO

Medicine Internship and Common Program VI

MEDIC ST 6003HO

Surgery Internship VI

MEDIC ST 6004HO

Emergency Medicine Internship VI

MEDIC ST 6005HO

Primary Care SCAP VI

MEDIC ST 6006HO

Psychological Health SCAP VI

MEDIC ST 6007HO

Medicine SCAP VI

MEDIC ST 6008HO

Surgery SCAP VI

Each of the above courses is valued at 1.5 units and available only to MBBS students. Assessment for each course will be advised at the beginning of the year.

MEDIC ST 6009AHO/BHO

Medicine Internship & Common Program VI Part 1 & 2

4 units - full year

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 5 MBBS exam

Assessment: To be advised at the start of the year

MEDIC ST 6010AHO/BHO

Surgery Internship VI & Specials Week VI Part 1 & 2

4 units - full year

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 5 MBBS exam

Assessment: To be advised at the start of the year

MEDIC ST 6011AHO/BHO

Emergency Department Internship VI Part 1 & 2

4 units - full year

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 5 MBBS exam

Assessment: To be advised at the start of the year

MEDIC ST 6012AHO/BHO

Medicine/Surgery SCAP VI Part 1 & 2

4 units - full year

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 5 MBBS exam

Assessment: To be advised at the start of the year

MEDIC ST 6013AHO/BHO

Primary Care SCAP VI Part 1 & 2

4 units - full year

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 5 MBBS exam

Assessment: To be advised at the start of the year

MEDIC ST 6014AHO/BHO

Psychiatry SCAP VI Part 1 & 2

4 units - full year

Restriction: Available to MBBS students only

Pre-Requisite(s): Year 5 MBBS exam

Assessment: To be advised at the start of the year

MEDICINE 4000AHO/BHO

Honours Medicine Part 1 & 2

24 units - full year

Restriction: Available to B Med Sc students only, or appropriately qualified B Health Sc students, or by permission of the Head of School

Assessment: to be advised at start of year

Students requiring further information concerning syllabuses and work required for the Honours degree of Bachelor of Medical Science are advised to consult the Head of the appropriate department as early as possible.

Nursing

NURSING 1000

Human Sciences 1A

6 units - semester 1

lectures, tutorials, workshops, labs, online teaching

Assessment: to be advised

This course will introduce students to the human sciences that provide the foundation of effective nursing practice. It will be comprised of the following modules that will facilitate student learning of: (i) Human Biology IA: the functional organisation of the body, the cell and its function, body fluids and chemistry. Homeostasis and control of the body functions. (ii) Microbiology, Immunology and Infection Control IA: classification of microbes and the basic principles of infection control. (iii) Health and Illness A: the physiological basis of health and illness, terminology, body image, sexuality and theories of health, illness and disease. Evidence based practice (EBP) and research in health care. (iv) Medication and Management IA: safe use of medicines, legislation governing administration and prescribing, modes of administration, fundamental skills for basic drug dose calculations and nomenclature and classification systems.

NURSING 1001

Nursing Practice 1A

6 units - semester 1

workshops and clinical placement

Assessment: to be advised

This course will be comprised of the following modules: (i) Nursing as a Profession IA: the role of nurses in the provision of health care, history and nursing knowledge. Regulation of practice, legislation governing practice, The Australian Nursing and Midwifery Council Competencies, professional codes of practice and standards of practice. (ii) Therapeutics of Clinical Nursing IA: integration of the knowledge and attitudes learned throughout the program with the skills required for effective nursing practice. The foundation nursing skills involved in supporting patients in the activities of daily living, providing basic hygiene, principles of basic nutrition, manual handling, standard precautions and an introduction to basic life support will be practiced. Technology used in nursing care and occupational health and safety of nurses will be considered. Learning will be facilitated through workshops and clinical placements. The clinical cycle placement will be in an acute setting. (iii) Health Assessment IA: skills of interviewing, inspection, palpatation, percussion and auscultation and recording vital signs. (iv) Communication and Psychosocial Care IA: effective communication between nurses and their patients and with members of the community and other health professionals. Human emotions, spirituality and death and dying. Trans-cultural nursing: cultural safety in nursing.

NURSING 1002

Human Sciences 1B

6 units - semester 2

lectures, tutorials, workshops, labs, online learning

Assessment: to be advised

This course will build on Human Sciences IA and Nursing Practice IA. It will be comprised of the following modules that will facilitate student learning of: (i) Human Biology IB: structure and function of the body using the systems approach. (ii) Microbiology, Immunology

and Infection Control IB. (iii) Medication Management IB: complex concepts of pharmocokinetics in relation to nursing practice. (iv) Health and Illness B: building on student's prior learning regarding the physiological basis of health and illness, nutrition, terminology, body image and sexuality. Student learning will be progressed regarding the theories of health, illness and disease. EBP and research in health care.

NURSING 1003

Nursing Practice 1B

6 units - semester 2

workshops and clinical placements

Assessment: to be advised

The course will be comprised of the following modules: (i) Nursing as Profession IB: ethics law, accountability and responsibility. (ii) Therapeutics of Clinical Nursing IB: this module will build on prior student learning in Therapeutics of Clinical Nursing IA with further integration of knowledge, attitudes and skills required for practice. Introduction to more complex skills required for safe and therapeutic nursing care. Students will have the opportunity to begin to learn how to practice in accordance with the ANC National Nursing Competency Standards for the Registered Nurse. Learning will be facilitated through workshops and clinical placements. The clinical cycle placement will be an acute setting.(iii) Health Assessment IB: continuing student's learning of nursing assessment. (iv) Communication and Psychosocial Care IB: building on student's learning of psychosocial care that developed from their learning in Nursing Practice IA and their experiential learning. (v) Trans-cultural Nursing IB: further concepts of cultural safety in nursing will be explored. Issues relating to providing care for Aboriginal and Torres Strait islander people and their families will be considered. The factors that need to be considered in caring for people with diverse cultures such as migrants will also be explored.

NURSING 1101NA

Foundations of Nursing Practice I

3 units - quadmester 2

Intensive daily lectures and tutorials in weeks 1-2, 6-7, 11-12

Restriction: Available to B Nurs (Post Registration) students in Singapore only

Assessment: Learning Portfolios

This course is designed to facilitate student learning about development of nursing as a profession and discipline. It will focus on professional issues and the elements of practice that distinguish nursing as a profession. These include healthcare ethics, law and advocacy. The students will be required to identify and describe how these issues relate to their current practice.

The curriculum includes the following content specified by the Singapore Nursing Board curriculum requirements: Healthcare Ethics and Law.

NURSING 1102NA

Health Assessment

3 units - quadmester 2

Intensive daily lectures and tutorials in weeks 1-2, 6-7, 11-12

Restriction: Available to B Nurs (Post Registration) students in Singapore only

Assessment: Case presentation and report

This course will enable students to build on their existing knowledge and skills to develop advanced clinical reasoning and problem solving skills. The topics for assessment have been based on the most common causes of mortality and morbidity as reported by the Singapore Ministry of Health in their statistics for 2007.It will link with Complex Clinical Practice. Students will be asked to consider a complex patient scenario based on their own practice setting. The skills required for advanced comprehensive physical, mental and psychosocial assessment will be identified and practiced. Behavioural issues will be identified and the implications these have for nursing practice will be discussed. This scenario will then be further developed in Complex Clinical Practice where the advanced pathophysiology and pharmacology will be the focus of study. It is anticipated that students will learn not only from their own cases but also from those presented by the other students. In presenting their case studies the students will further develop their own teaching skills.

The curriculum includes the following content specified by the Singapore Nursing Board curriculum requirements: Health and Physical assessment, Teaching and Learning, Pathophysiology, Applied Pharmacology, Behavioural Sciences and Sociology.

NURSING 1103NA

Foundations of Nursing Practice II

3 units - semester 2

Intensive daily lectures in weeks 1 and 12, tutorials weeks 2,4,6,8,10

Restriction: Available to B Nurs (Post Registration) students in Singapore only

Assumed Knowledge: NURSING 1101NA

Assessment: Learning portfolio and presentation

This course will build on Foundations of Nursing Practice I and will focus on the evolution of nursing knowledge, management and leadership, and the principles and practice of teaching and learning.

The curriculum includes the following content specified by the Singapore Nursing Board curriculum requirements: Nursing Theories & Clinical Application, Teaching & Learning, and Nursing Management.

NURSING 1104NA

Complex Clinical Practice

3 units - semester 2

Intensive daily lectures in weeks 1 and 12 and tutorials in weeks 2,4,8,10

Restriction: Available to B Nurs (Post Registration) students in Singapore only

Assumed Knowledge: Health Assessment

Assessment: Case presentation and case report

This course will build on Health Assessment and will continue the focus on the development of advanced clinical reasoning and problem solving skills. Students will continue their work on a complex patient scenario based on their own practice setting; however this course will focus on the advanced pathophysiology and pharmacology relating to the chosen case. The patient scenarios from Health Assessment will be reviewed by the lecturer/teacher prior to the commencement of this course and weekly sessions relating to specific aspects of these cases will be scheduled. It is anticipated that students will learn not only from their own cases but also from those presented by the other students. In presenting their case studies the students will further develop their own teaching skills.

