CAM001 - Dentistry - University of Adelaide

**Description:**

**Unit Delivery Information:**

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**CAM100 - Foundation Medical Studies (Unit not offered in 2006)**

**Description:** The unit introduces students to concepts of clinical medicine, including communicating with patients, problem solving, literature review, critical assessment and statistical methods, providing a base for future study in the medical curriculum. It provides student's with their first exposure to clinical medicine, through presentation of a range of real-life clinical cases. An Evidence Based Medicine approach to accessing and evaluating medical information is used during the unit, with sessions to develop information literacy skills. The relationship between medical sciences and clinical practice is explored, helping students develop an understanding of how their learning will contribute to future patient management. Students have an opportunity to develop their skills in teamwork and presentation.

**Requisites:** PREREQ - admission to Medicine

**Staff:** Dr R Wood-Baker (Coordinator), and members of the Disciplines of Medicine, Surgery, Paediatrics and Child Health, Obstetrics and Gynaecology, Anatomy and Physiology and Psychiatry

**Teaching Pattern:** 12 hours weekly, lectures, case presentations, tutorials and family visits; 14 weeks

**Assessment:** In-course assessment of written handouts and oral presentation skills (45%). 15-minute end-of-unit examination, which includes a case-based written handout, oral presentation and discussion (55%).

**Recommended Texts:** Greenhalgh T. *How to read a paper. The basics of evidence based medicine*, ISBN 0727915789


**Offered in Courses:** [ M3J ] [ M3B ] [ M4B ]

**CAM101 - Foundations of Medicine 1**

**Description:** This foundations unit aims to give students an organisational framework upon which to base their undergraduate medical studies. This framework will encompass the structural and functional organisation of the body, the skills needed to engage in an active learning environment and an understanding of the role that a medical practitioner plays in the Australian Health Care System and the wider Australian community. Overall this introductory unit has been designed to engage and stimulate whilst giving the appropriate support needed to move from a year 12 educational environment to University learning. This unit will encompass 13 weekly cases focussing on the normal and abnormal structure and function of the skin. This unit and the units that follow, are organised and assessed around 5 Theme areas which incorporate the UTaS generic graduate profile and the Australian Medical Council recommendations regarding knowledge, skills and attitudes required of a medical graduate in Australia and New Zealand.

**Requisites:** PREREQ - CHM5C (or equivalent) PREREQ - PSC5C (or equivalent)

**Staff:** Rob Tennent, Richard Phillips, Ian Barton, Lisa Parker + others TBA

**Teaching Pattern:** The unit is organised around weekly cases. 20 contact hours consisting of 7 lectures/presentations, 13 hours facilitated small group learning sessions, practicals and tutorials.

**Assessment:**

1. Mid-semester formative written exam, Integrated Formative Practical Exam and WebCT Vista MCQs
2. Web CT Quizzes (Type A MCQs) (Themes 1-5) (every 3rd week): 15%
3. Exam 1 (MCQs(33%) and Short answer questions(66%))(Theme 1): 35%
4. Exam 2 (MCQs(20%) and Short answer questions (80%))(Themes 2-5): 35%
5. Integrated Practical Exam (Theme 1): 15%
6. Portfolio (Theme 1-5): Ungraded Pass

Reflective journal entries
Skills log book
Case Based Learning Tasks
Info literacy skills

**Required Texts:** (Students are advised to consult with the unit coordinator prior to purchasing the required texts.)

Medical Science topics
Seeley, Stephens and Tate, *Anatomy and Physiology* (7th ed), ISBN 0072507470
CAM101 - Foundations of Medicine 1

Special Note: The curriculum has 5 themes as an organising principle under which the outcomes are grouped. The 5 themes are: 1. Human Health and Disease; 2. Communication and Collaboration; 3. Community Health and Disease; 4. Personal and Professional Development; 5. Integration. Students must demonstrate satisfactory performance in all 5 themes inorder to successfully complete the unit.

Description: This second foundations unit builds on the first unit by introducing the student to the musculoskeletal system. Addressing the unit of medical education recommended by the World Health Organisation as part of the "Bone and Joint Decade" , students will utilise the communication and active learning skills developed in the first unit to engage in study of thirteen clinical cases focussing on the bones, joints and muscles of the upper and lower limbs and back. In the context of the Australian Health Care System, students will develop history taking and musculoskeletal examination skills while exploring the ethical framework and community context of the provision of primary health care. This unit and the units that follow, are organised and assessed around 5 Theme areas which incorporate the UTaS generic graduate profile and the Australian Medical Council recommendations regarding knowledge, skills and attitudes required of a medical graduate in Australia and New Zealand.

Requisites: PREREQ - CAM101

Staff: Rob Tennent, Richard Phillips, Ian Barton, Lisa Parker + others TBA

Teaching Pattern: The unit is organised around weekly cases. 20 contact hours consisting of 7 lectures/presentations, 13 hours facilitated small group learning sessions, practicals and tutorials.

Assessment: Formative 1. Mid-semester formative written exam, Integrated Formative Practical Exam and WebCT Vista MCQs Summative 1. Web CT Quizzes (Type A MCQs )(Themes 1-5)(every 3rd week): 15% 2. Exam 1 (MCQs(33%) and Short answer questions(66%))(Theme 1): 35% 3. Exam 2 (MCQs(20%) and Short answer questions (80%))(Themes 2-5): 35% 4. Integrated Practical Exam (Theme 1): 15% 5. Portfolio (Theme 1-5): Ungraded Pass Reflective journal entries Skills log book Case Based Learning Tasks Info literacy skills

Required Texts: (Students are advised to consult with the unit coordinator prior to purchasing the required texts.)

a Medical Dictionary

an Atlas of Anatomy:


or


or


or

Gosling JA et al, Human Anatomy Color Atlas and Text, ISBN 0723432961 (intl edn) or 0723431957

or


or

Kierszemaub AL, Histology and Cell Biology , ISBN 0323016391

an Atlas of Histology:


or


Communication

Higgs, J. et al, Communicating in the Health and Social Sciences, ISBN 0195516982

Community Health

Australian Institute of Health and Welfare, Australia_s Health 2004, ISSN 1032-6138


Ethics


Supplementary texts are detailed in the Students handbook for this Unit

Recommended Texts: Reading lists / online references provided for each case

Offered in Courses: [ M3N ]

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either
or
Seeley, Stephens and Tate, Anatomy and Physiology (7th ed), ISBN 0072507470
Sadler TW, Langman's Medical Embryology, ISBN 0683306502

Practical manual: Experiments/Explorations in Human Biology, Univ Tas, 2005
Communication
Higgs, J. et al, Communicating in the Health and Social Sciences, ISBN 0195516982
Community Health
Australian Institute of Health and Welfare, Australia's Health 2004, ISSN 1032-6138

Ethics

Supplementary texts are detailed in the Students handbook for this Unit
Recommended Texts: Reading lists / online references provided for each Case
Offered in Courses: [ M3N ]

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CAM105 - Community Health and Medicine 1

Special Note: the unit is NOT restricted to students enrolled in the Faculty of Health Science. The lecture component of this unit forms part of the first year Pharmacy unit CSA105.

Description: The lecture program examines the nature and effectiveness of the Australian health care system and patterns of morbidity and mortality in Australia. It goes on to introduce topics which will be of ongoing concern, including the role of the social sciences in health, and biomedical ethics, as well as the development of literacy in the effective use of information technology and the capacity for independent study. Medical students are introduced to the ongoing Kids & Families study.

Staff: Mr S Lockwood (Coordinator), Assoc Prof C Newell
Teaching Pattern: 2x1 hr lectures, 1-2 hrs prescribed reading, 2 hrs assignment preparation weekly
Assessment: 3 class tests (90%), 1 assignment (10%). Students are required to pass the unit overall and to score a minimum of 40% in each of the four assessment components.

Required Texts: Readings available online will be prescribed
Recommended Texts: Australia's Health, Australian Institute of Health & Welfare, Canberra, 2002
Offered in Courses: [ M3J ] [ M3B ] [ M4B ] [ R3A ] [ R3K ] [ S3I ]

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CAM206 - Community Health and Medicine 2

Special Note: The unit is NOT restricted to students enrolled in the Faculty of Health Science. On completion of CAM206 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CAM207. Students are required to enrol concurrently in CAM206 and CAM207.

Description: The teaching program is in three parts. The first part examines a range of psychosocial problems in Australia, illustrating the interplay of social, medical, psychological, and cultural determinants of morbidity and the complexities of interpreting psychosocial information.

The second part introduces students to important concepts and techniques in biomedical statistics, epidemiology, and critical appraisal. The third part looks at a range of topics from the social sciences of relevance to medicine, including the impact of adverse life events on health, social support, and coping skills.

Students continue contact with families encountered in First Year under the 'Kids & Families' program.

Requisites: COREQ - CAM207

Staff: Mr S Lockwood (Coordinator)
Teaching Pattern: 2-3x1-hr lectures, 1 hr prescribed reading, 2-3 hrs practical and written assignments weekly
Assessment: 2 hr mid-yr exam (30%), 2-hr end-of-yr exam (30%) biostatistics & epidemiology assessment (20%), other projects/assignments (20%)

Required Texts: Readings accessible on the Internet will be prescribed
Offered in Courses: [ M3J ] [ M3B ] [ M4B ] [ R3A ] [ R3K ] [ S3I ]

Unit Delivery Information:
CAM207 - Community Health and Medicine 2

Special Note: The unit is NOT restricted to students enrolled in the Faculty of Health Science. On completion of CAM206 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CAM207. Students are required to enrol concurrently in CAM206 and CAM207.

Description: The teaching program is in three parts. The first part examines a range of psychosocial problems in Australia, illustrating the interplay of social, medical, psychological, and cultural determinants of morbidity and the complexities of interpreting psychosocial information.

The second part introduces students to important concepts and techniques in biomedical statistics, epidemiology, and critical appraisal.

The third part looks at a range of topics from the social sciences of relevance to medicine, including the impact of adverse life events on health, social support, and coping skills.

Students continue contact with families encountered in First Year under the ‘Kids & Families’ program.

Requisites: COREQ - CAM206

Staff: Mr S Lockwood (Coordinator)

Teaching Pattern: 2-3x1-hr lectures, 1 hr prescribed reading, 2-3 hrs practical and written assignments weekly

Assessment: 2 hr mid-yr exam (30%), 2-hr end-of-yr exam (30%) biostatistics & epidemiology assessment (20%), other projects/assignments (20%)

Required Texts: Readings accessible on the Internet will be prescribed

Offered in Courses: [ M3J ] [ M3B ] [ M4B ] [ R3A ] [ S3 ]

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CAM300 - Introduction to Clinical Studies

Special Note: Start Date for this unit is Tuesday, 15 February 2005

Description: Introduces students to the techniques of history taking and physical examination. The unit includes topics related to the ethical and operational activities of the hospital and student interaction with patients. The unit includes teaching on the application of physiology to clinical practice, an introduction to clinical pharmacology and diagnostic problem solving. The aims are: to ensure students are competent in the techniques of history taking and physical examination; to assist students in understanding the issues related to their interaction with patients in the health care setting; to understand the role of medical sciences in clinical practice. Students are introduced to medical terminology and topics relevant to history taking and physical examination through a series of clinical demonstrations, lectures and ward teaching. A series of lectures illustrate the use of physiology in clinical practice and clinico-pathological sessions are used to demonstrate the relationship between the pathological and clinical disciplines. There is an introduction to pharmacology in the clinical setting and sessions exploring the relationship between the medical profession and pharmaceutical industry.

Requisites: COREQ - CAM320 PREREQ - 2nd year Medicine

Staff: Dr M Dabner (Coordinator), members of the Disciplines of Medicine, Surgery, Paediatrics and Child Health, Psychiatry and Pathology

Teaching Pattern: 7 hrs weekly: lectures (4 hrs), surgical practical sessions (2 hrs), clinical sessions (1 hr), plus additional ward-based self-directed learning (up to 8 hrs)

Assessment: Formative: tutor feedback during clinical teaching sessions;

Summative: 15-minute clinical exam, graded satisfactory or unsatisfactory

The result awarded for this unit is an ungraded pass (UP).


Offered in Courses: [ M3J ] [ M3B ] [ M4B ]

Unit Delivery Information:

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CAM310 - Clinical Specialties

Special Note: the unit is taken in Hobart and selected Rural Health Teaching sites.

Description: This is an integrated program comprising five clinical specialties: Paediatrics & Child Health, Obstetrics & Gynaecology, Psychiatry, General Practice, and Rural Health.

The program is delivered within a nine week block at the Royal Hobart Hospital Clinical School and includes a two week rural placement at a Rural Health Teaching Site and the Clinical Teaching Associates Program (CTA), details of which are in the unit handbook.

The overall aim of the unit is to provide students with an introduction to the clinical specialties and their scope of practice through the building of clinical skills and the integration of theoretical knowledge with clinical practice.

Requisites: PREREQ - CAM300, CAM320 COREQ - CJA315, CJA325

Staff: Dr C Clifford (Unit Coordinator), Prof M Nelson, Dr M Catchpole, Dr J Gartlan, Prof J Walker, Dr G Gartlan, Assoc Prof J Daubenton and additional clinical staff and guests.

Teaching Pattern: 2.5 days a week for 7 weeks and 2 full weeks while on rural placement. Teaching and learning methods include tutorials, clinical attachments, case presentations and self directed learning.
Assessment:

**Formative assessment:**
Formative assessment in the Clinical Specialties Block occurs throughout the tutorial program and formally in week 7 (four written case histories) and in week 9 a four station mini OSCE and one OSLER.

**Summative assessment:**
Summative assessment is carried out at the end of Year 4, Semester 1 and is an integrated examination process covering Medicine, Surgery and Clinical Specialties.

All students have to submit three pieces of work in week 9 of the final block, 1 case history, 1 CAT and 1 OSLER, and have to obtain a pass in all three. Documented satisfactory completion of the Clinical Teaching Associates (CTA) Program in Gynaecology is a requirement for all students.

All students also sit the 'end of year assessment' comprising an integrated 12 station OSCE and an integrated 100 item MCQ/EMQ paper. Students will be required to pass the case history, CAT and OSLER, and obtain a combined pass in the end of rotation assessment and a pass in the OSCE component. Students achieving a borderline result on the OSCE will be offered another OSLER. In order to pass the OSCE, students will be required to pass at least 10 out of 12 stations. Students failing the summative tasks will have the opportunity for short-term remediation in the case of case histories, CATs and OSLERs, or of prolonged remediation in lieu of advanced studies in semester 2 of year 4.

The result awarded for this unit is an ungraded pass (UP).

**NB Bridging students will be examined in exactly the same way except that the summative assessment will take place in November.**

**Required Texts:**
- Lewis IC, Oates RK & Robinson MJ, *Consulting with Children*
- Gill D & O’Brien N, *Paediatric Clinical Examination*
- Robinson TJ & Robertson DM, *Practical Paediatrics*, 4th edn
- Green C, *Toddler Taming*
- Australian Institute of Health and Welfare, *Australia’s Children -- Their Health and Wellbeing*

**Offered in Courses:**  [ M3J ]  [ M3B ]  [ M4B ]

**Unit Delivery Information:**

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**CAM320 - Neuroscience**

**Special Note:** Start Date for this unit is Tuesday, 21 February 2006

**Description:** Enables students to understand the properties, structure, and function of the normal human nervous system, and how these relate to its clinical examination. From this, and learning how to take a neurological history in CAM300 students gain insight into how malfunction of the nervous system can be diagnosed on the basis of knowledge of neuroanatomy and physiology. Students also acquire knowledge of the anatomy of the head and neck, including imaging and surface anatomy. The use of clinical case studies provides opportunities for understanding applied aspects of basic neuroscience.

**Requisites:** PREREQ - 2nd year medicine COREQ - CAM300

**Staff:** Dr D Choi-Lundberg, Dr MI Chuah (Coordinators), and staff of the School of Medicine

**Teaching Pattern:** 30 hours lectures, 30 hours practicals in head and neck anatomy and neuroanatomy, 15 hours dissectional anatomy and 10 hours clinical cases + visual system exam workshop

**Assessment:**

- **Formative:** Several quizzes, 'walk around' practical near the middle of the term;
- **Summative:** 2hr written exam (65%), 1-hr 'walk-around' practical (35%) (50%)

**Required Texts:**
- Medical Research Council, UK, *Aids to the Examination of the Peripheral Nervous System*, ISBN 0702011657

The atlases and textbooks used in the anatomy portions of CHG110 and CHG210 will be used in this course:

- An Atlas of Anatomy:
  - and the following texts:
CAM400 - Advanced Study

**Special Note:** There are quotas on most advanced study programs, but students will normally be able to enrol in their first choice. Inquiries about this unit should be directed to the program coordinator, Associate Professor DP Johns.

**Description:** Semester 2 in Year 4 of the MBBS course is devoted to this unit whereby students may select from a wide variety of advanced study programs offered by clinical and preclinical disciplines. Individual programs may be of either 9 or 18 weeks duration, and occupy 2.5 or 5 days per week. Students are required to select a combination of programs totalling 5 days per week for 18 weeks. Details of program offerings will vary from year to year and this information is available on-line from the School of Medicine's website.

**Requisites:**
- PREREQ - Semester 1 of 4th Year Medicine

**Staff:** Associate Professor DP Johns (Unit Coordinator) and staff within, and associated with, the School of Medicine

**Offered in Courses:** [M3J] [M4J] [M3B] [M4B]

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CAM410 - Clinical Specialties

**Description:** This is an integrated program comprising five clinical specialties: Paediatrics & Child Health, Obstetrics & Gynaecology, Psychiatry, General Practice, and Rural Health. The program is delivered within a nine week block at the Royal Hobart Hospital Clinical School and includes a two week rural placement at a Rural Health Teaching Site and the Clinical Teaching Associates Program (CTA) details of which are in the unit handbook. The overall aim of the unit is to provide students with an introduction to the clinical specialties and their scope of practice through the building of clinical skills and the integration of theoretical knowledge with clinical practice.

**Requisites:**
- PREREQ - CAM320
- PREREQ - CAM300

**Staff:** Dr C Clifford (Unit Coordinator), Prof M Nelson, Dr M Catchpole, Dr J Gartlan, Prof J Walker, Dr G Gartlan, Assoc Prof J Daubenton and additional clinical staff and guests

**Teaching Pattern:** 2.5 days a week for 7 weeks and 2 full weeks while on rural placement. Teaching and learning methods include tutorials, clinical attachments, case presentations and self-directed learning

**Assessment:**
- **Formative assessment:** Formative assessment in the Clinical Specialties Block occurs throughout the tutorial program and formally in week 7 (four written case histories) and in week 9 a four station mini OSCE and one OSLER.
- **Summative assessment:** Summative assessment is carried out at the end of Year 4, Semester 1 and is an integrated examination process covering Medicine, Surgery and Clinical Specialties. All students have to submit three pieces of work in week 9 of the final block, 1 case history, 1 CAT and 1 OSLER, and have to obtain a pass in all three. Documented satisfactory completion of the Clinical Teaching Associates (CTA) Program in Gynaecology is a requirement for all students.

All students also sit the 'end of year assessment' comprising an integrated 12 station OSCE and an integrated 100 item MCQ paper. Students will be required to pass the case history, CAT and OSLER, and obtain a combined pass in the end of rotation assessment and a pass in the OSCE component. Students achieving a borderline result on the OSLER will be offered another OSLER. In order to pass the OSCE, students will be required to pass at least 10 out of 12 stations. Students failing the summative tasks will have the opportunity for short-term remediation in the case of case histories, CATs and OSLERs, or of prolonged remediation in lieu of advanced studies in semester 2 of year 4. The result awarded for this unit is an ungraded pass (UP).

**NB Bridging students will be examined in exactly the same way except that the summative assessment will take place in November.**

**Required Texts:** Generated as part of the tutorial program

CAM416 - Bridging Program

**Special Note:** The result awarded for CAM416 is XX (result shown in another unit). The final result is awarded on completion of CAM417.

**Description:** The Bridging Program aims to bring students with a pre-clinical and basic clinical education from other medical courses, to the standard required for entry into 5th year of the TSOM undergraduate MBBS program. In Semester 1 students complete clinical blocks, in Medicine and in Surgery, the Integrated Teaching Program covering clinical sciences and Pathology, the neurology component of Neuroscience and clinical and ward teaching sessions within Introduction to Clinical Studies.

**Requisites:** PREREQ - an acceptable demonstrated competence in basic clinical skills and pre-clinical sciences equivalent to a 3rd year MBBS student of this University. COREQ - CAM417

**Staff:** Assoc Prof S Sinha (Coordinator) and staff of the School of Medicine

**Teaching Pattern:** students take part in all activities associated with the clinical blocks including ward based activities and tutorials. They attend the prescribed activities of the Integrated Teaching Program including lectures, tutorials, practicals and CPCs and clinical teaching components of Introduction to Clinical Studies and Neurosciences. Attendance at Pathology lectures is optional but students are required to attend all tutorials, practical classes and clinical teaching.

**Assessment:**

Formative assessment:

- 1 OSLER (objective structured long examination record)
- 1 Case History (medicine and surgery) and 4 Case Histories (Clinical Specialties - one each of chronic disease, mental health, child health, and obstetrics/gynaecology) - proformas to be supplied to students
- 1 CAT (critically appraised topic) - 1 written CAT in medicine and surgery, CAT presentations in Clin Specs
- 1 mini OSCE (objective structured clinical examination)

Summative assessment: Summative assessment will take place in a combined form with Medicine, Surgery and Clinical Specialties at the end of Semester 2.

The end of rotation assessment comprises:

- integrated 12 station OSCE (60% weight)
- integrated 100 item MCQ paper, largely EMQ in format (40% weight)

Additionally, students will be required to submit the following at the end of their final block:

- 1 OSLER
- 1 Case History
- 1 CAT

Students will be required to pass the case history, CAT and OSLER, and obtain a combined pass in the end of rotation assessment and a pass in the OSCE component. Students achieving a borderline result on the OSLER will be offered another OSLER. In order to pass the OSCE, students will be required to pass at least 10 out of 12 stations.

The result awarded for this unit is an ungraded pass (UP).

**Required Texts:**
- Edwards CRW et al, *Davidson`s Principles and Practice of Medicine*, ISBN 0443059446 [p/b], 0443060002
- Medical Research Council, UK, *Aids to the Examination of the Peripheral Nervous System*, ISBN 0702011657

**Recommended Texts:**
- Surgery
CAM417 - Bridging Program

**Special Note:** The result awarded for CAM416 is XX (result shown in another unit). The final result is awarded on completion of CAM417.

**Description:** The Bridging Program aims to bring students with a pre-clinical and basic clinical education from other medical courses, to the standard required for entry into 5th year of the TSOM undergraduate MBBS program. In Semester 1 students complete clinical blocks, in Medicine and in Surgery, the Integrated Teaching Program covering clinical sciences and Pathology, the neurology component of Neuroscience and clinical and ward teaching sessions within Introduction to Clinical Studies

**Requisites:** PREREQ - an acceptable demonstrated competence in basic clinical skills and pre-clinical sciences equivalent to a 3rd year MBBS student of this University. COREQ - CAM416

**Staff:** Assoc Prof S Sinha (Coordinator) and staff of the School of Medicine

**Teaching Pattern:** students take part in all activities associated with the clinical blocks including ward based activities and tutorials. They attend the prescribed activities of the Integrated Teaching Program including lectures, tutorials, practicals and CPCs and clinical teaching components of Introduction to Clinical Studies and Neurosciences. Attendance at Pathology lectures is optional but students are required to attend all tutorials, practical classes and clinical teaching

**Assessment:**

**Formative assessment:**
- 1 OSLER (objective structured long examination record)
- 1 Case History (medicine and surgery) and 4 Case Histories (Clinical Specialties - one each of chronic disease, mental health, child health, and obstetrics/gynaecology) - proformas to be supplied to students
- 1 CAT (critically appraised topic) - 1 written CAT in medicine and surgery, CAT presentations in Clin Specs
- 1 mini OSCE (objective structured clinical examination)

**Summative assessment:** Summative assessment will take place in a combined form with Medicine, Surgery and Clinical Specialties at the end of Semester 2.

The end of rotation assessment comprises:
- integrated 12 station OSCE (60% weight)
- integrated 100 item MCQ paper, largely EMQ in format (40% weight)

Additionally, students will be required to submit the following at the end of their final block:
- 1 OSLER
- 1 Case History
- 1 CAT

Students will be required to pass the case history, CAT and OSLER, and obtain a combined pass in the end of rotation assessment and a pass in the OSCE component. Students achieving a borderline result on the OSLER will be offered another OSLER. In order to pass the OSCE, students will be required to pass at least 10 out of 12 stations.

The result awarded for this unit is an ungraded pass (UP).

**Required Texts:** Edwards CRW et al, *Davidson’s Principles and Practice of Medicine*, ISBN 0443059446 [p/b], 0443060002
Medical Research Council, UK, *Aids to the Examination of the Peripheral Nervous System*, ISBN 0702011657
Talley N & O’Connor S, *Clinical Examination*, ISBN 0864331029

**Recommended Texts:** Wilson JD, Braunwald E, et al (eds), *Harrison’s Principles of Internal Medicine*, latest edn, ISBN 0070202923 (2-vol edn: bk 1), 0070202931 (bk 2); 0070202915 (1 vol edn)
Surgery

**Offered in Courses:** [M3B]

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CAM420 - Honours

Special Note: Students wishing to participate in one of the research programs will first need to consult the specific project supervisor. Inquiries about this unit should be directed to the unit coordinator, Dr R Lord.

Description: Semester 2 in Year 4 of the MBBS course is devoted to this unit whereby students may select from a wide variety of research programs offered by clinical and preclinical disciplines. Individual programs may be of either 9 or 18 weeks duration, and occupy 2.5 or 5 days per week. Students are required to select a combination of programs totaling 5 days per week for 18 weeks. Details of program offerings will vary from year to year and this information is available on line from the School of Medicine's website.

Requisites: PREREQ - Semester 1 of 4th Year Medicine

Staff: Dr R Lord (Unit Coordinator) and staff within, and associated with, the School of Medicine.

Offered in Courses: [ M3B ]

Unit Delivery Information:  

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CAM440 - Additional Study

Special Note: A student who has failed not more that 2 units amounting to not more than 50% of the normal academic load for a full year may, with the approval of the Associate Head, Course Administration & Student Affairs, be permitted to enrol in those units in Semester 2 of 4th Year. Inquiries about this unit should be directed to the unit coordinator, Mr S Lockwood.

Description: As an alternative to Year 4 advanced study (CAM400) or research (CAM420), some students may be required to undertake additional study. Students enrolled in Additional Study (CAM440) receive an ungraded pass result.

Staff: Mr S Lockwood (Unit Coordinator) and staff of the School of Medicine.

Unit Delivery Information:  

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CAM450 - Honours (Unit not offered in 2006)

Description:

CAM501 - Objective, Structured Clinical Examination (Unit not offered in 2006)

Description: At the conclusion of the 5th year of the MBBS a multidisciplinary examination must be passed as an prerequisite for entry to the final year of the MBBS. The Objective, Structured Clinical Examination (OSCE) is designed to assess competency across the four domains in the clinical years of the undergraduate course, particularly in areas which can be encapsulated in a very brief, targeted history taking, by performance of an examination technique, by advice about an aspect of management or by interpretation of the basic findings of an investigation.

Requisites: COREQ - 5th-year Medicine

Staff: Dr R Young, staff and Clinical Academics of the School of Medicine

Assessment: Objective, Structured Clinical Examination (OSCE)

Offered in Courses: [ M3B ] [ M4B ]

CAM506 - Clinical Supervision and Assessment in the Health Care Setting

Description: This unit will focus on two aspects of university learning and teaching of particular relevance to health professional education. The first is the use of assessment tools and procedures in the health sciences, particularly in clinical settings. The second is the preceptor's role in fostering learning in a clinical environment. There will be an emphasis on applying the principles and theories underlying learning and teaching, presented in Unit ELT501, to clinical settings.

Requisites: PREREQ - ELT501

Staff: Prof Judi Walker, Dr Denise Fassett, Ass Prof G Mac Carrick, Dr Heather Smigiel, Dr Maryanne Catchpole, Neil Trivett and guest lecturers as required

Teaching Pattern: 2 days of block teaching (2 x 7 hours)16 hours of structured individual and small group work (to be negotiated) and 10 hours of directed reading over 14 weeks

Assessment: Account of planning and implementing a series of mentoring sessions, analysis of interaction and outcomes. Assessment criteria: comprehensive account; thoughtful reflection on practice and evidence of understanding of clinical teaching and the role of the supervisor. (1500 words - 30%) Critical account of a piece of assessment in a case based or problem based setting. Assessment criteria: thoughtful reflection on practice and evidence of understanding of this teaching and assessment method, drawing on appropriate literature. (1500 words - 30%) Learning and Teaching self development plan situated within the research examining effective clinical teaching in a health profession context (2000 - 40%) Assessment criteria: Understanding and application of the literature of evaluation of teaching and clinical supervision.


Offered in Courses: [ ESS ]
CAM511/12 - Medicine Year 5 - Clinical Schools

Special Note: Students are required to enrol concurrently in CAM511 and CAM512 (LGH Clinical School), CAM513 and CAM514 (NWRH Clinical School) or CAM515 and CAM516 (RHH Clinical School).

Description: This unit is integrated with the programme in the following year of the course. There will be clinical attachments in a range of specialties to encompass the areas of Women and Children's Health, Psychiatry, General Practice, Medical and Surgical Specialties. Overall objectives are organised by the themes of Human Health & Disease (HHD), Communication & Collaboration (C&C), Community Health & Disease (CHD), Personal & Professional Development (PPD) and Integration (INT).