The curriculum includes the following content specified by the Singapore Nursing Board curriculum requirements: Health and Physical assessment, Teaching and Learning, Pathophysiology, Applied Pharmacology, and Behavioural Sciences and Sociology.

NURSING 1105NA

Knowledge Translation in Nursing I

3 units - semester 1 or quadmester 2

Intensive daily lectures in weeks 1, 7 & 12, tutorials in weeks 2,4,8,10

Restriction: Available to B Nurs (Post Registration) students in Singapore only

Assessment: Critical appraisal and research proposal

This course will enable students to develop an understanding of nursing research and evidence based health care. It will focus on different research methodologies and the critical appraisal of this research. The applicability and appropriateness of this research for clinical application will be investigated and the principles of evidence based practice will be examined. Students will be required to critically appraise various research methodologies and identify the relevance of nursing research to this clinical practice.

NURSING 1106NA

Knowledge Translation in Nursing II

3 units - semester 2

Intensive daily lectures in weeks 1, 7 & 12, tutorials in weeks 2, 4, 8, 10.

Restriction: Available to B Nurs (Post Registration) students in Singapore only

Assessment: Audit proposal, audit presentation and audit report

This course will build on Knowledge Translation in Nursing I. It will focus on the assessment of patient safety and the quality of nursing care including the implementation of research findings. Students will systematically evaluate and compare clinical practice with the best available research evidence and engage in clinical audit. They will be encouraged to disseminate the findings of the audit within their practice area. It is anticipated that students will learn not only from their own audits but also from those presented by the other students.

NURSING 1107NA

Nursing in a Global Community

3 units - semester 1 or quadmester 2

Intensive daily lectures in weeks 1, 7 & 12, tutorials in weeks 2, 4, 8, 10.

Restriction: Available to B Nurs (Post Registration) students in Singapore only

Assessment: Poster presentation and examination

This course will focus on the global issues facing the profession. Topics to be considered will include, epidemiology, infection control and pandemics and the nursing role. In addition the global nursing workforce and current and future challenges for health care providers will be considered. These include the ageing population in some nations, chronic illness, and the economics of health care.

NURSING 1108NA

Management

3 units - semester 2

Intensive daily lectures in weeks 1, 7 & 12, tutorials in weeks 2, 4, 8, 10.

Restriction: Available to B Nurs (Post Registration) students in Singapore only

Assessment: Annotated bibliography and essay

The aim of the course is to challenge students to consider the future of the nursing profession and how they may respond proactively to shaping the role of nursing in healthcare in the 21st century and beyond. Students will also be able to differentiate between leadership and management and describe various types of management. This course will examine a range of international models of nursing care including team nursing, primary nursing and community care models. It will also examine the role of extended nursing practice such as nurse practitioners and nurse led clinics. The expanding scope of nursing practice will be highlighted as will leadership styles and problem solving strategies. Students will examine and critique these models and roles and discuss their appropriateness for nursing practice in Singapore.

NURSING 2000

Human Sciences 2A

6 units - semester 1

Lectures, tutorials and workshops

Restriction: Available to B Nurs students only

Pre-Requisite(s): NURSING 1000 & NURSING 1002

Assessment: to be advised

This course will build on the learning from Human Sciences and Nursing Practice 1A & 1B. It will be comprised of the following modules that will facilitate student learning: (i) Human Pathophysiology 2AB: human pathopyhsiology of the cardiovascular, respiratory systems endocrine, reproductive, haematological and lymphatic systems. (ii) Child & Youth Health: this module will facilitate student learning of the issues surrounding child and youth health. In particular the factors that influence the physical and social development of children and adolescents will be considered. (iii) Pharmacology and Complementary Therapies A: the pharmacological treatment of diseases using an evidence based, systems approach. There will also be content on natural remedies and therapies for common conditions.

NURSING 2001

Nursing Practice 2A

6 units - semester 1

Lectures, tutorials & clinical placement

Restriction: Available to B Nurs students only

A quota of 50 applies

Pre-Requisite(s): NURSING 1001 & NURSING 1003

Assessment: to be advised

This course will build on the learning from Human Sciences and Nursing Practice 1A & 1B. It will be comprised of the following modules that will facilitate student learning of: (i) Nursing as a Profession 2A: further learning of legal and ethical issues. (ii)Therapeutics of Clinical Nursing 2A: this module will introduce students to further nursing and technological skills that when integrated with theory and professional attitudes, provide the foundation for competent nursing practice. Students will have the opportunity to begin to practice in accordance with the ANC National Nursing Competency Standards for the Registered Nurse. Learning will be facilitated through workshops and clinical placements. The Clinical Cycle will be a placement rural, paediatric, midwifery and community setting. (iii) Health Assessment 2A: this module will assist students in learning more advanced assessment skills. The recognition of abnormal findings of physical, and psychosocial assessments relating to the systems considered in Pathophysiology 2AB will be explored. Basic assessment skills for specific populations will also be introduced. (iv) Communication & Psychosocial Care 2A: building on the student's learning of psychosocial care and developed from their learning in Nursing Practice 1A and their experiential learning. This module will assist students to communicate effectively and provide care of people with particular needs.

NURSING 2002

Human Sciences 2B

6 units - semester 2

lectures, tutorials and workshops

Restriction: Available to B Nurs students only

Pre-Requisite(s): NURSING 1000 & NURSING 1002

Assessment: To be advised

This course will build on previous Human Sciences and Nursing Practice courses. It will be comprised of the following modules that will facilitate student learning of: (i) Human Pathophysiology 2CD: this topic will further facilitate student learning in human pathophysiology, nursing therapeutics and treatment for the neurological, special senses: gastrointestinal, urinary, renal, musculoskeletal and integumentary systems (ii) Human Development: a description human development from conception to aging.(ii) Pharmacology & Complementary Therapies B: this module will facilitate student learning of the pharmacology treatment of disease for common pathological conditions using evidence based, systems approach. Natural remedies and complementary therapies for pathophysiological conditions will also be considered.

NURSING 2003

Nursing Practice 2B

6 units - semester 2

lectures, tutorials and clinical placement

Restriction: Available to B Nurs students only

A quota of 50 applies

Pre-Requisite(s): NURSING 1001 & NURSING 1003

Assessment: to be advised

This course will build on previous Human Sciences and Nursing Practice Courses. It will be comprised of the following modules that will facilitate student learning of: (i) Nursing as a Profession 2B: this module will facilitate student learning of the legal and ethical issues surrounding professional nursing practice. This module will also assist students to continue to develop skills necessary for the planning and coordination of nursing care. (ii) Therapeutics of Clinical Nursing 2B: this module will introduce students to further nursing and technological skills that, when integrated with theory and professional attitudes, provide the foundation for competent nursing practice. Students will have the opportunity to begin to practice in accordance with the ANC National Nursing Competency Standards for the Registered Nurse. Learning will be facilitated through workshops and clinical placements. The Clinical Cycle will be placement rural, paediatric, midwifery, community and acute setting. (iii) Health Assessment 2B: this module will assist students in learning more advanced assessment skills. The recognition of abnormal finding of physical, and psychosocial assessments relating to the systems considered in Pathophysiology 2CD will be explored. (iv) Communication and Psychosocial Care 2B: this module will assist students' learning of issues relating to communication and psychosocial care of children and youths and those with special needs including and those relating to the pathophysiological conditions explored in Human Pathophysiology 2CD. These issues will also be discussed in relation to the particular need of indigenous people and their communities.

NURSING 3000

Human Sciences 3A

6 units - semester 1

Up to 8 hours per week

Restriction: Available to B Nurs students only

Pre-Requisite(s): NURSING 2000 & NURSING 2002

Assessment: To be advised

This course will builds on the previous Human Sciences courses and will facilitate students' learning of nursing therapeutics for complex illnesses. It will contain three modules. Nursing a Ctitically Ill Patient module which will facilitate the student's learning in the therapeutic nursing care of the critically ill patient. Nursing a patient in the Perioperative Environment module which will facilitate the student's learning in the specialty of Perioperative nursing. Child and Youth Health module which will facilitate the students learning in the specialty of paediatric nursing. This course aims to allow the student to consolidate the synthesis of theoretical knowledge with practical nursing interventions.

NURSING 3001

Nursing Practice 3A

6 units - semester 1

Approximately 2 Lectures and 2 Tutorials, Plus 24 hours of Clinical Placement per week over an extended academic year

Restriction: Available to B Nurs students only

Pre-Requisite(s): NURSING 2001 & NURSING 2003

Assessment: To be advised

This course will build on the human and technical skills learned in the first two years of the program. It will be comprised of the four modules. Nursing as a Profession 3A which describes the professional and legal issues associated with the role of the Registered Nurse. Health Assessment 3A which introduces the skills necessary for a thorough nursing assessment such as interview, inspection and auscultation. Therapeutics of Clinical Nursing 3A which is a practical 'hands on' subject. Communication & Psychosocial Care 3A which facilitates the learning of the psychosocial care of patients with particular needs - in this semester this refers to patients in critical care, Perioperative and paediatric environments. Clinical Cycle will be a placement in critical care, Perioperative and paediatric environments. The students will have the opportunity to apply the theory from the speacialist areas of critical care, Perioperative and paediatrics to the clinical setting.