Weekly integrated teaching sessions will cover key common problems in the Australian Health Sector, will be case-based, and will require self-directed learning approaches. Therapeutics teaching will include the web-based resource of the National Prescribing Service educational programme and there will be an emphasis on the rational use of investigative procedures and treatments. Allocated mentors will support students in their self-directed learning and will provide additional feedback to that of clinical attachment supervisors.

On completion of either CAM511 (LGH students), CAM513 (NWRH students) or CAM515 (RHH students) students receive a XX (results shown in another unit) result. The final result for this unit is granted on completion of either CAM512 (LGH students), CAM514 (NWRH students) or CAM516 (RHH students).

Requisites: - Some requisites may differ unit to unit.
 CAM511: PREREQ - 4th-year Medicine COREQ - CAM512
 CAM512: PREREQ - 4th-year Medicine COREQ - CAM511

Staff: Coordinators: Assoc Prof JH Vial RHH, Dr K Rooney LGH and Assoc Prof Ken Armstrong RCS. Teaching by academic members of the clinical disciplines of the School of Medicine, consultants of the RHH, LGH and NWRH and affiliated hospitals, general practitioners.

Teaching Pattern: Case-based seminars including student presentation of topics relating to key common problems; ward based small group tutorials for development of clinical skills and other professional skills, and one clinical attachment to General Practitioners.

Assessment: Formative assessment

Portfolio of Learning: Students are expected to maintain a portfolio over the entire year. This includes
a) a log-book, in which they record information about procedures seen and/or performed during the hospital and community placements
b) Five reflective pieces that reflect the learning objectives of the themes Personal and Professional Development and Communication and Collaboration.

c) an assessment for each clinical rotation signed off by supervising consultant based on performance during the attachment including performance in written and clinical assessment tasks set by the discipline concerned during the attachment.
d) at least 3 satisfactory Objective Structured Long Examination Records (OSLERs). Students are required to submit 6 satisfactory OSLERs by the end of 6th year, with a minimum of 3 to be completed in 5th year. It is a requirement that 4 OSLERs be from different disciplines with at least one each year to be assessed by Clinical School staff.
e) Evidence of participation in CBL sessions

In addition, students will be required to prepare reports or cases as required by individual clinical schools.

The portfolio will be formatively assessed during the year. There will be a mid-year multiple choice question examination and OSCE assessments during the year: Two stations following teaching week 12 and two stations following week 24, organized by local clinical schools.

Summative Assessment End of year

Assessment of the portfolio contents as above

End of Year Summative Assessment

All three clinical schools share a single written (MCQ) and six station clinical (OSCE) assessments. The marks from the four OSCEs held during the year will be included to the overall OSCE mark. Students are required to pass the portfolio, the MCQ and the OSCE components of the assessment to pass overall. The result awarded for this unit is an ungraded pass (UP).

Required Texts: Listed in unit handbook and any additions will be provided in reading lists will be provided at the beginning of each rotation

Offered in Courses: [ M3B ] [ M4B ]

Unit Delivery Information:

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CAM513/14 - Medicine Year 5 - Clinical Schools

Special Note: Students are required to enrol concurrently in CAM511 and CAM512 (LGH Clinical School), CAM513 and CAM514 (NWRH Clinical School) or CAM515 and CAM516 (RHH Clinical School).

Description: This unit is integrated with the programme in the following year of the course. There will be clinical attachments in a range of specialties to encompass the areas of Women and Children's Health, Psychiatry, General Practice, Medical and Surgical Specialties. Overall objectives are organised by the themes of Human Health & Disease (HHD), Communication & Collaboration (C&C), Community Health & Disease (CHD), Personal & Professional Development (PPD) and Integration (INT).

Weekly integrated teaching sessions will cover key common problems in the Australian Health Sector, will be case-based, and will require self-directed learning approaches. Therapeutics teaching will include the web-based resource of the National Prescribing Service educational programme and there will be an emphasis on the rational use of investigative procedures and treatments. Allocated mentors will support students in their self-directed learning and will provide additional feedback to that of clinical attachment supervisors.
CAM515/16 - Medicine Year 5 - Clinical Schools

Special Note: Students are required to enrol concurrently in CAM511 and CAM512 (LGH Clinical School), CAM513 and CAM514 (NWRH Clinical School) or CAM515 and CAM516 (RHH Clinical School).

Description: This unit is integrated with the programme in the following year of the course. There will be clinical attachments in a range of specialties to encompass the areas of Women and Children's Health, Psychiatry, General Practice, Medical and Surgical Specialties. Overall objectives are organised by the themes of Human Health & Disease (HHD), Communication & Collaboration (C&C), Community Health & Disease (CHD), Personal & Professional Development (PPD) and Integration (INT).

Weekly integrated teaching sessions will cover key common problems in the Australian Health Sector, will be case-based, and will require self-directed learning approaches. Therapeutics teaching will include the web-based resource of the National Prescribing Service educational programme and there will be an emphasis on the rational use of investigative procedures and treatments. Allocated mentors will support students in their self-directed learning and will provide additional feedback to that of clinical attachment supervisors.

On completion of either CAM511 (LGH students), CAM513 (NWRH students) or CAM515 (RHH students) students receive a XX (results shown in another unit) result. The final result for this unit is granted on completion of either CAM512 (LGH students), CAM514 (NWRH students) or CAM516 (RHH students).

Requisites: - Some requisites may differ unit to unit.
CAM515/16: PREREQ - 4th-year Medicine COREQ - CAM516
Staff: Coordinators: Assoc Prof JH Vial RHH, Dr K Rooney LGH and Assoc Prof Ken Armstrong RCS. Teaching by academic members of the clinical disciplines of the School of Medicine, consultants of the RHH, LGH and NWRH and affiliated hospitals, general practitioners.

Teaching Pattern: Case-based seminars including student presentation of topics relating to key common problems; ward based small group tutorials for development of clinical skills and other professional skills, and one clinical attachment to General Practitioners.

Assessment: Formative assessment

Portfolio of Learning: Students are expected to maintain a portfolio over the entire year. This includes
a) a log-book, in which they record information about procedures seen and/or performed during the hospital and community placements
b) Five reflective pieces that reflect the learning objectives of the themes Personal and Professional Development and Communication and Collaboration.
c) an assessment for each clinical rotation signed off by supervising consultant based on performance during the attachment including performance in written and clinical assessment tasks set by the discipline concerned during the attachment.
d) at least 3 satisfactory Objective Structured Long Examination Records (OSLERs). Students are required to submit 6 satisfactory OSLERs by the end of 6th year, with a minimum of 3 to be completed in 5th year. It is a requirement that 4 OSLERs be from different disciplines with at least one each year to be assessed by Clinical School staff.
e) Evidence of participation in CBL sessions

In addition, students will be required to prepare reports or cases as required by individual clinical schools.

The portfolio will be formatively assessed during the year. There will be a mid-year multiple choice question examination and OSCE assessments during the year: Two stations following teaching week 12 and two stations following week 24, organized by local clinical schools.

Summative Assessment End of year
Assessment of the portfolio contents as above

End of Year Summative Assessment
All three clinical schools share a single written (MCQ) and six station clinical (OSCE) assessments. The marks from the four OSCEs held during the year will be included to the overall OSCE mark. Students are required to pass the portfolio, the MCQ and the OSCE components of the assessment to pass overall. The result awarded for this unit is an ungraded pass (UP).

Required Texts: Listed in unit handbook and any additions will be provided in reading lists.

Offered in Courses: [ M3B ] [ M4B ]

Unit Delivery Information:

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CAM611/12 - Medicine Year 6 - Clinical Schools

Special Note: Students are required to enrol concurrently in CAM611 and CAM612 (LGH Clinical School), CAM613 and CAM614 (NWRH Clinical School) or CAM615 and CAM616 (RHH Clinical School).

Description: This unit will be integrated with the programme in the fifth year of the course. Clinical attachments encompass the areas of Emergency Medicine, General Practice, and pre-intern placements in a variety of disciplines, including general medicine and surgery to help prepare students for the intern year after graduation. Overall objectives are organised by the themes of Human Health & Disease (HHD), Communication & Collaboration (C&C), Community Health & Disease (CHD), Personal & Professional Development (PPD) and Integration (INT).

On completion of either CAM611 (LGH students), CAM613 (NWRH students) or CAM615 (RHH students) students receive a XX (results shown in another unit) result. The final result for this unit is granted on completion of either CAM612 (LGH students), CAM614 (NWRH students) or CAM616 (RHH students).

Requisites: Some requisites may differ unit to unit.
CAM611: PREREQ - CAM511 and CAM512 or CAM513 and CAM514 or CAM515 and CAM516 COREQ - CAM612
CAM612: PREREQ - CAM511 and CAM512 or CAM513 and CAM514 or CAM515 and CAM516 COREQ - CAM611

Staff: Coordinators: Assoc Prof JH Vial RHH, Dr K Rooney LGH and Assoc Prof Ken Armstrong RCS. Teaching by academic members of the clinical disciplines of the School of Medicine, consultants of the RHH, LGH and NWRH and affiliated hospitals, general practitioners.

Teaching Pattern: Case-based class teaching; presentation of topics relating to key common problems; development of clinical skills; development of professional skills; small group teaching

Assessment: Formative Assessment
Internal assessment of clinical and communication skills will occur through
a) clinical attachment reports by supervisors,
b) mid-year review of the portfolio including logbook, progress in reflective diary, OSLERs and case histories,
c) feedback on case based learning participation Students falling below expectations will be offered remedial opportunities in the area(s) concerned.

Summative Assessment
Portfolio of Learning: Students are expected to maintain a portfolio over the entire year. This includes:

a) an assessment for each clinical rotation signed off by supervising consultant based on performance during the attachment including performance in written and clinical assessment tasks set by the discipline concerned during the attachment.

b) at least 3 satisfactory Objective Structured Long Examination Records (OSLERs). Students are required to submit 6 satisfactory OSLERs by the end of 6th year, with a minimum of 3 to be completed in 5th year. It is a requirement that 4 OSLERs be from different disciplines with at least one each year to be assessed by Clinical School staff.

c) Evidence of participation in CBL sessions

In addition, students will be required to prepare reports or cases as required by individual clinical schools.

The portfolio will be formatively assessed during the year. There will be a mid-year multiple choice question examination and OSCE assessments during the year: Two stations following teaching week 12 and two stations following week 24, organized by local clinical schools.

Summative Assessment End of year
Assessment of the portfolio contents as above

End of Year Summative Assessment
All three clinical schools share a single written (MCQ) and six station clinical (OSCE) assessments. The marks from the four OSCEs held during the year will be included to the overall OSCE mark. Students are required to pass the portfolio, the MCQ and the OSCE components of the assessment to pass overall. The result awarded for this unit is an ungraded pass (UP).

Required Texts: Listed in unit handbook and any additions will be provided in reading lists will be provided at the beginning of each rotation

Offered in Courses: [M3B] [M4B]

Unit Delivery Information:

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Units Coded C – Faculty of Health Science

graduation') decision will be made by a cross-school assessment committee. The result recorded for this unit is an ungraded pass (UP).

**Required Texts:** Listed in unit handbook and any additions will be provided in reading lists will be provided at the beginning of each rotation

**Recommended Texts:** reading lists to be provided at the beginning of each rotation

**Offered in Courses:** [ M3B ] [ M4B ]

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**CAM613/14 - Medicine Year 6 - Clinical Schools**

**Special Note:** Students are required to enrol concurrently in CAM611 and CAM612 (LGH Clinical School), CAM613 and CAM614 (NWRH Clinical School) or CAM615 and CAM616 (RHH Clinical School).

**Description:** This unit will be integrated with the programme in the fifth year of the course. Clinical attachments encompass the areas of Emergency Medicine, General Practice, and pre-intern placements in a variety of disciplines, including general medicine and surgery to help prepare students for the intern year after graduation. Overall objectives are organised by the themes of Human Health & Disease (HHD), Communication & Collaboration (C&C), Community Health & Disease (CHD), Personal & Professional Development (PPD) and Integration (INT).

On completion of either CAM611 (LGH students), CAM613 (NWRH students) or CAM615 (RHH students) students receive a XX (results shown in another unit) result. The final result for this unit is granted on completion of either CAM612 (LGH students), CAM614 (NWRH students) or CAM616 (RHH students).

**Requisites:** - Some requisites may differ unit to unit.

CAM613: PREREQ - CAM511 and CAM512 or CAM513 and CAM514 or CAM515 and CAM516

CAM614: PREREQ - CAM511 and CAM512 or CAM513 and CAM514 or CAM515 and CAM516

CAM614: PREREQ - CAM511 and CAM512 or CAM513 and CAM514 or CAM515 and CAM516

**Staff:** Coordinators: Assoc Prof JH Vial RHH, Dr K Rooney LGH and Assoc Prof Ken Armstrong RCS. Teaching by academic members of the clinical disciplines of the School of Medicine, consultants of the RHH, LGH and NWRH and affiliated hospitals, general practitioners.

**Teaching Pattern:** Case-based class teaching; presentation of topics relating to key common problems; development of clinical skills; development of professional skills; small group teaching

**Assessment:** **Formative Assessment**

Internal assessment of clinical and communication skills will occur through

a) clinical attachment reports by supervisors,

b) mid-year review of the portfolio including logbook, progress in reflective diary, OSLERs and case histories.

c) feedback on case based learning participation Students falling below expectations will be offered remedial opportunities in the area(s) concerned.

**Summative Assessment**

Portfolio of Learning: Students are expected to maintain a portfolio over the entire year. This includes:

a) an assessment for each clinical rotation signed off by the supervising consultant based on performance during the attachment including performance in any assessment tasks set by the discipline concerned during the attachment ;

b) a log-book, in which they record information about procedures observed and/or performed during the hospital and community placements;

c) documentation of competency in venepuncture, IV cannulation, and CPR;

d) one or more reflective pieces totalling a minimum of 3000 words that reflect the learning objectives of the theme of Personal and Professional Development and the communication learning objectives under the domain Communication and Collaboration;

e) 6 Objective Structured Long Examination Records (OSLERs) marked as satisfactory over 5th and 6th years. It is a requirement that 4 be from different disciplines with at least one each year to be assessed by Clinical School staff ;

f) 4 case histories of 3000 words each, focusing on maternal and child health, liaison psychiatry, complex therapeutics, and a longitudinal case with an emphasis on chronic illness issues ;

g) Evidence of active involvement in weekly integrated case-based learning;

h) Elective assessment form and report.

All attachment assessments, including post-remediation re-assessments, and the completed portfolios will be reviewed at the end of the academic year, and the student will be interviewed about the contents of their portfolio. A final pass/fail (or recommendation for graduation) decision will be made by a cross-school assessment committee. The result recorded for this unit is an ungraded pass (UP).

**Required Texts:** Listed in unit handbook and any additions will be provided in reading lists will be provided at the beginning of each rotation

**Offered in Courses:** [ M3B ] [ M4B ]

### Unit Delivery Information:

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**CAM615/16 - Medicine Year 6 - Clinical Schools**

**Special Note:** Students are required to enrol concurrently in CAM611 and CAM612 (LGH Clinical School), CAM613 and CAM614 (NWRH Clinical School) or CAM615 and CAM616 (RHH Clinical School).
Requisites:
Relevance to human health and disease is highlighted. Metabolism, by hormonal and other means; (d) Nutrition -- roles of macro- and micro-nutrients in health and disease, dietary guidelines, food composition; (e) Basic human genetics; (f) Human molecular biology in health and disease; (g) Metabolic and genetic basis of disease states.