NURSING 3002

Human Sciences 3B

6 units - semester 2

Up to 8 hours per week

Restriction: Available to B Nurs students only

Pre-Requisite(s): NURSING 2000 & NURSING 2002 & NURSING 3000

Assessment: To be advised

This course will further facilitate students' learning of complex illnesses. It will contain three modules. Nursing the Patient with Mental Health Problems which will facilitate the students learning in the therapeutic care of the mentally ill patient. Nursing the Patient with Cancer will facilitate the students learning in the specialty of oncology nursing. Nursing the patient with special needs will facilitate the student's learning in the nursing of patients with chronic illness or disability and those who require palliation. This course aims to allow the student to consolidate the synthesis of theoretical knowledge with practical nursing interventions

NURSING 3003

Nursing Practice 3B

6 units - semester 2

Approximately 2 Lectures and 2 Tutorials, Plus 24 hours of Clinical Placement per week over an extended academic year

Restriction: Available to B Nurs students only

Pre-Requisite(s): NURSING 2001 & NURSING 2003 & NURSING 3001

Assessment: To be advised

This course will further build on the human and technical skills learned in the first years of the program. It will be comprised of four modules.

Module 1 - Therapeutics of Clinical Nursing 3B - a practical 'hands on' oriented subject. This module will allow the student to consolidate your learning of nursing that when integrated with theory and professional attitudes, provide the foundation for competent nursing practice. Module 2 - Nursing as a Profession 3B - facilitates the learning of the professional issues related to nursing practice including occupational health and safety, regulation of practice, nurses and their role in the changing structure of health care. This module will also assist you to explore the issues relating to your transition from a student to registered nurse. Module 3 - Health Assessment 3B - this module facilitates the student to improve your assessment skills for a more comprehensive nursing assessment including interviewing and carrying out appropriate physical assessments of patient with mental health problems, with cancer or with special needs. Module 4 - Communication and Psychosocial Care 3B - facilitates the learning of the psychosocial care of patients with particular needs - in this semester it refers to patients with mental health problems, patients with cancer and again patients with special needs.

NURSING 4000AHO/BHO

Honours Clinical Nursing Part 1 & 2

24 units - full year

Assessment: To be advised at the start of the year

Obstetrics and Gynaecology

OB&GYNAE 3000

Human Reproductive Health III

6 units - semester 2

Up to 4 hours per week

Restriction: Available to B Health Sc, B.Psych(Hons) students, B Sc students subject to approval by their Faculty

Pre-Requisite(s): ANAT SC 1102A/B & PATHOL 2000

Assessment: written, oral assessment 70%, peer assessment of contribution to problem based learning & retraining: must be satisfactory, exam 30%

This course presents major aspects of human reproductive biology and function and technologies. Students will obtain insights into current understanding of the developmental biology of reproduction in humans and the application of reproductive technology to human health and disease. Students will be introduced to the social, medical, scientific, moral and ethical issues associated with human reproduction and its regulation, in the control of fertility, treatment of infertility and other applications such as stem cell biology. Students will gain sufficient understanding to critically evaluate past, present and emerging methods of investigation and management of reproductive function. The topic will be introduced through focused studies of human population dynamics and the contribution of developmental biology to adult health. The biology and pathology of fertilisation, implantation, embryonic and fetal growth and development and of adaptation to pregnancy will be addressed, together with developmental programming of physiological fitness throughout life and the risk of cardiovascular and related diseases in humans. The course concludes with the influence of reproductive hormones on human behaviour. Understanding will be developed at the molecular, cellular and physiological levels, through lectures, problem-based learning and research training, involving reproduction and relevant technologies.

OB&GYNAE 4000AHO/BHO

Honours Obstetrics and Gynaecology Part 1 & 2

24 units - full year

Restriction: appropriately qualified B.Hlth.Sc, B.Med.Sc, B.Sc students or permission of Head of Discipline

Assessment: to be advised at start of year, includes literature review, research seminars & thesis

Students requiring further information concerning syllabuses and work required for the Honours degree are advised to consult the Head of Discipline as early as possible. Potential projects are listed on the discipline web site.

Ophthalmology an Visual Sciences

OPHTHAL 4000A/B

Honours Ophthalmology Part 1 & 2

24 units - full year

Restriction: Available to B Med Sc & B Health Sc students only, or by permission of the Head of School

Assessment: details provided at start of academic year

Students requiring further information are advised to consult the Head of Discipline

Oral Health

ORALHLTH 1201AHO/BHO

Dental and Health Science IOH Part 1 & 2

6 units - full year

Up to 7 hours per week

Restriction: Available to BOH students only

Co-Requisite(s): DENT 1202AHO/BHO, DENT 1203AHO/BHO & DENT 1204AHO/BHO

Assessment: tests, practical assessments, assignments, written exams (OSCA), presentations

This stream aims to introduce students to the oral cavity. It also provides an introduction to the areas which support the practice of an oral health practitioner. Problem-based learning allows students to use a systematic approach to investigating various oral conditions which will affect their prospective client group. In addition to this, students are introduced to the behavioural sciences and psychology relevant to their role in the dental team. Topics include: dental terminology and morphology, preventive dentistry, cariology, fluoride, developmental psychology, behavioural science in dentistry, and nutrition.

ORALHLTH 1202AHO/BHO

Clinical Practice IOH Part 1 & 2

8 units - full year

Up to 1 hour per week

Restriction: Available to BOH students only

Co-Requisite(s): DENT 1201AHO/BHO, DENT 1203AHO/BHO & DENT 1204AHO/BHO

Assessment: tests, practical assessment, assignments, journals, viva voces & written exams

This stream aims to provide students with an opportunity to integrate theoretical and practical skills. Students will be given an opportunity to gain operative experience at the chairside, technical

and office management levels. Topics include infection control, occupational health and safety, dental records, pre-clinical studies, applied dental clinical practice and radiography.

ORALHLTH 1203AHO/BHO

Human Biology IOH Part 1 & 2

6 units - full year

Up to 8 hours per week

Restriction: Available to BOH students only

Co-Requisite(s): DENT 1201AHO/BHO, DENT 1202AHO/BHO & DENT 1204AHO/BHO

Assessment: assignments, tutorial & laboratory exercises, tests, viva voces, written exams

This stream aims to provide the student with the biological grounding upon which the practice of dentistry rests. It is an introduction to the anatomy and physiology of the human body and in particular the teeth and oro-facial regions. Topics include: basic biochemistry, general anatomy and physiology, general histology, oral histology and embryology, anatomy and physiology of the head and neck, microbiology and immunology.

ORALHLTH 1204AHO/BHO

Professional Studies IOH Part1 & 2

4 units - full year

Up to 4 hours per week

Restriction: Available to BOH students only

Co-Requisite(s): DENT 1201AHO/BHO, DENT 1202AHO/BHO & DENT 1203AHO/BHO

Assessment: Written reports, test paper, tutorial participation and group assignments

This course has been designed to introduce concepts of academic and health communication designed to develop student's research skills to support study, the students' role as a graduate oral health professional and the requirement for continual professional development/research. Evidence-based dentistry will provide students with an appreciation of the nature and scope of statistics applied to dentistry. It will provide the students with an understanding of different study designs used in dental research and a working knowledge of basic statistics, interpretation and data analysis. Topics will be introduced in resource lectures, online learning mediums and workshops. Problem-based learning topics will be presented where applicable and student learning will be supported by independent and group research and discussion. The student is also required to monitor their own learning by providing feedback to each other as well as incorporating feedback from colleagues and staff.

ORALHLTH 2201AHO/BHO

Dental & Health Science IIOH Part 1 & 2

4 units - full year

Up to 7.5 hours per week

Restriction: Available to BOH students only

Pre-Requisite(s): DENT 1201A/BHO & DENT 1200HO

Co-Requisite(s): DENT 2202AHO/BHOH, DENT 2203AHO/BHO & DENT 2204AHO/BHO

Assessment: tests, assignments, viva voces, seminars, written exams

This stream aims to build upon the knowledge gained in first year, as well as introduce new areas of contemporary dental practice. It consolidates the role of the oral health practitioner in community dental health issues and develops the knowledge of cariology, prevention and health promotion. Topics include: cariology, fluoride, community health and health promotion.

ORALHLTH 2202AHO/BHO

Clinical Practice IIOH Part 1 & 2

Up to 21 hours per week

Restriction: Available to BOH students only

Pre-Requisite(s): DENT 1202A/BHO & DENT 1200HO

Co-Requisite(s): DENT 2201AHO/BHO, DENT 2203AHO/BHO & DENT 2204AHO/BHO

Assessment: observation, journals, viva voces, practical exams, written exams

This stream aims to build upon Clinical Practice I with regard to the consolidation of preventive, periodontal and restorative clinical skills, through manikin exercises and provision of treatment for selected patients. Strong emphasis is placed on the ability to consistently apply quality assurance principles and processes in oral health practice.