Units Coded C – Faculty of Health Science

Description: This unit will be integrated with the programme in the fifth year of the course. Clinical attachments encompass the areas of Emergency Medicine, General Practice, and pre-intern placements in a variety of disciplines, including general medicine and surgery to help prepare students for the intern year after graduation. Overall objectives are organised by the themes of Human Health & Disease (HHD), Communication & Collaboration (C&C), Community Health & Disease (CHD), Professional & Professional Development (PPD) and Integration (INT).

On completion of either CAM611 (LGH students), CAM613 (NWRH students) or CAM615 (RHH students) students receive a XX (results shown in another unit) result. The final result for this unit is granted on completion of either CAM612 (LGH students), CAM614 (NWRH students) or CAM616 (RHH students).

Requisites: - Some requisites may differ unit to unit. CAM615: PREREQ - CAM511 and CAM512 or CAM513 and CAM514 or CAM515 and CAM516 COREQ - CAM616 CAM616: PREREQ - CAM511 and CAM512 or CAM513 and CAM514 or CAM515 and CAM516 COREQ - CAM615

Staff: Coordinators: Assoc Prof JH Vial RHH, Dr K Rooney LGH and Assoc Prof Ken Armstrong RCS. Teaching by academic members of the clinical disciplines of the School of Medicine, consultants of the RHH, LGH and NWRH and affiliated hospitals, general practitioners.

Teaching Pattern: Case-based class teaching; presentation of topics relating to key common problems; development of clinical skills; development of professional skills; small group teaching

Assessment: Formative Assessment
Internal assessment of clinical and communication skills will occur through:
- a) clinical attachment reports by supervisors,
- b) mid-year review of the portfolio including logbook, progress in reflective diary, OSLERs and case histories.
- c) feedback on case based learning participation Students falling below expectations will be offered remedial opportunities in the area(s) concerned.

Summative Assessment
Portfolio of Learning: Students are expected to maintain a portfolio over the entire year. This includes:
- a) an assessment for each clinical rotation signed off by the supervising consultant based on performance during the attachment including performance in any assessment tasks set by the discipline concerned during the attachment;
- b) a log-book, in which they record information about procedures observed and/or performed during the hospital and community placements;
- c) documentation of competency in venepuncture, IV cannulation, and CPR;
- d) one or more reflective pieces totalling a minimum of 3000 words that reflect the learning objectives of the theme of Personal and Professional Development and the communication learning objectives under the domain Communication and Collaboration;
- e) 6 Objective Structured Long Examination Records (OSLERs) marked as satisfactory over 5th and 6th years. It is a requirement that 4 be from different disciplines with at least one each year to be assessed by Clinical School staff;
- f) 4 case histories of 3000 words each, focusing on maternal and child health, liaison psychiatry, complex therapeutics, and a longitudinal case with an emphasis on chronic illness issues;
- g) Evidence of active involvement in weekly integrated case-based learning;
- h) Elective assessment form and report.
All attachment assessments, including post-remediation re-assessments, and the completed portfolios will be reviewed at the end of the academic year, and the student will be interviewed about the contents of their portfolio. A final pass/fail (or ‘recommendation for graduation’) decision will be made by a cross-school assessment committee. The result recorded for this unit is an ungraded pass (UP).

Required Texts: Listed in unit handbook and any additions will be provided in reading lists to be provided at the beginning of each rotation

Recommended Texts: reading lists to be provided at the beginning of each rotation

Offered in Courses: [ M3B ] [ M4B ]

Unit Delivery Information:

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CBA201 - Biochemistry 2A (Medicine)

Special Note: On completion of CBA201 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CBA202. Students are required to enrol concurrently in CBA201 and CBA202.

Description: Provides medical students an understanding of: (a) structure and function of important biological macromolecules, such as nucleic acids and proteins; (b) structure, function and metabolism of amino acids, carbohydrates and lipids; (c) the integration and control of metabolism, by hormonal and other means; (d) nutrition -- roles of macro- and micro-nutrients in health and disease, dietary guidelines, food composition; (e) basic human genetics; (f) human molecular biology in health and disease; (g) metabolic and genetic basis of disease states. Relevance to human health and disease is highlighted.

Requisites: PREREQ - First year medicine COREQ - CJA212 COREQ - CHG210 COREQ - CHG202

Staff: Dr DR Woodward (Coordinator), Dr SM Richards, Assoc Prof AK West, Dr AF Holloway

Teaching Pattern: 59 hrs lectures; 13 hrs tutorials (sem 1 and 2 combined)
Assessment: 2-hr written paper at end of sem 1 (45%); 2-hr written paper at end of sem 2 (35%); assessments during sem (20%)


CBA201 - Biochemistry 2B (Medicine)

Special Note: On completion of CBA201 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CBA202. Students are required to enrol concurrently in CBA201 and CBA202.

Description: Provides medical students an understanding of: (a) structure and function of important biological macromolecules, such as nucleic acids and proteins; (b) structure, function and metabolism of amino acids, carbohydrates and lipids; (c) the integration and control of metabolism, by hormonal and other means; (d) nutrition -- roles of macro- and micro-nutrients in health and disease, dietary guidelines, food composition; (e) basic human genetics; (f) human molecular biology in health and disease; (g) metabolic and genetic basis of disease states. Relevance to human health and disease is highlighted.

Requisites: PREREQ - First year medicine COREQ - CJA212 COREQ - CHG210 COREQ - CHG201

Staff: Dr DR Woodward (Coordinator), Dr SM Richards, Assoc Prof AK West, Dr AF Holloway

Teaching Pattern: 59 hrs lectures; 13 hrs tutorials (sem 1 and 2 combined)

Assessment: 2-hr written paper at end of sem 1 (45%); 2-hr written paper at end of sem 2 (35%); assessments during sem (20%)


Offered in Courses: [ M3J ] [ M3B ] [ M4B ]

Unit Delivery Information:

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CBA221 - Biochemistry A (Pharmacy)

Special Note: On completion of CBA221 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CBA222. Students are required to enrol concurrently in CBA221 and CBA222.

Description: Gives pharmacy students an understanding of the following core areas of biochemistry and molecular biology: (a) structure and function of important biological macromolecules, such as nucleic acids and proteins; (b) structure, function and metabolism of amino acids, carbohydrates and lipids; (c) the integration and control of metabolism, by hormonal and other means; (d) nutrition -- roles of macro- and micro-nutrients in health and disease, food composition, dietary guidelines; (e) basic human genetics; (f) human molecular biology in health and disease; (g) metabolic and genetic basis of disease states. Relevance to human health and disease is highlighted.

Requisites: PREREQ - KRA160 COREQ - CHG101 COREQ - CJA222

Staff: Dr AF Holloway, Dr SM Richards, Assoc Prof AK West, Dr DR Woodward (Coordinator)

Teaching Pattern: 2-3x1-hr lectures weekly; 1-hr tutorial fortnightly

Assessment: 2-hr written paper at end of sem 1 (45%), 2-hr written paper at end of sem 2 (35%), assessments during sem (20%)


Offered in Courses: [ M3F ]

Unit Delivery Information:

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CBA222 - Biochemistry B (Pharmacy)

Special Note: On completion of CBA221 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CBA222. Students are required to enrol concurrently in CBA221 and CBA222.

Description: Gives pharmacy students an understanding of the following core areas of biochemistry and molecular biology: (a) structure and function of important biological macromolecules, such as nucleic acids and proteins; (b) structure, function and metabolism of amino acids, carbohydrates and lipids; (c) the integration and control of metabolism, by hormonal and other means; (d) nutrition -- roles of macro- and micro-nutrients in health and disease, food composition, dietary guidelines; (e) basic human genetics; (f) human molecular biology in health and disease; (g) metabolic and genetic basis of disease states. Relevance to human health and disease is highlighted.

Requisites: PREREQ - KRA160 COREQ - CHG101 PREREQ - CBA221

Staff: Dr AF Holloway, Dr SM Richards, Assoc Prof AK West, Dr DR Woodward (Coordinator)
Teaching Pattern: 2--3x1-hr lectures weekly; 1-hr tutorial fortnightly
Assessment: 2-hr written paper at end of sem 1 (45%), 2-hr written paper at end of sem 2 (35%), assessments during sem (20%)

Required Texts:
or Smith C, Marks AD & Lieberman M, Marks' Basic Medical Biochemistry, 2nd edn, Lippincott Williams & Wilkins, Philadelphia, 2005, ISBN 0781721458


Offered in Courses: [ M3F ]

Unit Delivery Information:

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CBA235 - Biochemistry (Agriculture)

Special Note: restricted to Agricultural Science students

Description: Gives agricultural science students an introduction to: (a) structure and function of important biological macromolecules, such as nucleic acids and proteins; (b) structure, function and metabolism of amino acids, carbohydrates and lipids; (c) the integration and control of metabolism, by hormonal and other means; (d) molecular biology; (e) nutrition.

Requisites: PREREQ - KRA120 and KPA164 and KZA161; students who do not have these prereqs should consult unit coordinator MEXCL - may not be included in BAgSc with CBA230

Staff: Dr SM Richards, Dr DR Woodward (Coordinator)

Teaching Pattern: 3x1-hr lectures weekly; 1-hr tutorial fortnightly

Assessment: 2-hr written paper at end of sem 1 (70%); assessments during sem (30%)


Offered in Courses: [ S3A ]

Unit Delivery Information:

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CBA260 - Biochemistry: Metabolism & Nutrition

Description: Provides students with a broad introduction to metabolic and nutritional aspects of biochemistry. Major topics include structure, function and metabolism of amino acids, carbohydrates and lipids; the integration and control of metabolism, by hormonal and other means; roles of selected nutrients in health and disease.

BSc students whose career aspirations are in the biomedical area are encouraged to include both KZA150 and CHG100, as well as a first-year chemistry unit. Students whose career aspirations are in the life sciences area are strongly encouraged to include both KZA151 and KPA150, as well as a first-year chemistry unit. (Please note that BSc rules do not allow students to include both KZA150 and KPA150)

BSc students who do not have these prerequisites MAY be accepted after consultation with the unit coordinator; for example, a student who has not done a first-year chemistry unit will be considered if they have good marks in TCE Chemistry 12C, and have done one of the prerequisite first-year biology units.

Requisites: PREREQ - BSc - KRA110 Chemistry IA and ONE of ( KZA150 Zoology IG, KPA150 Botany 1G) MEXCL - this unit may NOT be included in BSc with CBA250 or CBA211 PREREQ - BBiotech - KRA110 AND KPA150 PREREQ - BMedRes - KRA110 AND CHG100

Staff: Dr AF Holloway, Dr SM Richards, Dr DR Woodward (Coordinator)

Teaching Pattern: 2--3x1hr lectures, 3hrs lab weekly; 1-hr tutorial fortnightly

Assessment: 2-hr written end-of-sem paper (70%), practicals (15%), tests during sem (15%)

or


Offered in Courses: [ S3G ] [ S3V ] [ S3I ] [ M3M ] [ OCS ]

Unit Delivery Information:

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CBA265 - Molecular Biology in Health & Disease
Description: Provides students with a broad introduction to molecular biology. The focus is primarily on humans and other mammals, but most of the matters discussed apply to a much broader range of species. Major topics include protein structure and function; DNA structure, replication and transcription; protein synthesis; molecular biology of cancer; genetics of human disease; DNA technology and its applications.

BSc students whose career aspirations are in the biomedical area are encouraged to include both KZA150 and CHG100 as well as a first-year chemistry unit. BSc students whose career aspirations are in the life sciences area are strongly encouraged to include both KZA151 and KPA150, as well as a first-year chemistry unit. (Please note that BSc rules do not allow students to include both KZA150 and KPA150)

BSc students who do not have these prerequisites may be accepted after consultation with the unit coordinator; for example, a student who has not done a first-year chemistry unit will be considered if they have good marks in TCE Chemistry 12C, and have done one of the prerequisite first-year biology units.

Requisites: PREREQ - BSc - KRA110 Chemistry IA and ONE of (KZA150 Zoology IG, KPA150 Botany IG) MEXCL - This unit may not be included in BSc with CBA250 or CBA211 PREREQ - BBiotech - KRA110 AND KPA150 PREREQ - BMedRes - KRA110 AND CHG100

Staff: Dr AF Holloway, Dr SM Richards, Assoc Prof AK West, Dr DR Woodward (Coordinator)

Teaching Pattern: 2x1-hr lectures, 3 hrs lab weekly; 1-hr tutorial fortnightly

Assessment: 2-hr written end-of-semester paper (70%), practicals (15%), tests during sem (15%)

Required Texts:

or


Recommended Texts:

Offered in Courses: [ S3G ] [ S3V ] [ S3I ] [ M3M ] [ OCS ]

Unit Delivery Information:

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CBA327 - Molecular Biochemistry: Techniques and Theory (Unit not offered in 2006)

Special Note: *NOTE: This unit has been replaced in 2006 by CBA300 and CBA333*

Description: Provides students with (i) an understanding and application of contemporary techniques in protein biochemistry and molecular biology and (ii) an understanding of contemporary developments in the areas of biochemistry relating to hormones, signal transduction, gene regulation and molecular biology, particularly related to transgenic animals, cloning and the Human Genome Project. Lectures cover key techniques in modern biochemistry and molecular biology including proteomics and genomics while the second semester focuses on topics in the molecular biosciences. Where appropriate, guest lecturers will provide specialist lectures in areas such as molecular epidemiology and molecular neurosciences. Practicals emphasise 'hands-on' experience with contemporary laboratory techniques and include a bioinformatics module. The unit features 10-week research projects in the second semester based on research groups from the School of Medicine.

Requisites: PREREQ - CBA260 and CBA265

Staff: Prof MG Clark, Dr AF Holloway, Dr SM Richards, Dr AK West

Teaching Pattern: 3 lectures, 1-hr tutorial, 11 hrs practicals weekly

Assessment: 2-hr written exam in June, 3-hr written exam in Nov, with 30% of final mark from practical assignments and projects


Offered in Courses: [ S3G ]

CBA330 - Biochemistry for Biotechnology

Description: Provides students with an understanding and application of contemporary techniques in protein biochemistry and molecular biology relevant to Biotechnology. Lectures cover key techniques in modern biochemistry and molecular biology including proteomics and genomics. Practicals emphasise 'hands-on' experience with contemporary biochemical and molecular techniques and includes a bioinformatics module.

Requisites: PREREQ - CBA260 and CBA265 MEXCL - CBA327

Staff: Prof MG Clark, Dr AF Holloway, Dr AK West

Teaching Pattern: 3 lectures, 1-hr tutorial, 11 hrs practicals weekly

Assessment: 2-hr written exam in June (70%), practicals (30%)


Other appropriate material will be indicated during the year.

Offered in Courses: [ S3V ] [ S3G ] [ S3I ] [ M3M ] [ OCS ]

Unit Delivery Information:

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CBA335 - Advanced Biochemistry for Biotechnology
Description: Provides students with in-depth coverage of selected topics relevant to biotechnology, with a major emphasis on research laboratory experience. This unit is an excellent preparation for students wishing to undertake a biomedically-oriented Honours degree. The course provides students with an understanding of contemporary developments in the areas of biochemistry relating to hormones, signal transduction, gene regulation and molecular biology, particularly related to transgenic animals, cloning and the Human Genome Project. Where appropriate, guest lecturers will provide specialist lectures in areas such as molecular epidemiology and molecular neuroscience. The unit features 10-week research projects in the second semester based on research groups from the School of Medicine.

Requisites: PREREQ - CBA260 and CBA265 and CBA330 MEXCL - CBA327

Staff: Dr AF Holloway, Dr SM Richards, Dr AK West

Teaching Pattern: 3 lectures, 1-hr tutorial, 11 hrs practicals weekly

Assessment:


Other appropriate material will be indicated during the year.

Offered in Courses:  [ S3V ] [ S3G ] [ S3I ] [ M3M ] [ OCS ]

Unit Delivery Information:

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**CBA420 - Biochemistry 4 (BSc Honours) FTA**

**Special Note:** For Science students only. On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CBA421 for full time student and CBA425 for part time students. Full time student enrol in CBA420 and CBA421. Part time students enrol in CBA442, CBA443, CBA444 and CBA445.

**Description:** Aims: (a) to provide students with the opportunity to plan, execute, interpret and analyse purposeful experiments, appropriate to their research project, and to communicate their results; and to investigate and present on two areas, unrelated to their own research topic, but representing important contemporary biochemical research in order to demonstrate their skills in providing a condensed account of these areas of research and in communicating their essential features in written and oral form; and (b) to provide a year's training in research, in order to give successful students a competitive edge in seeking employment in biochemical research laboratories. The unit tests abilities which were largely ignored in the earlier years. Students who excel in this Honours year are well organised, plan carefully, are intensely motivated, are innovative thinkers, and express their ideas and findings clearly.

**Requisites:** COREQ - CBA421

**Staff:** Prof MG Clark, Dr AK West, Dr DR Woodward, Dr AF Holloway, Dr SM Richards (Coordinator)

**Assessment:** the year's performance is assessed from the research topic (thesis, 60%; project seminar, 10%), and 2 assignments (10% for the essay and 10% for the reading topic seminar presentation), supervisor's assessment (10%). There are no written exams or lectures, but students are expected to attend Discipline of Biochemistry seminars and those of their own research group

Unit Delivery Information:

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**CBA421 - Biochemistry 4 (BSc Honours) FTB**

**Special Note:** For Science students only. On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CBA421 for full time student and CBA425 for part time students. Full time student enrol in CBA420 and CBA421. Part time students enrol in CBA442, CBA443, CBA444 and CBA445.

**Description:** Aims: (a) to provide students with the opportunity to plan, execute, interpret and analyse purposeful experiments, appropriate to their research project, and to communicate their results; and to investigate and present on two areas, unrelated to their own research topic, but representing important contemporary biochemical research in order to demonstrate their skills in providing a condensed account of these areas of research and in communicating their essential features in written and oral form; and (b) to provide a year's training in research, in order to give successful students a competitive edge in seeking employment in biochemical research laboratories. The unit tests abilities which were largely ignored in the earlier years. Students who excel in this Honours year are well organised, plan carefully, are intensely motivated, are innovative thinkers, and express their ideas and findings clearly.

**Requisites:** COREQ - CBA420

**Staff:** Prof MG Clark, Dr AK West, Dr DR Woodward, Dr AF Holloway, Dr SM Richards (Coordinator)

**Assessment:** the year's performance is assessed from the research topic (thesis, 60%; project seminar, 10%), and 2 assignments (10% for the essay and 10% for the reading topic seminar presentation), supervisor's assessment (10%). There are no written exams or lectures, but students are expected to attend Discipline of Biochemistry seminars and those of their own research group

Unit Delivery Information:

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**CBA422 - Biochemistry 4 (BSc Honours) PTA**

**Special Note:** For Science students only. On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CBA421 for full time student and CBA425 for part time students. Full time student enrol in CBA420 and CBA421. Part time students enrol in CBA442, CBA443, CBA444 and CBA445.

**Description:** Aims: (a) to provide students with the opportunity to plan, execute, interpret and analyse purposeful experiments, appropriate to their research project, and to communicate their results; and to investigate and present on two areas, unrelated to their own research topic,
but representing important contemporary biochemical research in order to demonstrate their skills in providing a condensed account of these areas of research and in communicating their essential features in written and oral form; and (b) to provide a year's training in research, in order to give successful students a competitive edge in seeking employment in biochemical research laboratories. The unit tests abilities which were largely ignored in the earlier years. Students who excel in this Honours year are well organised, plan carefully, are intensely motivated, are innovative thinkers, and express their ideas and findings clearly.

**Requisites:** COREQ - CBA423

**Staff:** Prof MG Clark, Dr AK West, Dr DR Woodward, Dr AF Holloway, Dr SM Richards (Coordinator)

**Assessment:** the year's performance is assessed from the research topic (thesis, 60%; project seminar, 10%), and 2 assignments (10% for the essay and 10% for the reading topic seminar presentation), supervisor’s assessment (10%). There are no written exams or lectures, but students are expected to attend Discipline of Biochemistry seminars and those of their own research group

**Unit Information:**

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**CBA423 - Biochemistry 4 (BSc Honours) PTB**

**Special Note:** For Science students only. On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CBA421 for full time student and CBA425 for part time students. Full time students enrol in CBA420 and CBA421. Part time students enrol in CBA422, CBA423, CBA424 and CBA425.

**Description:** Aims: (a) to provide students with the opportunity to plan, execute, interpret and analyse purposeful experiments, appropriate to their research project, and to communicate their results; and to investigate and present on two areas, unrelated to their own research topic, but representing important contemporary biochemical research in order to demonstrate their skills in providing a condensed account of these areas of research and in communicating their essential features in written and oral form; and (b) to provide a year's training in research, in order to give successful students a competitive edge in seeking employment in biochemical research laboratories. The unit tests abilities which were largely ignored in the earlier years. Students who excel in this Honours year are well organised, plan carefully, are intensely motivated, are innovative thinkers, and express their ideas and findings clearly.

**Requisites:** COREQ - CBA422

**Staff:** Prof MG Clark, Dr AK West, Dr DR Woodward, Dr AF Holloway, Dr SM Richards (Coordinator)

**Assessment:** the year's performance is assessed from the research topic (thesis, 60%; project seminar, 10%), and 2 assignments (10% for the essay and 10% for the reading topic seminar presentation), supervisor’s assessment (10%). There are no written exams or lectures, but students are expected to attend Discipline of Biochemistry seminars and those of their own research group

**Unit Information:**

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**CBA424 - Biochemistry 4 (BSc Honours) PTC**

**Special Note:** For Science students only. On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CBA421 for full time student and CBA425 for part time students. Full time students enrol in CBA420 and CBA421. Part time students enrol in CBA422, CBA423, CBA424 and CBA425.

**Description:** Aims: (a) to provide students with the opportunity to plan, execute, interpret and analyse purposeful experiments, appropriate to their research project, and to communicate their results; and to investigate and present on two areas, unrelated to their own research topic, but representing important contemporary biochemical research in order to demonstrate their skills in providing a condensed account of these areas of research and in communicating their essential features in written and oral form; and (b) to provide a year's training in research, in order to give successful students a competitive edge in seeking employment in biochemical research laboratories. The unit tests abilities which were largely ignored in the earlier years. Students who excel in this Honours year are well organised, plan carefully, are intensely motivated, are innovative thinkers, and express their ideas and findings clearly.

**Requisites:** COREQ - CBA424

**Staff:** Prof MG Clark, Dr AK West, Dr DR Woodward, Dr AF Holloway, Dr SM Richards (Coordinator)

**Assessment:** the year's performance is assessed from the research topic (thesis, 60%; project seminar, 10%), and 2 assignments (10% for the essay and 10% for the reading topic seminar presentation), supervisor’s assessment (10%). There are no written exams or lectures, but students are expected to attend Discipline of Biochemistry seminars and those of their own research group

**Unit Information:**

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**CBA425 - Biochemistry 4 (BSc Honours) PTD**

**Special Note:** For Science students only. On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CBA421 for full time student and CBA425 for part time students. Full time students enrol in CBA420 and CBA421. Part time students enrol in CBA422, CBA423, CBA424 and CBA425.

**Description:** Aims: (a) to provide students with the opportunity to plan, execute, interpret and analyse purposeful experiments, appropriate to their research project, and to communicate their results; and to investigate and present on two areas, unrelated to their own research topic, but representing important contemporary biochemical research in order to demonstrate their skills in providing a condensed account of these areas of research and in communicating their essential features in written and oral form; and (b) to provide a year's training in research, in order to give successful students a competitive edge in seeking employment in biochemical research laboratories. The unit tests abilities which were largely ignored in the earlier years. Students who excel in this Honours year are well organised, plan carefully, are intensely motivated, are innovative thinkers, and express their ideas and findings clearly.

**Requisites:** COREQ - CBA424

University of Tasmania, Unit Guide 2006  www.utas.edu.au/units/  465
On completion of CHG105 students receive a XX (results shown in another unit) result. The final result for this unit is granted on completion of CHG106.

### CEA200 - Population Health

**Special Note:** Available from 2006

**Description:** This unit will take the student from molecular and laboratory studies to health and disease in the community, and will provide a comprehensive introduction to epidemiology (the study of the determinants and distribution of health related states). It addresses specific aspects relating to the collection and interpretation of epidemiological data, issues of major public health importance both within Australia and overseas, and provides students with the essential skills for logical, scientific assessment of the health and medical literature. Topics will include measurement of frequency and effect, types of studies used in epidemiology, error in epidemiological studies, and critical appraisal and causality.

**Requisites:** PREREQ - KMA153

**Staff:** Staff of Menzies Centre

**Teaching Pattern:** Lectures, seminars, tutorials

**Assessment:** In course assessment 50%, written examination 50%

**Required Texts:** Rothman KJ (2002) Epidemiology - an introduction. OUP

**Offered in Courses:** [M3M]

### CHG103 - Human Biology 2

**Description:** Builds a foundation for subsequent studies in biomedical and life sciences, in areas such as physiology, biochemistry, microbiology, immunology and zoology. It is studied jointly with students in pharmacy and medicine. Studies cover: (a) the basic facts and concepts relating to the human body’s structural and functional organisation at different levels (cells, tissues, organs, systems), and the constituent regions, parts and organs of all the several body systems and their functional interactions; (b) the range of normal variation in human anatomy and physiology, including those aspects showing important developmental and functionally related changes and the variety of relationships between structure and function; and (c) anatomical and physiological terminology which enables students to discuss, orally or in writing, facts, concepts, problems and biomedical issues relating to the structural and functional organisation of the body.

**Staff:** Assoc Prof M Maskrey, Dr L Weller; (Coordinators), staff of Anatomy & Physiology

**Teaching Pattern:** up to 7 hrs contact time per student (lectures, tutorials and practical sessions)

**Assessment:** written exams (60%), practicals (20%) and quizzes (20%)

**Required Texts:** Tortora GJ and Grabowski SR, *Principles of Anatomy & Physiology*, ISBN 0471224723

**Practical manual:** *Experiments/Explorations in Human Biology*, Univ Tas, 2005

**Offered in Courses:** [S3G] [S3V]

### CHG105 - Human Biology 1 (Science)

**Special Note:** Students enrol concurrently in CHG105 and CHG106. Human Biology 1 and 2 are a prerequisite for CHG206

**Description:** Builds a foundation for subsequent studies in biomedical and life sciences, in areas such as physiology, biochemistry, microbiology, immunology and zoology. It is studied jointly with students in pharmacy and medicine. Studies cover: (a) the basic facts and concepts relating to the human body’s structural and functional organisation at different levels (cells, tissues, organs, systems), and the constituent regions, parts and organs of all the several body systems and their functional interactions; (b) the range of normal variation in human anatomy and physiology, including those aspects showing important developmental and functionally related changes and the variety of relationships between structure and function; and (c) anatomical and physiological terminology which enables students to discuss, orally or in writing, facts, concepts, problems and biomedical issues relating to the structural and functional organisation of the body.

On completion of CHG105 students receive a XX (results shown in another unit) result. The final result for this unit is granted on completion of CHG106.

**Requisites:** PREREQ - CH856 and (PH866 or MT841) COREQ - CHG106

**Staff:** Assoc Prof M Maskrey, Dr L Weller; (Coordinators), staff of Anatomy & Physiology

**Teaching Pattern:** up to 7 hrs contact time per student (lectures, tutorials and practical sessions)

**Assessment:** Sem 1 exam (30%), end-of-year exam (30%), practicals (20%) and quizzes (20%)

**Required Texts:** Tortora GJ and Grabowski SR, *Principles of Anatomy & Physiology*, ISBN 0471224723

**Practical manual:** *Experiments/Explorations in Human Biology*, Univ Tas, 2005

Essential equipment includes a clean, white lab coat.

**Offered in Courses:** [S3G] [S3I]
CHG105 students receive a XX (results shown in another unit) result. The final result for this unit is granted on completion of CHG106.

**Requisites:**
- PREREQ - CHG105
- COREQ - CHG106

**Staff:**
- Assoc Prof M Maskrey, Dr I Weller (Coordinators), staff of Anatomy & Physiology

**Teaching Pattern:**
- Up to 7 hrs contact time per student (lectures, tutorials and practical sessions)

**Assessment:**
- Sem 1 exam (50%), end-of-year exam (30%), practicals (20%) and quizzes (20%)

**Required Texts:**
- Tortora GJ and Grabowski SR, Principles of Anatomy & Physiology, ISBN 0471224723
- Practical manual: Experiments/Explorations in Human Biology, Univ Tas, 2005

**Special Note:**
- Essential equipment includes a clean, white lab coat.

**Offered in Courses:**
- [S3G] [S3I]

**CHG110 - Integrated Structure and Function (Unit not offered in 2006)**

**Description:**
- Provides an integrated study of the structure and function of the human body, with an emphasis on medical relevance. The unit establishes the background for Structure and Function -- Clinical Correlations (2nd Year), which involves a more detailed study of structure and function with a greater clinical emphasis. A component of this unit (human biology) is studied jointly with science and pharmacy students. Learning opportunities comprise a lecture-based framework supplemented by practical work, small group workshops, tutorials and self-directed activities. The practical component comprises an introduction to surface anatomy and medical imaging, human dissection, observation and examination of tissue structure from sub-microscopic to macroscopic levels, and laboratory experiments designed for exploring general and fundamental principles of medical science and for introducing methods of collecting and analysing biomedical scientific data. The unit promotes an integrated understanding of structure and function at all levels (of cells, tissues, organs and systems) using a systemic approach complemented by regional study of the limbs. The unit also promotes the development of relevant observational, cognitive and communication skills. Students explore medically relevant aspects of all systems of the body (integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, respiratory, immune, digestive, urinary and reproductive) along with aspects of their development, and consider some functions that range across several systems. Regional study of the body's structure is continued in 2nd Year (thorax and abdomen) and completed in 3rd Year (head and neck), in association with neuroscience. Themes stressed in Integrated Structure and Function include (1) the interrelation of structure and function; (2) levels of organisation; (3) interactions of different systems; (4) normal ranges of variation; and (5) the structural and functional implications of injury and disease in humans.