Topics include clinical dental hygiene practice, operative dentistry (theory & practical), pedodontics, clinical dental therapy practice and periodontics.

ORALHLTH 2203AHO/BHO

Human Biology IIOH Part 1 & 2

4 units - full year

Up to 3 hours per week

Restriction: Available to BOH students only

Pre-Requisite(s): DENT 1203A/BOH & DENT 1200HO

Co-Requisite(s): DENT 2201AHO/BHO, DENT 2202AHO/BHO & DENT 2204AHO/BHO

Assessment: practical tests, viva voces & written exams

This stream aims to prepare the student to understand the medical aspects of clinical dentistry, pharmacology, local anaesthetics and the role of the oral health practitioner in the management of medical and dental emergencies in dental practice. Topics include applied oral microbiology, medicine and pharmacology, pathology, applied oral pathology.

ORALHLTH 2204HO

Professional Studies IIOH

4 units - semester 1

Up to 3 hours per week

Restriction: Available to BOH students only

Pre-Requisite(s): DENT 1200HO

Co-Requisite(s): DENT 2201AHO/BHO, DENT 2202AHO/BHO & DENT 2203AHO/BHO

Assessment: assignments, tests, written exams, journal reviews

This stream aims to equip the student with the skills to analyse and review journal articles. Furthermore, students will have the opportunity to gain skills in the process of collecting, collating and analysing data. Topics include evidence-based dentistry, biostatistics, epidemiology and social context of dentistry.

ORALHLTH 2212A

Clinical Practice IIOH (Modified) Part 1 & 2

10 units - full year

Up to 23 hours per week

Restriction: Bachelor of Oral Health, TAFE SA entry students

Pre-Requisite(s): Advanced Diploma of Oral Health (Dental Hygiene) from TAFE SA

Assessment: Observation, journals, viva voces, practical exams & written exams

A significant focus of Clinical Practice IIOH (Mod) Part 2 is Operative Techniques, based on a Minimum Intervention (MI) philosophy. As the student's understanding of MI dentistry grows through resource sessions and tutorials, the opportunity to develop and refine required psychomotor skills and techniques in the laboratory environment is provided. These skills are then transferred to the clinical setting, where the procedures are performed on patients.

Students will build on their intra-oral radiography skills to include prescription, diagnosis and treatment planning.

ORALHLTH 3201AHO/BHO

Dental & Health Science IIIOH Part 1 & 2

8 units - full year

Up to 3.5 hours per week

Restriction: Available to BOH students only

Pre-Requisite(s): DENT 2201A/BHO & DENT 2200HO

Co-Requisite(s): DENT3202AHO/BHO & DENT3204AHO/BHO

Assessment: assignments, tutorial & seminar presentations, OSCA, presentation patients and viva voces.

This stream aims to further develop and consolidate the student's paedodontic clinical role. In addition the topics of gerodontology and dental public health will also give the student the opportunity to broaden their dental focus.

Topics include paedodontics, gerodontology, dental public health, panoramic radiography, early childhood caries, orthodontics, oral pathology, panoramic radiology and clinical dentistry for dental therapy practice.

ORALHLTH 3202AHO/BHO

Clinical Practice IIIOH Part 1 & 2

12 units - full year

Up to 16 hours per week

Restriction: Available to BDS students only

Pre-Requisite(s): DENT 2202A/BHO & DENT 2200HO

Co-Requisite(s): DENT 3201AHO/BH & DENT3204AHO/BHO

Assessment: clinical practice, presentation of patient reports and viva voces

This stream aims to further develop the student's preventive, periodontal and operative role as an oral health practitioner. Topics include dental therapy practice, dental hygiene practice and clinical radiology.

ORALHLTH 3204AHO

Oral Health Elective IIIOH Part 1 & 2

4 units - full year

Up to 7 hours per week

Restriction: Available to BOH students only

Pre-Requisite(s): DENT 2200HO

Co-Requisite(s): DENT 3201AHO/BHO & DENT3202AHO/BHO

Assessment: written reports, presentations

This stream aims to provide the student with the necessary research skills to undertake a major study and the opportunity to focus on a major research assignment to enhance their role as an oral health practitioner. Topics include research methodology and a major assignment.

Orthopaedics and Trauma

ORT&TRAU 4000AHO/BHO

Honours Orthopaedics and Trauma Part 1 & 2

24 units - full year

Restriction: Available to B Med Sc students only, or appropriately qualified B Health Sc students, or by permission of the Head of School

Assessment: to be advised at start of year

Students requiring further information concerning syllabuses and work required for the Honours degree of Bachelor of Medical Science are advised to consult the Head of the appropriate department as early as possible.

Paediatrics

PAEDIAT 4000AHO/BHO

Honours Paediatrics Part 1 & 2

24 units - full year

Restriction: Available to B Med Sc & B Sc students only, appropriately qualified B Health Sc students, or by permission of the Head of School

Assessment: details available on the Discipline of Paediatrics web site; includes project proposal, literature review, thesis

Students requiring further information concerning syllabuses and work required for the Honours degree of Bachelor of Medical Science are advised to consult the Head of the appropriate discipline as early as possible.

Pathology

PATHOL 2200

Biology of Disease II

3 units - semester 2

Up to 3 hours per week

Restriction: Available to B Health Sci & B Psych (Hons) students only

Pre-Requisite(s): ANAT SC 1102 & ANAT SC 1103

Assessment: Assignments, exam

The course provides a general introduction to pathology, i.e. the scientific study of disease. Topics covered include the classification, causes and mechanisms of basic tissue processes which underlie disease (e.g. inflammation, ischaemia, neoplasia) as well as discussion of the pathology of some common diseases (e.g. diabetes mellitus, ischaemic heart disease, and some cancers).

PATHOL 3003

General Pathology IIIHS

6 units - semester 1

Up to 6 hours per week

Restriction: Available to B Health Sci, B Sc & B Psych (Hons) students only

Pre-Requisite(s): PATHOL 2000, PHYSIOL 2003 & ANAT SC 2104

Assessment: exams, assignments

In General Pathology IIIHS the main basic pathological processes are reviewed and we look in more depth and at a wider variety of common pathological conditions in Biology of Disease II General

topics covered include the nature and causes of cell injury and death; adaptive cellular changes; healing and repair, thrombosis, embolism and infarction and neoplasia. More detailed attention is given to cardiovascular, pulmonary and gastrointestinal diseases and common cancers and the pathology is correlated with major clinical symptoms and signs. In addition, tutorials and practical classes provide an opportunity for students to examine macroscopic and microscopic specimens illustrating the pathology covered in lectures. A background knowledge of basic anatomy, histology and physiology is expected.

PATHOL 3100

Topics in Forensic Sciences

3 units - semester 2

Up to 2 hours per week

Restriction: Available to B Health Sci, B Sc & B Psych (Hons) students only

Pre-Requisite(s): PATHOL 3003

Assessment: exams, assignments

The aim of this course is to provide students with an overview of a variety of topics within the area of forensic sciences including pathology, toxicology, anthropology and odontology. It is not intended to provide students with a detailed knowledge of any of these areas, but rather provide insight into how they may be used to investigate crime. Topics to be covered include the changes in the body with death and decomposition; the pathology of wounds; burns; disaster victim identification; sudden death in children and adults; medical misadventure and drug related deaths. \A background knowledge of basic anatomy and physiology is expected.

PATHOL 3200

Neurological Diseases

3 units - semester 2

Up to 5 hours per week

Restriction: Available to B Health Sc & B Psych (Hons) students only

Pre-Requisite(s): B Health Sci students - Pass in PATHOL 2000; Other Students - pass in one or more of PHYSIOL 2004, ANAT SC2104 or equivalent (or approval of Course Coordinator)

Assessment: Exams, assignments, oral presentation

The aim of this course is to provide students with an understanding of a range of diseases and conditions affecting the central and peripheral nervous systems. General topics covered include the causes and consequences of raised intracranial pressure, headache, infections, tumours and dementia, as well as more specific disorders such as epilepsy and multiple sclerosis. Traumatic brain and spinal cord injury, stroke and the effects of alcohol and illicit drugs on the brain will also be discussed. The practical classes provide an opportunity for students to examine macroscopic and microscopic specimens illustrating selected pathologies covered in lectures.