**Requisites:**
- PREREQ - admission to Medicine

**Staff:**
- Dr WL Weller (Coordinator), staff of Anatomy & Physiology

**Teaching Pattern:**
- Up to 14 hrs contact time weekly (lectures, tutorials, small group workshops, practical classes, project work)

**Assessment:**
- Mid-sem tests (9%), sem 1 exams (26%), sem 2 exams (45%), project (10%), practical component (10%)

**Required Texts:**
- A Medical Dictionary an Atlas of Anatomy:
- or Gosling JA et al, Human Anatomy Color Atlas and Text, ISBN 0723432961 (int'l edn) or 0723431957
- or Anderson JE, Grant's Atlas of Anatomy, ISBN 0683302647
- or Kierszenbaum AL, Histology and Cell Biology, ISBN 03253016391 an Atlas of Histology:
- or Young B & Heath JW, Wheat's Functional Histology, ISBN 0443056188
- Moore KL & Dalley AF, Clinically Oriented Anatomy, ISBN 0683061410
- Tortora GJ and Grabowski SR, Principles of Anatomy & Physiology, ISBN 0471224723
- Sadler TW, Langman's Medical Embryology, ISBN 0683306502

**Practical manual:** Experiments/Explorations in Human Biology, Univ Tas, 2005
Essential Equipment includes: Long white coats exclusively for use in the dissecting laboratory. One pair of anti-splash safety goggles. The following instruments: one pair of non-toothed dissecting forceps; one scalpel handle and blades; one pair of curved, blunt-ended scissors. (Seek advice before obtaining these.) Students must supply their own surgical gloves, which they are required to wear during practical sessions in gross anatomy.

**Recommended Texts:** Lumley JSP, *Surface Anatomy, the anatomical Basis of Clinical Examination*, ISBN 0443070458

**Offered in Courses:** [M3J] [M3B] [M4B]

### CHG111 - Human Biology (Pharmacy)

**Special Note:** Students are required to enrol concurrently in CHG111 and CHG112

**Description:** Builds a foundation for subsequent studies in pharmacy. It is studied jointly with students in science and medicine. Studies cover: (a) the basic facts and concepts relating to the human body's structural and functional organisation at different levels (cells, tissues, organs, systems), and the constituent regions, parts and organs of all the several body systems and their functional interactions; (b) the range of normal variation in human anatomy and physiology, including those aspects showing important developmental and functionally related changes and the variety of relationships between structure and function; and (c) anatomical and physiological terminology which enables students to discuss, orally or in writing, facts, concepts, problems and biomedical issues relating to the structural and functional organisation of the body.

On completion of CHG111 students receive a XX (results shown in another unit) result. The final result for this unit is granted on completion of CHG112.

**Requisites:** PREREQ - CH856 and (PH866 or MT841) COREQ - CHG112

**Staff:** Assoc Prof M Maskrey, Dr L Weller (Coordinators), staff of Anatomy & Physiology

**Teaching Pattern:** up to 7 hrs contact time per student (lectures, tutorials and practical sessions)

**Assessment:** Sem 1 exam (30%), end-of-year exam (30%), practicals (20%) and quizzes (20%)

**Required Texts:** Tortora GJ and Grabowski SR, *Principles of Anatomy & Physiology*, ISBN 0471224723

**Practical manual:** *Experiments/Explorations in Human Biology*, Univ Tas, 2005

Essential equipment includes a clean, white lab coat.

**Offered in Courses:** [M3F]

**Unit Delivery Information:**

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### CHG112 - Human Biology (Pharmacy)

**Special Note:** Students are required to enrol concurrently in CHG111 and CHG112

**Description:** Builds a foundation for subsequent studies in pharmacy. It is studied jointly with students in science and medicine. Studies cover: (a) the basic facts and concepts relating to the human body's structural and functional organisation at different levels (cells, tissues, organs, systems), and the constituent regions, parts and organs of all the several body systems and their functional interactions; (b) the range of normal variation in human anatomy and physiology, including those aspects showing important developmental and functionally related changes and the variety of relationships between structure and function; and (c) anatomical and physiological terminology which enables students to discuss, orally or in writing, facts, concepts, problems and biomedical issues relating to the structural and functional organisation of the body.

On completion of CHG111 students receive a XX (results shown in another unit) result. The final result for this unit is granted on completion of CHG112.

**Requisites:** PREREQ - CH856 and (PH866 or MT841) COREQ - CHG112

**Staff:** Assoc Prof M Maskrey, Dr L Weller (Coordinators), staff of Anatomy & Physiology

**Teaching Pattern:** up to 7 hrs contact time per student (lectures, tutorials and practical sessions)

**Assessment:** Sem 1 exam (30%), end-of-year exam (30%), practicals (20%) and quizzes (20%)

**Required Texts:** Tortora GJ and Grabowski SR, *Principles of Anatomy & Physiology*, ISBN 0471224723

**Practical manual:** *Experiments/Explorations in Human Biology*, Univ Tas, 2005

Essential equipment includes a clean, white lab coat.

**Offered in Courses:** [M3F]

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### CHG113 - Histology and Cell Biology

**Special Note:** Students are required to enrol concurrently in CHG113 and CHG114

**Description:** A sound basic knowledge of histology (microscopic anatomy) and cell biology is one cornerstone of medical research. It serves as a basis for further studies and provides an understanding of normal structure and function of body systems while providing a framework to explain the pathological basis of many diseases. This unit will cover cell ultrastructure, tissues (epithelial, connective, muscle and nerve tissues), and the major body systems (integumentary, endocrine, nervous, cardiovascular, immune, lymphoid, respiratory, digestive, urinary and reproductive systems). The theoretical and practical components will concentrate on describing the structural elements of the cells, tissues and organs while relating this to functional aspects of the normal physiology and biochemistry. Running in parallel with the histology component will be a series of lectures, tutorials and/or assignments that will look at selected introductory material in cell biology to help to extend the structural knowledge gained from histology. This will be taught at a level not presently available and will act as a bridge to further studies in cell biology, molecular biology and histopathology that will help explain both the normal and pathologic basic of disease.

Topics covered will include membrane structure and function (pumps, carriers, channels and physiology), reception and transduction of
On completion of CHG113 students receive a XX (results shown in another unit) result. The final result for this unit is granted on completion of CHG114.

**Requisites:** COREQ - CHG114 COREQ - CHG105 and CHG106

**Staff:** Mr Rob Tennent and other teaching staff from the Discipline of Anatomy and Physiology

**Teaching Pattern:** Up to 7 hours contact time weekly (lectures, tutorials, practical classes, self (and group) directed learning)

**Assessment:** In course assignments (20%), theory exam (MCQ 20%, short answers 20%), practical exam (40%).

**Required Texts:** Eroschenko VP, di Fiore's *Atlas of Histology with Functional Correlations*

**Recommended Texts:** Young B, Heath JW, *Wheater's Functional Histology*

**Offered in Courses:** [ M3M ]

### Unit Delivery Information:

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### CHG114 - Histology and Cell Biology

**Special Note:** Students are required to enrol concurrently in CHG113 and CHG114

**Description:** A sound basic knowledge of histology (microscopic anatomy) and cell biology is one cornerstone of medical research. It serves as a basis for further studies and provides an understanding of normal structure and function of body systems while providing a framework to explain the pathological basis of many diseases. This unit will cover cell ultrastructure, tissues (epithelial, connective, muscle and nerve tissues), and the major body systems (integumentary, endocrine, nervous, cardiovascular, immune, lymphoid, respiratory, digestive, urinary and reproductive systems). The theoretical and practical components will concentrate on describing the structural elements of the cells, tissues and organs while relating this to functional aspects of the normal physiology and biochemistry. Running in parallel with the histology component will be a series of lectures, tutorials and/or assignments that will look at selected introductory material in cell biology to help to extend the structural knowledge gained from histology. This will be taught at a level not presently available and will act as a bridge to further studies in cell biology, molecular biology and histopathology that will help explain both the normal and pathologic basic of disease. Topics covered will include membrane structure and function (pumps, carriers, channels and physiology), reception and transduction of environmental information (signalling pathways, membrane receptors, messengers), cellular interactions with the extracellular matrix (cellular adhesion, intercellular junctions), the cell cycle and apoptosis. Throughout the unit emphasis will be on relating structure to function and where possible clinical examples will be used to illustrate the principles of both histology and cell biology. The unit is structured so that material complements and reinforces topics in Human Biology (CHG100), and provides a comprehensive preparation for the second year unit Pathological Basis of Disease (CJA212).

On completion of CHG113 students receive a XX (results shown in another unit) result. The final result for this unit is granted on completion of CHG114.

**Requisites:** COREQ - CHG113 COREQ - CHG105 and CHG106

**Staff:** Mr Rob Tennent and other teaching staff from the Discipline of Anatomy and Physiology

**Teaching Pattern:** Up to 7 hours contact time weekly (lectures, tutorials, practical classes, self (and group) directed learning)

**Assessment:** In course assignments (20%), theory exam (MCQ 20%, short answers 20%), practical exam (40%).

**Required Texts:** Eroschenko VP, di Fiore's *Atlas of Histology with Functional Correlations*

**Recommended Texts:** Young B, Heath JW, *Wheater's Functional Histology*

**Offered in Courses:** [ M3M ]

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### CHG211 - Structure and Function - Clinical Correlations A

**Special Note:** On completion of CHG211 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CHG212. Students are required to enrol concurrently in CHG211 and CHG212.

**Description:** Builds on the integrated teaching of structure and function in the CHG110 and provides an in depth approach to major body systems (apart from the nervous system), in which anatomy (including medical imaging), histology, physiology, pharmacology and aspects of biochemistry are integrated in a case based approach, in order to provide an appropriate basis for clinical studies. The unit is taught as a series of blocks (cardiovascular, respiratory, renal and gastrointestinal), beginning with an illustrative case study and finishing with a clinical synthesis. All students undertake a clinical project which emphasises the links between clinical practice and the medical sciences.

**Requisites:** COREQ - CBA200 COREQ - CJA212> COREQ - CAM205 PREREQ - 1st-year Medicine COREQ - CHG212

**Staff:** Dr J Walls (Coordinator), Dr L Fox, Dr D Choi-Lundberg, Mr R Phillips, Dr S Hitchins, Dr J Healy, Assoc Prof S Nicol, Assoc Prof M Maskrey, Mr R Tennent and Ms D Moyle

**Teaching Pattern:** 68 hrs lectures, 39 hrs tutorials, 40 hrs student presentation, 95 hrs practicals, 78 hrs student directed learning (sem 1 and 2 combined)

**Assessment:** sem 1: integrated 3-hr written exam (15%), 1-hr practical exam (15%), 20 minute oral examination (10%); sem 2: 2.5-hr integrated written exam (20%), 1-hr practical exam (20%), 20 minute oral examination, continual assessment (20%)
Lilly, *Pathophysiology of Heart Disease*, ISBN 068 3302205
Smith, *The Digestive System*, ISBN 0443062455
West, *Pulmonary Physiology and Pathophysiology*, ISBN 0718721906

Offered in Courses: [ M3J ] [ M3B ] [ M4B ]

Unit Delivery Information:

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**CHG212 - Structure and Function - Clinical Correlations B**

**Special Note:** On completion of CHG211 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CHG212. Students are required to enrol concurrently in CHG211 and CHG212.

**Description:** Builds on the integrated teaching of structure and function in the CHG110 and provides an in depth approach to major body systems (apart from the nervous system), in which anatomy (including medical imaging), histology, physiology, pharmacology and aspects of biochemistry are integrated in a case based approach, in order to provide an appropriate basis for clinical studies. The unit is taught as a series of blocks (cardiovascular, respiratory, renal and gastrointestinal), beginning with an illustrative case study and finishing with a clinical synthesis. All students undertake a clinical project which emphasises the links between clinical practice and the medical sciences.

**Requisites:** COREQ - CBA200 COREQ - CIA212> COREQ - CAM205 PREREQ - 1st-year Medicine COREQ - CHG211

**Staff:** Dr J Walls (Coordinator), Dr L Foa, Dr D Choi-Lundberg, Mr R Phillips, Dr S Hitchins, Dr J Healy, Assoc Prof S Nicol, Assoc Prof M Maskrey, Mr R Tennent and Ms D Moyle

**Teaching Pattern:** 68 hrs lectures, 39 hrs tutorials, 40 hrs student presentation, 95 hrs practicals, 78 hrs student directed learning (sem 1 and 2 combined)

**Assessment:**
- sem 1: integrated 3-hr written exam (15%), 1-hr practical exam (15%), 20 minute oral examination (10%); sem 2: 2.3-hr integrated written exam (20%), 1-hr practical exam (20%), 20 minute oral examination, continual assessment (20%)

**Required Texts:** Ellis H, *Clinical Anatomy*, ISBN 0632024097
Lilly, *Pathophysiology of Heart Disease*, ISBN 068 3302205
Smith, *The Digestive System*, ISBN 0443062455
West, *Pulmonary Physiology and Pathophysiology*, ISBN 0718721906

**Offered in Courses:** [ M3J ] [ M3B ] [ M4B ]

Unit Delivery Information:

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**CHN115 - Gross Anatomy A**

**Special Note:** Enrolments must be approved by staff of Anatomy & Physiology

**Description:** Anatomy of the human upper limb and lower limb by a combination of lectures and practical work including dissection of human cadavers, preparations, and a combination of practical work including dissection of human cadavers, prosections, models and medical imaging studies. Allows direct entry second-year medical students to advance their knowledge of anatomy where this is insufficient. Non-award students may be accepted into the unit in special circumstances.

**Requisites:** PREREQ - CHG100 - Potential Non-award students should contact the Discipline of Anatomy & Physiology to discuss their suitability

**Staff:** Dr Choi-Lundberg and staff of Anatomy & Physiology

**Teaching Pattern:** 1 x Lecture, 2 x 2-hr practical sessions, 0.5-hr tutorial weekly

**Assessment:** end-of-sem theory exam (60%) and practical exam (40%)

**Required Texts:**
- an Atlas of Anatomy:
  and the following texts:

**Essential Equipment** includes:
- Long white lab coat exclusively for use in the dissecting laboratory
- One pair of anti-splash safety goggles
The following instruments: one pair of non-toothed dissecting forceps; one scalpel handle and blades; one pair of curved, blunt-ended scissors. (Seek advice before obtaining these.)