PATHOL 4000A/B

Honours Pathology Part 1 & 2

24 units - full year

Restriction: Available to B Med Sc & B Health Sci students only, or by permission of Head of Discipline

Assessment: research project - critical literature review, thesis/journal article, research seminar and thesis defence 75%, components non related to the research project - grant proposal; seminar attendance and supervisor mark - 25%

The focus of Honours is to conduct a detailed research project under the guidance and supervision of an academic staff member(s). In addition, each student will also have regular contact with the Honours Coordinator. The Honours program is of 40 weeks duration and enrolments are in December/January for the February program. Prospective candidates should consult the Honours coordinator and the potential supervisor(s) towards the end of their final year of the degree program in order to secure a place in the Honours program. More information can be found at www.adelaide.edu.au/health/anat/students/honours.html

Pharmocology

PHARM 2100

Drugs, Chemicals and Health

3 units - semester 1

Up to 4 hours per week

Restriction: Available to B Health Sci, B Psych (Hons) & B Eng (Pharmaceutical Eng) students only

Pre-Requisite(s): ANAT SC 1102, GENETICS 1000A/B or ENV BIOL 1000A/B (or equivalent)

Assessment: exam on lecture material, assessment test, assignments

The course introduces students to basic pharmacological concepts and principles needed to understand the effects of drugs in humans. Students will gain an appreciation for how drugs interact with cellular target molecules, as well as for the cellular and physiological responses resulting from such interactions. These concepts will be illustrated by examining major drug classes and their use in the treatment of major human diseases, including drugs that influence the central nervous system.

PHARM 2200

Drugs, Chemicals and the Environment

3 units - semester 2

Up to 4 hours per week

Restriction: Available to B Health Sci, B Psych (Hons) & B Eng (Pharmaceutical Eng) students only

Pre-Requisite(s): PHARM 2100

Assessment: exam on lecture material, assessment test, assignments

The course will provide an appreciation for the potential negative health effects accompanying human exposure to foreign and naturally occurring chemicals. Specific classes of toxic substances and the mechanisms underlying their adverse effects will be surveyed. Students will also develop an understanding of the methods used by toxicologists to ensure chemicals that enter the human environment are safe.

PHARM 3010

Pharmacology A III

6 units - semester 1

Weekly lectures, tutorials, practical sessions

Restriction: Available to B Health Sc, B Psych (Hons), B Sc, B Sc (Biomed Sc), B Sc (Biotech) & Eng students only

A quota will apply

Pre-Requisite(s): At least 6 units in either of Level II Biochemistry, Chemistry or Physiology courses or a minimum of 3 units in Level II Pharmacology or Level II Pathology

Assessment: exam on lecture material, practical reports, assessment test

The course will provide students with an understanding of how new drugs are discovered and developed. Students will also gain an understanding of drug-receptor interactions and the problems encountered during the identification and design of new chemicals with promising pharmacological actions. The practical component of this course will provide laboratory and experimental proficiency for students, ensuring they gain an appreciation for studying drug actions at different levels of biological organisation, ranging from simple in vitro systems (e.g. organ baths) to whole animals.

PHARM 3011

Pharmacology B III

6 units - semester 2

Weekly lectures, tutorials, practical sessions

Restriction: Available to B Health Sc, B Psych (Hons), B Sc, B Sc (Biomed Sc) & B Sc (Biotech) students only

A quota will apply

Pre-Requisite(s): PHARM 3010

Assessment: exam on lecture material, research reports, assessment test

Particular emphasis is given to the key factors that influence and govern the effects of drugs within the body, ranging from molecular determinants to physiological factors that control disposition of drugs within the body. In addition, students will cover topics in toxicology and selected systems pharmacology. The laboratory component of the course will provide proficiency in the design and execution of research projects using modern experimental methodologies. Students will explore a range of contemporary pharmacological problems while working on 10 week projects that span such areas as pharmacogenetics, pharmacokinetics, drug abuse, neuropharmacology and molecular toxicology.

PHARM 4000A/B

Honours Pharmacology Part 1 & 2

24 units - full year

Pre-Requisite(s): Satisfactory performance in Level III courses offered by Discipline of Pharmacology or acceptable alternative (subject to approval of Head of Discipline)

Assessment: to be advised at start of year

Intending candidates should consult the Honours Coordinator, Discipline of Pharmacology during the final year of their program.

Candidates are required to give their full attendance to a special program of study and experimental work in the pharmacology laboratory, and to participate in a research project under the direction of a member of the academic staff. The results of the research project are to be embodied in a thesis in a form specified by the Discipline. Seminar presentations and a written assignment will also be required.

PHARM 4200

Drug Discovery and Development

3 units - semester 1

Up to 6 hours per week

Restriction: Completion of 3rd year B.E (Pharm)

Pre-Requisite(s): PHARM 2100 & completion of Level III of B Pharm

Assessment: Exam on lecture material, assessment test, workshop presentations, assignments

Overall Aim: To provide an appreciation of drug discovery and development in an international setting. Students will gain an understanding of the problems encountered during the identification and design of new chemicals with promising pharmacological actions. The students will understand the Drug Development process from the time of first administration of an entity produced by the drug discovery process to humans through to registration of a drug with the relevant governmental agencies.

Summary of Course Content:

1. Historical Aspects Milestones in Drug Discovery
2. Finding Drug-like Molecules: Chemical Consideration Physicichemical Factors - Physiological
3. New Methods in Drug Design - Computational & Combinatorial Approaches New Methods in Identifying Drug Targets - proteomics, genomics, etc
4. From Drug-like entity to the bedside, overview of drug development
5. Pre-clinical toxicology
6. Ethical issues in clinical trials. Design and statistical considerations
7. The 'metrics': what outcomes should be measured (pharmacokinetic, pharmacodynamic, surrogate Pharmacodynamic, adverse effects, questionnaires, quality of life outcomes)
8. Phase I Human Studies
9. Phase II Human Studies including special patient groups
10. Phase III Human studies including special patient groups
11. Bioequivalence and pharmacokinetics (clinical studies versus marketed formulation: effect of different formulations on PK and outcomes)
12. Good clinical practice. Post-marketing/pharmacovigilance
13. Biotechnology products
14. Drug registration

Physiology

PHYSIOL 2510

Human Physiol: Heart, Lung & Neuromuscular Systems

3 units - semester 1

Up to 9 hours per week

Available for Non-Award Study

Pre-Requisite(s): (CHEM 1100 & CHEM 1200 or CHEM 1101 & CHEM 1201) or (BIOLOGY 1101 & BIOLOGY 1201 or ANAT SC 1102 & ANAT SC 1103) or 6 units of other Level I quantitative sciences with approval of Head of Discipline of Physiology or Head of School (MBS)

Assumed Knowledge: 6 units of Level I Chemistry or Biology

Incompatible: PHYSIOL 2511 or PHYSIOL 2101

Assessment: End of semester written exam, practical assessments

Physiology is the study of the function of the human body. This course is designed to develop critical skills and provide a foundation in human physiology with an emphasis on homeostasis and human performance. The major lecture topics covered are cellular physiology, neuromuscular physiology, and the cardiovascular and respiratory systems. Topics include how the cardiovascular and respiratory systems adapt in normal conditions and during challenges such as exercise and stress. In the practical laboratory sessions, students undertake a human-based research project that includes the testing of a hypothesis, review of the relevant research literature, collection and analysis of data, and presentation of results and conclusions. The practical component is supported by workshops that lead to a deeper understanding of research methods, ethical considerations, experimental techniques, and data processing in scientific research.

PHYSIOL 2520

Human Physiology IIB: Systems & Homeostasis

3 units - semester 2

Up to 7 hours per week

Available for Non-Award Study

Pre-Requisite(s): (CHEM 1100 & CHEM 1200 or CHEM 1101 & CHEM 1201) or (BIOLOGY 1101 & BIOLOGY 1201 or ANAT SC 1102 & ANAT SC 1103) or 6 units of other Level I quantitative sciences with approval of Head of Discipline of Physiology or Head of School (MBS)

Assumed Knowledge: Level I Chemistry or Biology

Incompatible: PHYSIOL 2521 or PHYSIOL 2201 or Equiv

Assessment: End of semester written exam, tutorial assessments, practical assessments.

Physiological interactions between the nervous system and endocrine system maintain homeostasis and health. Themes in this course are the functions of the central and peripheral nervous system; the renal system (kidney) in regulation of fluid and ion levels; the gastrointestinal tract (gut) in providing nutrition to the body; and the endocrine (hormone) system; and integration of the two interacting control systems involving hormonal and neural signaling. In the practical laboratory sessions, students undertake a human-based research project that includes the testing of a hypothesis, review of the relevant research literature, collection and analysis of data, and presentation of results and conclusions. The practical component is supported by workshops that lead to a deeper understanding of research methods, ethical considerations, experimental techniques, and data processing in scientific research.

PHYSIOL 3000

Advanced Systems Physiology III

6 units - semester 2

Up to 8 hours per week

Available for Non-Award Study

Pre-Requisite(s): PHYSIOL 2510 & PHYSIOL 2520 or equivalent

Incompatible: PHYSIOL 3102

Assessment: Written exams, research project - components include laboratory performance and research report

Advanced Systems Physiology consists of lecture and practical streams. This course is designed to challenge and to stimulate your interest in the integration of multiple organ systems that are necessary for whole body function. We will use examples focusing on voluntary and involuntary human movement and the complex integration of the cardiovascular system to enable human function. The research-focused lecture stream offers a series of interrelated modules covering the following main topics: neural control of movement, cardiovascular health and disease and integrative physiology. An added dimension to many topics is the physiological basis of the development of common diseases and changes that occur throughout the lifespan. The research practical stream, Physiology in Action, involves a research project supported by a series of workshops and tutorials which are designed to develop your research skill base, including analysis and interpretation of results and to improve skills related to communicating results. Students will be given the opportunity to read widely in chosen areas of the course and to review some research areas. Small-group discussion of specific research papers and research topics will be an important part of Physiology in Action.

PHYSIOL 3001

Neurobiology III

6 units - semester 1

Up to 8 hours per week

Available for Non-Award Study

Pre-Requisite(s): PHYSIOL 2510 & PHYSIOL 2520 or equivalent

Incompatible: PHYSIOL 3102 & PHYSIOL 3003

Assessment: Written exams on lecture material, Research project assessed via supervisors assessment of laboratory performance, group methodology poster, opinion/editorial research article, individual literature review

This course consists of 2 parallel streams, namely: Advanced Neurobiology and Physiology in Action. The Advanced Neurobiology stream of this course broadly encompasses the study of central nervous system function with emphasis on the physiological basis for sensation and neural processing by the brain. Issues that will be covered in depth include the special senses and advanced cellular neurophysiology with emphasis on both peripheral coding and central processing, the enteric nervous system and the role of ion channels in cellular neurobiology. The Physiology in Action practical stream aims to provide students with an introduction to 'hands on' research and the research projects are supervised by trained researchers and supported by a series of workshops. Students work in small groups and have access to equipment appropriate for investigations into a current research question in a professional research environment. The workshops cover topics related to developing a research project and composing a formal proposal. Practical groups participate as a team in preparation of a presentation of their research methodology and findings in poster form.

PHYSIOL 3003

Neurobiology III (Med Surg)

6 units - semester 1

Up to 10 hours per week

Restriction: Available to BOenol students only

A quota of 36 applies

Pre-Requisite(s): Completion Level II MBBS

Incompatible: PHYSIOL 3001 & PHYSIOL 3102

Assessment: Written exams on lecture material, Research project assessed via supervisors assessment of laboratory performance, group proposal presentation (via web or PowerPoint), individual literature review.

This course is designed to challenge students with advanced subject material in neurophysiology and experience in cutting edge research. The former is achieved in a research-focused lecture stream, which is identical to that of PHYSIOL 3001 Neurobiology III and broadly encompasses the study of central nervous system function with emphasis on the physiological basis for sensation and neural processing by the brain. Issues that will be covered in depth include the special senses and cellular neurophysiology with emphasis on both peripheral coding and central processing, the enteric nervous system and the role of ion channels in cellular neurobiology. The Biomedical Research Unit consists of a practical project based in a working research laboratory and a research-based tutorial component. In the tutorial component, students work with an experimental research expert/mentor to consider complex scientific issues, generate hypotheses and a research proposal for a cutting edge project.

PHYSIOL 3004

Advanced Systems Physiology III (Med Surg)

6 units - semester 2

Up to 13 hours per week

Restriction: Available to MBBS students only

A quota of 36 applies

Pre-Requisite(s): Completion Level II MBBS

Incompatible: PHYSIOL 3000 & PHYSIOL 3202

Assessment: Written exams, research project - components include laboratory performance and research report.

This course is designed to challenge students with advanced subject material in physiology and experience in cutting edge research. The former is achieved in a research focused lecture stream, which is identical to that of advanced systems physiology. The latter is derived in the Biomedical Research Unit, which consists of a practical project based in a working research laboratory and a research-based tutorial component. In the tutorials students consider complex scientific issues, generate hypotheses, identify and prioritise related learning issues, gather relevant material and apply the new knowledge back to the problem.

PHYSIOL 3005

Human Movement Physiology III (Sports Eng)

6 units - semester 2

Up to 8 hours per week

Restriction: Available to BE(Sports) students only

Pre-Requisite(s): PHYSIOL 2510 or equivalent

Incompatible: PHYSIOL 3202 & PHYSIOL 3004

Assessment: 2 written exams, research project - components include laboratory performance and research report.

Human Movement Physiology consists of lecture and practical streams. This course is designed to challenge and to stimulate your interest in the integration of multiple organ systems that are necessary for whole body function. We will use examples focusing on voluntary and involuntary human movement and the complex integration of the cardiovascular system to enable human function. The research-focused lecture stream offers a series of interrelated modules covering the following main topics: neural control of movement, cardiovascular health and disease and integrative physiology. An added dimension to many topics is the physiological basis of the development of common diseases and changes that occur throughout the lifespan. The research practical stream, Physiology in Action, involves a research project supported by a series of workshops and tutorials which are designed to develop your research skill base, including analysis and interpretation of results and to improve skills related to communicating results. Students will be given the opportunity to read widely in chosen areas of the course and to review some research areas with a sports engineering emphasis. Small-group discussion of specific research papers and research topics will be an important part of Physiology in Action.

PHYSIOL 4000A/B

Honours Physiology Part 1 & 2

24 units - full year

Restriction: Available only to students admitted to the relevant Honours program

Assessment: Presentation of research seminar & research poster; laboratory performance; critique of scientific manuscript, written project synopsis, thesis & oral defence of thesis

Candidates are required to demonstrate an original and critical approach in the assimilation of current knowledge in an area of physiological research and engage in experimental work in this research field for a full academic year in the Discipline of Physiology or in an affiliated area under the general direction of the Head of the Discipline of Physiology. A handbook describing the range of research projects to be offered during the Honours year is available from The School of Molecular and Biomedical Science from October of the preceding year. Each project will be supervised by one or more members of the academic or affiliate staff who will provide the student with a series of key references for each particular research project. Students will also be expected to attend a series of Research Skills and Professional Development workshops held throughout the year.

Psychiatry

PSYCHIAT 1001

Person, Culture and Medicine I

3 units - semester 1 or semester 2

Restriction: Available to B Health Sci, B Psych (Hons), B Psych Sci & B Soc Sci students only

Incompatible: PSYCHIAT 1000A/IB

Assessment: essay, participation, formative assessment provided to students for summative tasks

PCM is an interdisciplinary course that combines theoretical perspectives from psychology, physical anthropology and cultural anthropology, and applies these to the complex human processes of eating, intimate relationships, pain and death and dying. The course requires attendance at three-hour seminar/tutorial blocks. Please be aware that PCM is not a course about Psychiatry, but is a course about food, sex, pain and death and how these human processes can be considered from different disciplinary orientations. The course will be of interest to people interested in a clinical career as a medical practitioner or a psychologist (or other health care professional), but will also have potential relevance to those interested in cross-cultural issues, philosophical questions about behaviour and interdisciplinary approaches to questions related to behaviour.

PSYCHIAT 2200

Emotion Culture & Medicine II

3 units - semester 2

Up to 3 hours per week

Restriction: Available to B Health Sci, B Psych (Hons), B Psych Sci & B Soc Sci students only

Assumed Knowledge: PSYCHIAT 1001

Incompatible: ECM in any previous year

Assessment: 2 x 2,000 word essays, a reflective portfolio and tutorial attendance

ECM II is an interdisciplinary course that combines theoretical perspectives from psychology, neurobiology and cultural anthropology and applies these to the complex human emotional states, including happiness, sadness, anger and fear. Please be aware that ECM is not a course about Psychiatry, but is a course about emotions and how the understanding of human emotion can be considered from different disciplinary orientations. The course will be of interest to people interested in a clinical career as a medical practitioner or a psychologist (or other health care professional), but will also have potential relevance to those interested in cross-cultural issues, philosophical questions about behaviour and interdisciplinary approaches to questions related to behaviour.

PSYCHIAT 4000AHO/BHO

Honours Psychiatry Part 1 & 2

24 units - full year

Students requiring further information concerning syllabuses and work required for the Honours Degree of Bachelor of Medical Science are advised to consult the Head of the appropriate department as early as possible.

Psychology

PSYCHOL 1000

Psychology IA

3 units - semester 1

Up to 4 hours per week

Available for Non-Award Study

Incompatible: 5104 (pre-2002), PSYCHOL 1000A/B

Assessment: Assignments, practical exercises, research participation, multiple choice exam

This course, together with PSYCHOL 1001, provides an introduction to the basic concepts and core topics within contemporary psychology. The two courses may be taken singly or in combination. Core topics covered over the year will include the development of the individual over the lifespan; the study of the person in a social context; differences between people with respect to their intelligence and personality; issues related to individual adjustment and maladjustment; the biological bases of behaviour; the interpretation by the brain of sensory signals from the external environment; the mechanisms underlying learning; the encoding, storage and retrieval of information; the nature of motivation and emotion; culture and cross-cultural psychology. The courses will also provide an introduction to the methodological approaches employed by psychologists to study these topics. Major findings to emerge from psychological research will be presented, and the practical significance of such work will be discussed. Practical work will address the conventions of psychological report-writing and the ethical principles underlying psychological research and practice.