**Offered in Courses:** [M3J] [M3B] [M4B] [M3M]

### Unit Delivery Information:

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**CHN225 - Gross Anatomy B**

**Special Note:** Enrolments must be approved by staff of Anatomy & Physiology

**Description:** Anatomy of the human abdomen, thorax and pelvis by a combination of lectures and practical work including dissection of human cadavers, prosections, models and medical imaging studies. Allows direct entry third-year medical students to advance their knowledge of anatomy where this is insufficient. Non-award students may be accepted into the unit in special circumstances.

**Requisites:** PREREQ - CHG100

**Staff:** Dr Choi-Lundberg and staff of Anatomy & Physiology

**Teaching Pattern:** 1 x Lecture, 2 x 2-hr practical sessions, 1 x 1-hr tutorial weekly

**Assessment:** end-of-sem theory exam (60%) and practical exam (40%)

**Essential Equipment:**

**Recommended Texts:**

**Offered in Courses:** [M3J] [M3B] [M4B] [M3M]

### Unit Delivery Information:

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**CHN415 - Psychology 4 (Honours)**

**Description:** Is for students enrolling for honours in the School of Psychology who wish to include a laboratory-based component of neuroscience in their honours program. The unit introduces them to research in neuroanatomical science through active pursuit of a research project and the critical review of relevant literature. Students prepare and submit a thesis which is based on research undertaken within Anatomy & Physiology in the field of neuroanatomy.

**Requisites:** PREREQ - CHP306 COREQ - KHA400 or KHA401 or KHA415 or KHA416

**Staff:** Dr I Chuah (Coordinator), and staff of Anatomy & Physiology

**Teaching Pattern:** no formal periods of instruction are given

**Assessment:** thesis

**Offered in Courses:** [S4G]

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**CHP207 - Human Physiology**

**Special Note:** Students are required to enrol concurrently in CHP2X07 and CHP208

**Description:** Builds on Human Biology (CHG105 and CHG106), giving students an understanding of the function of the main physiological systems and their integration and interaction in the human body. Students learn how to collect and interpret relevant information in order to develop logical ways of dealing with problems associated with the function and control of physiological systems. In addition students are given the opportunity to develop their oral, written and computer literacy skills.

The unit includes the study of: the cardiovascular; respiratory; gastrointestinal and renal systems; some aspects of sports science; integrated physiology; and the patho-physiological consequences of disease in these systems. Some project work is carried out at the Royal Hobart Hospital and other clinical placements.

On completion of CHP207 students receive a XX (results shown in another unit) result. The final result for this unit is granted on completion of CHP208

**Requisites:** PREREQ - CHG105 and CHG106 or KZA150; students without prereqs should consult unit coordinator COREQ - CHP208

**Staff:** Dr J Walls (Coordinator), Assoc Prof S Nicol, Assoc Prof M Maskrey, Dr S Hitchins, Dr S Parkes, Mr R Phillips, Ms D Moyle

**Teaching Pattern:** 2 hrs lectures, 3 hrs practical, 1-hr tutorial weekly

**Assessment:** Summative semester 1 (20%), Semester 2 (45%) and summative in course assessment (35%)

**Required Texts:** A practical manual (for which there is a small levy) is supplied.

**Recommended Texts:** Jacobson and Levine, Clinical GI Physiology for the Exam Taker, ISBN 0721637019

**Offered in Courses:** [S3G] [S3I]

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CHP208 - Human Physiology

**Special Note:** Students are required to enrol concurrently in CHP2X07 and CHP208

**Description:** Builds on Human Biology (CHG105 and CHG106), giving students an understanding of the function of the main physiological systems and their integration and interaction in the human body. Students learn how to collect and interpret relevant information in order to develop logical ways of dealing with problems associated with the function and control of physiological systems. In addition students are given the opportunity to develop their oral, written and computer literacy skills.

The unit includes the study of: the cardiovascular; respiratory; gastrointestinal and renal systems; some aspects of sports science; integrated physiology; and the patho-physiological consequences of disease in these systems. Some project work is carried out at the Royal Hobart Hospital and other clinical placements.

On completion of CHP207 students receive a XX (results shown in another unit) result. The final result for this unit is granted on completion of CHP208

**Requisites:**
- PREREQ - CHG105 and CHG106 or KZA150; students without prereqs should consult unit coordinator
- COREQ - CHP207

**Staff:**
- Dr J Walls (Coordinator), Assoc Prof S Nicol, Assoc Prof M Maskrey, Dr S Hitchins, Dr S Parkes, Mr R Phillips, Ms D Moyle

**Teaching Pattern:**
- 2 hrs lectures, 3 hrs practical, 1-hr tutorial weekly

**Assessment:**
- Summative semester 1 (20%), Semester 2 (45%) and summative in course assessment (35%)

**Required Texts:**
- A practical manual (for which there is a small levy) is supplied.

**Offered in Courses:** [
- S3G
- S3I
]

**Unit Delivery Information:**

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CHP311 - Neuroscience A

**Special Note:** runs concurrently with CAM320 for medical students; classes commence in February one week before the rest of the University.

**Description:** Provides an understanding of the integrated structure and function of the nervous system. The unit deals with major functional systems (for example, somatosensory system, motor system, vision and hearing and higher level processing), with emphasis on normal function and effects of pathological lesions. Where appropriate, cellular neuroscience is introduced to enhance understanding of the nervous system. Theoretical understanding of neurological tests is covered to demonstrate an applied component of basic neuroscience. The core lecture series is amplified by practical classes with both a structural and functional orientation.

**Requisites:**
- PREREQ - CHG100 and an appropriate level 200 unit or CHP206

**Staff:**
- Assoc Prof MI Chuah (Coordinator), staff of Anatomy & Physiology

**Teaching Pattern:**
- 26 hours lectures, 33 hours practicals

**Assessment:**
- 2-hr written and 1-hr practical mid-sem test (35%), 2-hr written and 1-hr practical end-of-sem exam (65%)  

**Required Texts:**

**Recommended Texts:**
- Reference texts and atlas

**Offered in Courses:** [
- S3G
- S3I
]

**Unit Delivery Information:**

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CHP312 - Neuroscience B

**Description:** Follows on directly from CHP311 Neuroscience A. The unit provides an understanding of contemporary research issues particularly in development, cell biology and molecular biology of cellular constituents of the nervous system. The unit emphasises experimental methods and techniques and the evidence on which current understanding is based. It aims to develop the students' understanding of the nervous system and their ability to analyse and present experimental data. Teaching consists of seminar discussions, supported by practical classes and project work. A research project is an essential component of the unit; it is of a practical nature and extends for approximately 10 weeks.

**Requisites:**
- PREREQ - CHP311

**Staff:**
- Assoc Prof MI Chuah (Coordinator), staff of Anatomy & Physiology

**Teaching Pattern:**
- 75 hrs project work

**Assessment:**
- oral project report (20%), written project report (30%), review paper (40%), journal paper presentation (10%)

**Recommended Texts:**

**Appropriate journal articles will be indicated during the year.**

**Offered in Courses:** [
- S3G
- S3I
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**Unit Delivery Information:**

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execute, interpret, analyse and communicate the results of their experimental work. Modern physiological research involves a wide range of techniques from the molecular to working with whole animals and human subjects and including a whole range of methods in cell biology, exercise physiology, molecular physiology. A successful Honours year is hard work but enjoyable for appropriately motivated students.

The main areas of research within the Discipline are: developmental neurobiology, comparative physiology, respiratory physiology, human immunology, physiological system monitoring, morphological and biochemical techniques.

Students are strongly advised to have detailed discussion with the prospective supervisor and other staff and students in the laboratory they are contemplating joining, before making a decision on an Honours year.

Requisites: PREREQ - CHP206
Staff: Dr JT Walls (Coordinator), staff of Anatomy & Physiology
Teaching Pattern: 1 lecture/seminar, 1 tutorial and 3-hr practical/project time weekly (13 wks)
Assessment: Project (60%), Seminar presentation (20%) and Essays (20%)

Offered in Courses: [ S3G ] [ S3I ]

Unit Delivery Information:

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CHP420 - Physiology 4 (BSc Honours) FTA

Special Note: On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CHP421 for full time student and CHP425 for part time students. Full time student enrol in CHP420 and CHP421. Part time students enrol in CHP422, CHP423, CHP424 and CHP425.

Description: Provides students with an experience in laboratory based research. This is achieved mainly by students working on a specific research project. With appropriate guidance from their supervisor (a member of the academic or research staff of the division), students plan, execute, interpret, analyse and communicate the results of their experimental work. Modern physiological research involves a wide range of techniques from the molecular to working with whole animals and human subjects and including a whole range of methods in cell biology, immunology, physiological system monitoring, morphological and biochemical techniques.

The major areas of research within the Discipline are: developmental neurobiology, comparative physiology, respiratory physiology, human exercise physiology, molecular physiology. A successful Honours year is hard work but enjoyable for appropriately motivated students. Students are strongly advised to have detailed discussion with the prospective supervisor and other staff and students in the laboratory they are contemplating joining, before making a decision on an Honours year.

Requisites: COREQ - CHP421
Staff: Assoc Prof M Maskrey and staff of Anatomy & Physiology
Teaching Pattern: research project, seminar and thesis
Assessment: main research projects, thesis (70%), lab work during the year (10%), seminar (20%)

Offered in Courses: [ S4E ]

Unit Delivery Information:

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CHP421 - Physiology 4 (BSc Honours) FTB

Special Note: On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CHP421 for full time student and CHP425 for part time students. Full time student enrol in CHP420 and CHP421. Part time students enrol in CHP422, CHP423, CHP424 and CHP425.

Description: Provides students with an experience in laboratory based research. This is achieved mainly by students working on a specific research project. With appropriate guidance from their supervisor (a member of the academic or research staff of the division), students plan, execute, interpret, analyse and communicate the results of their experimental work. Modern physiological research involves a wide range of techniques from the molecular to working with whole animals and human subjects and including a whole range of methods in cell biology, immunology, physiological system monitoring, morphological and biochemical techniques.

The major areas of research within the Discipline are: developmental neurobiology, comparative physiology, respiratory physiology, human exercise physiology, molecular physiology. A successful Honours year is hard work but enjoyable for appropriately motivated students. Students are strongly advised to have detailed discussion with the prospective supervisor and other staff and students in the laboratory they are contemplating joining, before making a decision on an Honours year.

Requisites: COREQ - CHP420
Staff: Assoc Prof M Maskrey and staff of Anatomy & Physiology
Teaching Pattern: research project, seminar and thesis
Assessment: main research projects, thesis (70%), lab work during the year (10%), seminar (20%)

Offered in Courses: [ S4E ]

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CHP422 - Physiology 4 (BSc Honours) PTA

Special Note: On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CHP421 for full time student and CHP425 for part time students. Full time student enrol in CHP420 and CHP421. Part time students enrol in CHP422, CHP423, CHP424 and CHP425.

Description: Provides students with an experience in laboratory based research. This is achieved mainly by students working on a specific research project. With appropriate guidance from their supervisor (a member of the academic or research staff of the division), students plan, execute, interpret, analyse and communicate the results of their experimental work. Modern physiological research involves a wide range of techniques from the molecular to working with whole animals and human subjects and including a whole range of methods in cell biology, immunology, physiological system monitoring, morphological and biochemical techniques.

The major areas of research within the Discipline are: developmental neurobiology, comparative physiology, respiratory physiology, human exercise physiology, molecular physiology. A successful Honours year is hard work but enjoyable for appropriately motivated students. Students are strongly advised to have detailed discussion with the prospective supervisor and other staff and students in the laboratory they are contemplating joining, before making a decision on an Honours year.

Requisites: COREQ - CHP420
Staff: Assoc Prof M Maskrey and staff of Anatomy & Physiology
Teaching Pattern: research project, seminar and thesis
Assessment: main research projects, thesis (70%), lab work during the year (10%), seminar (20%)

Offered in Courses: [ S4E ]

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University of Tasmania, Unit Guide 2006 www.utas.edu.au/units/ 473
techniques from the molecular to working with whole animals and human subjects and including a whole range of methods in cell biology, immunology, physiological system monitoring, morphological and biochemical techniques.

The main areas of research within the Discipline are: developmental neurobiology, comparative physiology, respiratory physiology, human exercise physiology, molecular physiology. A successful Honours year is hard work but enjoyable for appropriately motivated students. Students are strongly advised to have detailed discussion with the prospective supervisor and other staff and students in the laboratory they are contemplating joining, before making a decision on an Honours year.

**Requisites:** COREQ - CHP421

**Staff:** Assoc Prof M Maskrey and staff of Anatomy & Physiology

**Teaching Pattern:** research project, seminar and thesis

**Assessment:** main research projects, thesis (70%), lab work during the year (10%), seminar (20%)

**Offered in Courses:** [ S4E ]

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### CHP423 - Physiology 4 (BSc Honours) PTB

**Special Note:** On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CHP421 for full time student and CHP423 for part time students. Full time student enrol in CHP420 and CHP421. Part time students enrol in CHP422, CHP423, CHP424 and CHP425.

**Description:** Provides students with an experience in laboratory based research. This is achieved mainly by students working on a specific research project. With appropriate guidance from their supervisor (a member of the academic or research staff of the division), students plan, execute, interpret, analyse and communicate the results of their experimental work. Modern physiological research involves a wide range of techniques from the molecular to working with whole animals and human subjects and including a whole range of methods in cell biology, immunology, physiological system monitoring, morphological and biochemical techniques.

The main areas of research within the Discipline are: developmental neurobiology, comparative physiology, respiratory physiology, human exercise physiology, molecular physiology. A successful Honours year is hard work but enjoyable for appropriately motivated students. Students are strongly advised to have detailed discussion with the prospective supervisor and other staff and students in the laboratory they are contemplating joining, before making a decision on an Honours year.

**Requisites:** COREQ - CHP422

**Staff:** Assoc Prof M Maskrey and staff of Anatomy & Physiology

**Teaching Pattern:** research project, seminar and thesis

**Assessment:** main research projects, thesis (70%), lab work during the year (10%), seminar (20%)

**Offered in Courses:** [ S4E ]

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### CHP424 - Physiology 4 (BSc Honours) PTC

**Special Note:** On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CHP421 for full time student and CHP423 for part time students. Full time student enrol in CHP420 and CHP421. Part time students enrol in CHP422, CHP423, CHP424 and CHP425.

**Description:** Provides students with an experience in laboratory based research. This is achieved mainly by students working on a specific research project. With appropriate guidance from their supervisor (a member of the academic or research staff of the division), students plan, execute, interpret, analyse and communicate the results of their experimental work. Modern physiological research involves a wide range of techniques from the molecular to working with whole animals and human subjects and including a whole range of methods in cell biology, immunology, physiological system monitoring, morphological and biochemical techniques.

The main areas of research within the Discipline are: developmental neurobiology, comparative physiology, respiratory physiology, human exercise physiology, molecular physiology. A successful Honours year is hard work but enjoyable for appropriately motivated students. Students are strongly advised to have detailed discussion with the prospective supervisor and other staff and students in the laboratory they are contemplating joining, before making a decision on an Honours year.