PSYCHOL 1001

Psychology IB

3 units - semester 2

Up to 4 hours per week

Available for Non-Award Study

Incompatible: 5104 (pre-2002), PSYCHOL 1000A/B

Assessment: Assignments, practical exercises, research participation, multiple choice exam

This course, together with PSYCHOL 1000, provides an introduction to the basic concepts and core topics within contemporary psychology. The two courses may be taken singly or in combination. Core topics covered over the year will include the development of the individual over the lifespan; the study of the person in a social context; differences between people with respect to their intelligence and personality; issues related to individual adjustment and maladjustment; the biological bases of behaviour; the interpretation by the brain of sensory signals from the external environment; the mechanisms underlying learning; the encoding, storage and retrieval of information; the nature of motivation and emotion; culture and cross-cultural psychology. The courses will also provide an introduction to the methodological approaches employed by psychologists to study these topics. Major findings to emerge from psychological research will be presented, and the practical significance of such work will be discussed. Practical work will address the conventions of psychological report-writing and the ethical principles underlying psychological research and practice.

PSYCHOL 2004

Doing Research in Psychology

3 units - semester 1

Up to 3 hours per week

Pre-Requisite(s): PSYCHOL 1000 & PSYCHOL 1001 or equivalent

Incompatible: PSYCHOL 2001

Assessment: Online exercises, research participation, written practical report, written exam

The course presents an introduction to current approaches to enquiry in psychology. It considers the relative merits and shortcomings of these approaches and attempts to locate them within a broad framework of epistemological understanding. Consideration will be given to methods ranging from the interpretative to the experimental, and to appropriate procedures for analysing and drawing conclusions from the data such methods produce.

PSYCHOL 2005

Foundations Health & Lifespan Development

3 units - semester 2

Up to 3 hours per week

Pre-Requisite(s): PSYCHOL 1000 & PSYCHOL 1001 or equivalent

Incompatible: PSYCHOL 2000A/B & PSYCHOL 2002 or PSYCHOL 2003 IB

Assessment: Written assignments, tutorial, written exam

This course builds on the components of mental health and developmental psychology introduced in Psychology IA and IB. The course work covers two broad thematic areas. The first aims to build a solid foundation in understanding of development across the lifespan by considering select topics in development during childhood, adulthood and old age. The second provides an introduction to evidence-based psychological assessment, treatment and prevention for mental health behaviours as well as coverage of select topics in biological bases of health and behaviour. The course draws on the biopsychosocial (mind - body) perspective that recognises that health and other behaviours are determined by the interaction of biological mechanisms, psychological processes and social influences.

PSYCHOL 2006

Foundations of Perception & Cognition

3 units - semester 1

Up to 3 hours per week

Pre-Requisite(s): PSYCHOL 1000 & PSYCHOL 1001 or equivalent

Incompatible: PSYCHOL 2000A/B & PSYCHOL 2002 or PSYCHOL 2003

Assessment: Online exercises, written assignments, written exam

This course builds on the course components of the biological bases of behaviour, perception, and cognition studied in Psychology IA and Psychology IB. The aim of this course is to build a solid foundation in both perception and cognition. Students will examine how the brain processes sensory information to create a coherent representation of the environment and to allow individuals to perform daily activities. There will be a focus on the visual system, from the simple detection of light to using visual information to control movements. Building upon this basis, students will examine topics in cognition such as attention, memory, concept learning, categorisation, judgement and decision making, and language. The focus will be upon understanding basic principles and theories as well as their potential application to real world problems such as eyewitness testimony, autobiographical memory, language development, reading and problem solving.

PSYCHOL 2007

Psychology in Society

3 units - semester 2

Up to 3 hours per week

Pre-Requisite(s): PSYCHOL 1000 & PSYCHOL 1001 or equivalent

Incompatible: PSYCHOL 2000A/B & PSYCHOL 2002 or PSYCHOL 2003

Assessment: Online exercises, written assignment, written exam

This course seeks to build upon Level I Psychology, specifically areas relating to social, cross-cultural and organisational psychology. Social psychology lectures will include topics central to contemporary research in social cognition drawing specifically on experimental research on explicit and implicit processes in social perception. It will consider the social and psychological functions of stereotyping and the extent to which this psychological process can be brought under intentional control. Cultural psychology lectures will examine the ways in which the culture we are born into exerts a powerful influence on all aspects of our lives and how psychological knowledge itself can be shaped by cultural assumptions and values. Particular emphasis will be placed on indigenous issues in psychology and the importance of understanding these in the context of clinical and applied work with indigenous people. Organisational psychology will provide students with an understanding of how psychology can be used to enhance selection, recruitment and performance assessment in organisations, the impact on work performance of organisational culture, and the role of the organisational psychologist.

PSYCHOL 3020

Doing Research in Psychology: Advanced

3 units - semester 2

Up to 3 hours per week

Pre-Requisite(s): The completion of all Level II core Psychology courses

Incompatible: PSYCHOL 3000

Assessment: Practical report, 2 minor assignments, written exam

The course will introduce a range of statistical methods and issues in psychological enquiry that are more complex than those taught at Level II. A wide range of issues relating to research design will be covered, including ethical considerations in psychological research. Consideration will also be given to the inferences that have been made by researchers using particular research designs in specific areas of psychological interest.

PSYCHOL 3021

Health & Lifespan Development Psychology

3 units - semester 2

Up to 3 hours per week

Pre-Requisite(s): The completion of all Level II core Psychology courses

Incompatible: PSYCHOL 3003 & PSYCHOL 3017

Assessment: Written reports, tutorial, written exam

This course builds on the material of the foundation course. The underpinning theme is: the psychological, behavioural and social origins of lifespan development, illness, well-being and health enhancing behaviours. Lectures will focus on advanced topics in child development, mental health and physical health, and will include developing skills in critical evaluation and knowledge applications.

PSYCHOL 3022

Individual Differences, Personality & Assessment

3 units - semester 1

Up to 3 hours per week

Pre-Requisite(s): The completion of all Level II core Psychology courses

Incompatible: PSYCHOL 3014

Assessment: Online exercises, written practical report, written exam.

This course addresses the field of Differential Psychology, which is concerned with understanding how and why people differ, despite broad similarities shared by all human kind. It reviews major theories, research methods and findings and how these translate into practices in the fields of intelligence and personality, including assessment. The curriculum builds on knowledge introduced in first and second years.

PSYCHOL 3023

Perception & Cognition

3 units - semester 2

Up to 3 hours per week

Pre-Requisite(s): The completion of all Level II core Psychology courses

Incompatible: PSYCHOL 3018 & PSYCHOL 3019

Assessment: Online exercises, written report, written exam

Perception and Cognition builds upon PSYCHOL 2006 Foundations of Perception and Cognition. Lectures will focus on advanced topics in visual perception, such as depth perception, object recognition, face perception, and the relationship between vision and action, as well as on theories of cognition covering metacognition, learning, categorisation, and language. Tutorials and self-directed learning sessions will introduce students to methods and skills in each of these areas, and will encourage students to evaluate and engage with primary sources.

PSYCHOL 3026

Learning and Behaviour

3 units - semester 1

Up to 3 hours per week

Restriction: PSYCHOL 3013 Learning & Behaviour

Available for Non-Award Study

Pre-Requisite(s): The completion of all Level II core Psychology courses

Assessment: Practical, short quiz (SDL) and written exam

This course provides students with an intermediate and advanced understanding of the theoretical principles of learning theory. It examines the different ways in which these principles have been conceptualised by researchers, the experimental evidence in support of learning principles, the links and differences between animal and human learning and the ways in which these principles can be applied to human behaviour. There is a focus on the role of both the environment and evolution in the derivation of behaviour and human principles as well as a balance between the analysis of behaviour as an experimental and applied phenomenon. Students will be shown how these principles are applied in the fields of clinical psychology and marketing and other areas.

PSYCHOL 3027

Psychology, Science & Society

3 units - semester 1

Up to 3 hours per week

Restriction: PSYCHOL 3010 Social Psychology, PSYCHOL 3009 Metapsychology

Available for Non-Award Study

Pre-Requisite(s): The completion of all Level II core Psychology courses

Assessment: Practical, short quiz (SDL) and written exam

The first part of the course on social psychology builds upon existing knowledge and examines the social principles of processes that enable us to understand human behaviour. Some of these topics include the ways in which people develop categories and stereotypes, develop attributions about the behaviour of others, and how identities (both individual and group) are structured and developed. The critical component of the course looks at psychology as a complex human enterprise that is concerned with the production, dissemination, and application of psychological knowledge claims. The broad aim of the course is to show how our understanding of psychology can be aided by recent developments in related disciplines such as philosophy, history, sociology and politics.

PSYCHOL 4000A/B

Honours Psychology Part 1 & 2

24 units - full year

Pre-Requisite(s): see School for entry requirements

Assessment: coursework exams comprising of both elective and compulsory topics, empirical research thesis

Honours involves the development, testing, and reporting of an original research question formulated by the candidate and carried out under the primary supervision of an academic member of staff, culminating in a 12,000+ word thesis. Students also engage in assessable coursework that focuses on [a] methodology and statistics; [b] contemporary critical issues in psychology; [c] specific areas of psychology that reflect the breadth and depth of the discipline of Psychology as taught in the School; and [d] a full-year seminar series devoted to developing thesis-specific and research presentation skills.

Public Health

PUB HLTH 1001

Public Health IA

3 units - semester 1

Up to 4 hours per week

Available for Non-Award Study

Assessment: exam, assignments, tutorial & practical participation

How and why have the main causes of illness and death in Australia changed over time? How do we define and measure health and illness? How does where you live, the job you do or your level of income affect your health? How does public health affect the way we think about health and disease? Is health a private or a public responsibility? Why is public health controversial?

The course seeks answers to such questions by drawing on a number of disciplines, including history, politics, ethics, sociology, epidemiology and biostatistics. It takes a population view of health and invites students to develop a critical view about what constitutes a public health issue and about the responses offered to these issues.

PUB HLTH 1002

Public Health IB

3 units - semester 2

Up to 4 hours per week

Available for Non-Award Study

Assumed Knowledge: concepts of health & disease, principles of public health, health status of Australians, descriptive epidemiology & basic biostatistics, public health applied to infectious & chronic disease, role of government in public health in Australia

Assessment: exam, assignments, including media journal, tutorial & practical participation

What strategies for reducing smoking and encouraging exercise are likely to be successful? How important are controls over food safety, water quality and waste disposal? How do ecological issues impact on public health? What political issues are involved in allocating resources for health or maintaining a healthy environment? How is population control a public health issue? What is Australia's approach to the health impact of an ageing population? What are the health needs of indigenous Australians? How does the organisation of health care affect our health?

With the underlying theme of health promotion, Public Health IB seeks answers to such questions by drawing on a number of disciplines, including environmental science, health economics, organisation of health care systems, sociology, social psychology; epidemiology; history, politics and ethics. It takes a population view of health and invites students to develop a critical view about what constitutes a public health issue and about the responses offered to these issues.

PUB HLTH 2100

Public Health Sciences II

3 units - semester 1

Up to 4 hours per week

Restriction: Available to B Health Sci, B Develop St & B Psych (Hons) students only

Pre-Requisite(s): PUB HLTH 1001 & PUB HLTH 1002

Assumed Knowledge: Public Health 1A & 1B - under some circumstances, students who have not taken Public Health IA/IB may be able to enrol but must discuss with course coordinator prior to enrolment

Assessment: exam, assignments, tutorial practical & site visit participation

The overall aim of this course is to equip students with an appreciation of three scientific disciplines that underpin a substantial part of the practice of public health:

- Biostatistics
- Epidemiology
- Occupational and Environmental health science

PUB HLTH 2200

Public Health Inquiry II

3 units - semester 2

Up to 4 hours per week

Restriction: Available to B Health Sci, B Develop St & B Psych (Hons) students only

Pre-Requisite(s): PUB HLTH 1001 & PUB HLTH 1002

Assumed Knowledge: Public Health 1A & 1B - under some circumstances, students who have not taken Public Health IA/IB may be able to enrol but must discuss with course coordinator prior to enrolment

Assessment: 3 written assignments worth a total of 70%, 20% group presentation, 10% participation

This course will provide a detailed background to the major streams of inquiry in public health - in particular, epidemiology and social and political analysis - and their application to the resolution of contemporary problems in public health.

PUB HLTH 3119

Public Health Internship III

6 units - semester 2

Up to 3 hours per week

Restriction: Available to B Health Sc & B Psych (Hons) students only. Following provisional enrolment 10 students will be selected, based on marks in PUB HLTH 1001, PUB HLTH 1002, PUB HLTH 2000, PUB HLTH 2001

Pre-Requisite(s): PUB HLTH 2000 & PUB HLTH 2001, at least 6 units Level III Public Health courses

Assessment: research, tutorial papers

This course provides students with the opportunity to combine workplace experience in Public Health settings with academic study. During the course students complete a substantial research task that involves the application of public health research skills and knowledge to a work environment.

Students are allocated placements from a range of offerings which include the State Office of the Australian Government Department of Health and Ageing, the South Australian Department of Health, Divisions of General Practice, and health promotion and other non-government organisations in the health sector. Final placement will depend upon availability and the application of an internal quota of 10 students.

PUB HLTH 3122

International Health III

3 units - semester 1 or winter semester

Intensive - a minimum of 36 hours

Restriction: Available to B Health Sci, MBBS and Level III B Develop St students only

Assessment: combination of essay, group presentation, written exam

This course introduces students to the basic principles of international health, in order to give them a better understanding of the wider context of health systems in developing and transition countries. The course is designed to provide learning for working with communities and organisations that are responsible for funding and/or providing health care and health promotion in developing and transition countries. The course provides an overview of health systems and public policy issues in low and middle-income countries, and covers concepts such as health transition during development, globalization and health, financing and organisation, as well as the role of the private sector, Non Government Organisations and international organisations.

Issues such as inequities in health financing and delivery are discussed as well. With the help of case studies, the course provides an understanding about the delivery of health care, public health and health promotion in disadvantaged communities. The lectures and case studies discussion highlights the role of communities, clients, community based organisations, public and private sector providers, and funding agencies. Factors facilitating access, quality, cost and fairness of services and programs will be discussed.

PUB HLTH 3500EX

Rural Public Health III

3 units - winter semester

1 week intensive, seminars, workshops and site visits, based in Whyalla

Available for Non-Award Study

Pre-Requisite(s): Previous/concurrent study pf public health, clinical medicine or social and economical development

Assumed Knowledge: Basic concepts and principles of Public Health, including: determinants of health, health differentials and basic research skills

Assessment: based in Whyalla & attendance required at all sessions - mixture of review paper, minor paper, group project & major paper

The Rural Public Health course aims to: Develop understanding of the influence of rurality and remoteness on the health of rural Australia; Increase knowledge and understanding of policy directions in rural health and models of rural and remote health service delivery; Increase skills and knowledge in developing public health strategies to reduce the severity of health risks for rural and remote Australians; Gain skills that are relevant to employment in the health system.

PUB HLTH 3501

Epidemiology in Action III

3 units - semester 2

Up to 3 hours per week

Pre-Requisite(s): PUB HLTH 2000 & PUB HLTH 2001

Assessment: Written assignments, group project and exam

This course focuses on mastery of the epidemiological concepts and measures that are routinely used in public health practice. It demonstrates the essential role of epidemiology in monitoring the health of populations and responding pro-actively to public health problems. The strengths and limitations of epidemiology in this context will also be considered. The course will extend students' ability to access and interpret the epidemiological information contained in reports regularly produced by organisations such as the World Health Organisation, NHMRC and the Australian Institute of Health and Welfare. In addition, skills in reading and understanding systematic literature reviews will be introduced, as these reviews are an increasingly important source of evidence for health-related initiatives, and such skills are highly valued in public health workplaces. This learning will occur through considering a series of topics, such as population management of infectious diseases, health inequalities, population screening, reproductive health, and the assessment of health interventions.

PUB HLTH 3503

Public Health Theory and Practice III

3 units - semester 1

Up to 3 hours per week

Pre-Requisite(s): PUB HLTH 2000 & PUB HLTH 2001

Assessment: A combination of review paper, minor essay, group project and major essay

This course aims to help students to analyse health policies and health systems and to transmit their findings in preparation for a career in public health or a related field. The course invites students to reflect more deeply on current assumptions and practices in public health, while also providing an opportunity for them to further develop practical skills in asking relevant questions, interpreting information, writing reports and transmitting knowledge. There is a focus on the broad context in which health policy is formed and implemented and the value assumptions implicit. The course is delivered in modules built around selected public health priorities which may vary from year to year, but may include the structure and function of the Australian health system, the improvement of Indigenous health and/or the promotion of health weight.

PUB HLTH 3504

Protecting and Promoting Health III

3 units - semester 1

Up to 3 hours per week

Pre-Requisite(s): PUB HLTH 2000 & PUB HLTH 2001

Assessment: A combination of review paper, summary, group project and major essay

This course is designed to provide students with an in-depth understanding of the concepts of protecting and promoting health at individual, group, community and national levels. It begins with a critical review of the determinants of health and health inequalities in Australian and international contexts.

The principles of health promotion and protection, and practical methodologies such as health impact assessment, are then introduced.

Examples of the application of these principles and methods are considered in various contexts, such as workplace health promotion, environmental health protection and community development. The concepts will be illustrated across a range of government sectors, including transportation, housing, agriculture, water supply and waste Management.

PUB HLTH 4000AHO/BHO

Honours Public Health Part 1 & 2

24 units - full year

Restriction: Available to B Med Sc students, appropriately qualified B Health Sci students only, or by permission of Head of Discipline

Assessment: course work, seminar attendance, honours thesis

Students requiring further information concerning syllabuses and work required for the Honours degree of Bachelor of Medical Science or Bachelor of Health Sciences (Honours) in Public Health are advised to consult the Honours Coordinator as early as possible.

Rural Health

RUR HLTH 4000AEX/BEX

Honours Rural Health Part 1 & 2

24 units - full advised

SURGERY 4000AHO/BHO

Honours Surgery Part 1 & 2

24 units - full year

Composition

SURGERY 4002AHO/BHO

Rural Health & Surgery Honours Part 1 & 2

24 units - full year

Composition

Index of Courses

M

N

O

P

R

S

T