**Requisites:** COREQ - CHP425

**Staff:** Assoc Prof M Maskrey and staff of Anatomy & Physiology

**Teaching Pattern:** research project, seminar and thesis

**Assessment:** main research projects, thesis (70%), lab work during the year (10%), seminar (20%)

**Offered in Courses:** [ S4E ]

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### CHP425 - Physiology 4 (BSc Honours) PTC

**Special Note:** On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CHP421 for full time student and CHP423 for part time students. Full time student enrol in CHP420 and CHP421. Part time students enrol in CHP422, CHP423, CHP424 and CHP425.

**Description:** Provides students with an experience in laboratory based research. This is achieved mainly by students working on a specific research project. With appropriate guidance from their supervisor (a member of the academic or research staff of the division), students plan,
execute, interpret, analyse and communicate the results of their experimental work. Modern physiological research involves a wide range of techniques from the molecular to working with whole animals and human subjects and including a whole range of methods in cell biology, immunology, physiological system monitoring, morphological and biochemical techniques.

The main areas of research within the Discipline are: developmental neurobiology, comparative physiology, respiratory physiology, human exercise physiology, molecular physiology. A successful Honours year is hard work but enjoyable for appropriately motivated students. Students are strongly advised to have detailed discussion with the prospective supervisor and other staff and students in the laboratory they are contemplating joining, before making a decision on an Honours year.

**Requisites:** COREQ - CHP424

**Staff:** Assoc Prof M Maskrey and staff of Anatomy & Physiology

**Teaching Pattern:** research project, seminar and thesis

**Assessment:** main research projects, thesis (70%), lab work during the year (10%), seminar (20%)

**Offered in Courses:** [ S4E ]

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**CJA212 - Pathological Basis of Disease 2**

**Description:** Teaches students the basic processes of disease by providing a foundation in human pathology and immunity.

**Requisites:** PREREQ - 1st year medicine COREQ - CHG210, CBA200

**Staff:** D Assenheimer and Assoc Prof GM Woods (Coordinators), Prof JC Vickers

**Teaching Pattern:** lectures, tutorials, laboratory sessions, WebCT Vista

**Assessment:** 2-hr theory exam (70%), 1-hr practical exam (30%), formative assessment (WebCT Vista) occurs throughout the unit


Rubin et al., *Rubin's Pathology Clinicopathologic Foundations of Medicine*, 4th edn, Lippincott, Williams and Wilkins, 2004


**Offered in Courses:** [ M3J ] [ M3B ] [ M4B ] [ M3M ]

**Unit Delivery Information:**

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**CJA213 - Microbiology A (Pharmacy)**

**Special Note:** On completion of CJA213 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CJA214. Students are required to enrol concurrently in CJA213 and CJA214.

**Description:** Comprises a study of medical microbiology giving students a knowledge of the causative agents of microbial diseases common in our community (or likely to occur here); an understanding of the means by which these agents produce disease and a knowledge of the sources from which they are derived, their mode of transmission and the basis of their diagnosis, treatment and prevention. Illustrated lectures and tutorials cover these aspects of the unit. Practical classes introduce students to common techniques used in the Microbiology Laboratory as well as to the laboratory handling of clinical specimens, the use of common isolation and identification techniques and the interpretation of results. Exercises reinforce and illustrate the material presented during the lectures and lab and lead to an understanding of the role of microbiologists in the diagnosis of infectious diseases.

**Requisites:** PREREQ - KRA160, CSA115, CHG101, PREREQ - CJA214

**Staff:** Assoc Prof SM Kirov (Coordinator), Assoc Prof GM Woods

**Teaching Pattern:** sem 1: 1--2 hrs weekly; sem 2: 2--5 hrs weekly

**Assessment:** 1-hr short answer and multiple-choice mid-year test (20%), continuous assessment: 2 x tutorial tests per sem (20%), 2-hr end of year exam (60%). Students must perform well in all sections of the assessment to pass the unit


**Useful texts for Practical classes**


**Offered in Courses:** [ M3F ]

**Unit Delivery Information:**

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CJA312 - Pathological Basis of Disease 3

Special Note: taught by Discipline of Pathology; Start Date for this unit is Tuesday, 15 February 2005

Description: Builds on CJA212 Pathological Basis of Disease 2. This unit will introduce students to a systematic approach to microbiology in preparation for the application of knowledge to the broader clinical approach to infectious diseases, addressed in following Units CJA325 and CJA400. The course will emphasise three themes; the structure, virulence and pathogenesis of infections and common clinical syndromes caused by micro-organisms; the use and interpretation of relevant investigations, basic laboratory practice and the role of the microbiology laboratory; and an introduction to the concepts of treatment, prevention and control of infections.

Requisites: PREREQ - 2nd year Medicine

Staff: Dr A Egan and Dr T Anderson (Unit Coordinators)

Teaching Pattern: lectures, tutorials, practical work, weekly demo of autopsy material

Assessment: 1-hr practical exam (30%); 2-hr theory exam (70%); formative assessment occurs throughout the unit


Recommended Texts: Nairn R & Herbert M, Immunology for Medical Students, 1st edn, Mosby, 2002

or Underwood JCE, General and Systematic Pathology, 3rd edn, Churchill Livingstone, 2000

MacSween RNM & Whaley K, Muir’s Textbook of Pathology, 13th edn, Edward Arnold, 1992


Offered in Courses: [ M3J ] [ M3B ] [ M4B ]

Unit Delivery Information:

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CJA313 - Medical Microbiology and Immunology

Special Note: The result awarded for CJA313 is an XX (result shown in another unit). The final result is awarded in CJA314. CJA313 and CJA314 are to be studied concurrently.

Description: Brings together two disciplines: (a) Medical Microbiology -- a systematic coverage of causative agents of microbial diseases common in our community or likely to occur here; mechanisms of microbial pathogenicity; sources and transmission of infection; introduction to the laboratory diagnosis of microbial pathogens; basis of treatment and prevention; and (b) Immunology -- introduction to the basic principles of the immune system; the major defence mechanisms of the body against foreign invaders; cytokines; immunoglobulins; the cells of the immune system; its regulation and control; its role in disease, tissue transplantation and rejection and immuno-surveillance against cancer.

(This unit, together with KLA398 and KLA396, may form part of a microbiology major in the BSc program)

Requisites: PREREQ - KLA210 COREQ - CJA314

Staff: Assoc Prof SM Kirov, Assoc Prof GM Woods (Coordinators)

Teaching Pattern: 6 hrs weekly lectures/tutorials/practicals
CJA314 - Medical Microbiology and Immunology

Special Note: The result awarded for CJA314 is an XX (result shown in another unit). The final result is awarded in CJA314. CJA313 and CJA314 are to be studied concurrently.

Description: Brings together two disciplines: (a) Medical Microbiology -- a systematic coverage of causative agents of microbial diseases common in our community or likely to occur here; mechanisms of microbial pathogenicity; sources and transmission of infection; introduction to the laboratory diagnosis of microbial pathogens; basis of treatment and prevention; and (b) Immunology -- introduction to the basic principles of the immune system; the major defence mechanisms of the body against foreign invaders; cytokines; immunoglobulins; the cells of the immune system; its regulation and control; its role in disease, tissue transplantation and rejection and immuno-surveillance against cancer.

(This unit, together with KLA398 and KLA396, may form part of a microbiology major in the BSc program)

Abbas AK et al, *Cellular and Molecular Immunology*, 5th edn, Saunders, ISBN 0721682332

Recommended Texts: Mims CA, Dockrell HM, Goering RV et al, *Medical Microbiology*, Mosby, latest edn

Offered in Courses: [ S3G ] [ S4E ] [ S3I ]

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CJA315 - Special Pathology 3

Special Note: This unit continues through semester 1 of the 4th year (as CJA410); taught by Discipline of Pathology

Description: Emphasises the understanding of pathology and includes clinico-pathological correlation as part of the preparation for the use of pathology in clinical practice. Communication skills are further developed, with students taking an active part in teaching sessions.


Offered in Courses: [ M3J ] [ M3B ] [ M4B ]

Unit Delivery Information:

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CJA325 - Clinical Microbiology 3

Special Note: This unit continues through semester 1 of the 4th year (as CJA400); taught by Discipline of Pathology

Description: Consists of interactive lectures, case-based tutorials and practical exercises in Clinical Microbiology, infections being dealt with by body system. Lectures cover the viral, bacterial, mycotic and parasitic diseases of humans with emphasis being placed on epidemiology, clinical aspects and pathogenesis, diagnosis, treatment and control. Lectures are also given on antimicrobial use, immunisation and travel-related disease. Case-based learning exercises are presented by the students.
Units Coded C – Faculty of Health Science

Requisites: PREREQ - CJA312, CAM320 COREQ - CJA315
Staff: Prof JC Vickers (Coordinator), Assoc Prof SM Kirov, Assoc Prof GM Woods, Dr S Bettiol, Dr Anne Egan, Dr Tara Anderson, staff of LGH and RHH

Teaching Pattern: interactive lectures, practicals, tutorials and clinico-pathological conference style teaching

Assessment: theory exam; formative assessment occurs throughout the unit; marks for this unit are incorporated into CJA400; the result awarded for this unit is XX.

Vietorian Drug Usage Advisory Committee, Antibotic Guidelines, 8th edn, 1994

Recommended Texts: Murray PR, et al, Medical Microbiology, 4th edn, Mosby, 2002
Inglis TJI, Churchill’s Pocketbook of Clinical Microbiology, Churchill Livingstone, 1997

Offered in Courses: [ M3J ] [ M3B ] [ M4B ]

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CJA400 - Clinical Microbiology 4

Description: Is the continuation of CJA325.

Requisites: PREREQ - CJA315, CJA325
Staff: Prof JC Vickers (Coordinator), Assoc Prof SM Kirov, Assoc Prof GM Woods, Dr Anne Egan, Dr Tara Anderson, Dr Silvana Bettiol, staff of RHH and LGH

Assessment: theory and practical exam, written assignments, case-based presentation assessment; formative assessment occurs throughout the unit


Victorian Drug Usage Advisory Committee, Antibotic Guidelines, 8th edn, 1994

Recommended Texts: Murray PR, et al, Medical Microbiology, 4th edn, Mosby, 2002
Inglis TJI, Churchill’s Pocketbook of Clinical Microbiology, Churchill Livingstone, 1997

Offered in Courses: [ M3J ] [ M3B ] [ M4B ]

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CJA410 - Special Pathology 4

Description: Is the continuation of CJA315.

Requisites: PREREQ - CJA315, CJA325
Staff: Prof JC Vickers (Coordinator), Dr D Assenheimer and staff of the RHH Department of Pathology

Teaching Pattern: lectures/demonstrations, tutorials, practical classes and case-based learning exercises

Assessment: theory exam, practical exam, written assignments, case-based learning presentations; marks awarded in CJA315 count towards this unit; formative assessment occurs throughout the unit

Required Texts: Robbins SL et al, Pathological Basis of Disease, 6th edn, Saunders, 1999
OR Underwood JC, General and Systematic Pathology, 3rd edn, Churchill Livingstone, 2000
Practical Manual, III & IV Year Medicine, General & Special Pathology.


Offered in Courses: [ M3J ] [ M3B ] [ M4B ]

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CJA424 - Biotechnology Honours in Microbiology FTA

Special Note: On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CJA425 for full time student and CJA429 for part time students. Full time student enrol in CJA424 and CJA425. Part time students enrol in CJA426, CJA427, CJA428 and CJA429 concurrently over two years.

Description: Students are expected to undertake advanced level, formal study as directed by the supervisor; they are required to present a reading thesis on an approved topic as described under the course structure. The thesis component will represent 87.5% or 100% depending on the student's background. If the former, the balance will be made up of a level 3 unit determined by the supervisor and forming part of the final assessment. The School/Discipline will provide specific details on assessment procedure and criteria used.

Requisites: COREQ - CJA425
Staff: Assoc. Professor S Kirov

Assessment: Research thesis: 100% or 87.5%, unit component if undertaken: 12.5%
Units Coded C – Faculty of Health Science

Offered in Courses: [ S4V ]

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CJA425 - Biotechnology Honours in Microbiology FTB

Special Note: On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CJA425 for full time student and CJA429 for part time students. Full time student enrol in CJA424 and CJA425. Part time students enrol in CJA426, CJA427, CJA428 and CJA429 concurrently over two years.

Description: Students are expected to undertake advanced level, formal study as directed by the supervisor; they are required to present a reading thesis on an approved topic as described under the course structure. The thesis component will represent 87.5% or 100% depending on the student's background. If the former, the balance will be made up of a level 3 unit determined by the supervisor and forming part of the final assessment. The School/Discipline will provide specific details on assessment procedure and criteria used.

Requisites: COREQ - CJA424

Staff: Assoc. Professor S Kirov

Assessment: Research thesis: 100% or 87.5%, unit component if undertaken: 12.5%

Offered in Courses: [ S4V ]

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CJA426 - Biotechnology Honours in Microbiology PTA

Special Note: On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CJA425 for full time student and CJA429 for part time students. Full time student enrol in CJA424 and CJA425. Part time students enrol in CJA426, CJA427, CJA428 and CJA429 concurrently over two years.

Description: Students are expected to undertake advanced level, formal study as directed by the supervisor; they are required to present a reading thesis on an approved topic as described under the course structure. The thesis component will represent 87.5% or 100% depending on the student's background. If the former, the balance will be made up of a level 3 unit determined by the supervisor and forming part of the final assessment. The School/Discipline will provide specific details on assessment procedure and criteria used.

Requisites: COREQ - CJA427

Staff: Assoc. Professor S Kirov

Assessment: Research thesis: 100% or 87.5%, unit component if undertaken: 12.5%

Offered in Courses: [ S4V ]

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CJA427 - Biotechnology Honours in Microbiology PTC

Special Note: On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CJA425 for full time student and CJA429 for part time students. Full time student enrol in CJA424 and CJA425. Part time students enrol in CJA426, CJA427, CJA428 and CJA429 concurrently over two years.

Description: Students are expected to undertake advanced level, formal study as directed by the supervisor; they are required to present a reading thesis on an approved topic as described under the course structure. The thesis component will represent 87.5% or 100% depending on the student's background. If the former, the balance will be made up of a level 3 unit determined by the supervisor and forming part of the final assessment. The School/Discipline will provide specific details on assessment procedure and criteria used.

Requisites: COREQ - CJA428

Staff: Assoc. Professor S Kirov

Assessment: Research thesis: 100% or 87.5%, unit component if undertaken: 12.5%

Offered in Courses: [ S4V ]

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CJA428 - Biotechnology Honours in Microbiology PTC

Special Note: On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CJA425 for full time student and CJA429 for part time students. Full time student enrol in CJA424 and CJA425. Part time students enrol in CJA426, CJA427, CJA428 and CJA429 concurrently over two years.

Description: Students are expected to undertake advanced level, formal study as directed by the supervisor; they are required to present a reading thesis on an approved topic as described under the course structure. The thesis component will represent 87.5% or 100% depending on the student's background. If the former, the balance will be made up of a level 3 unit determined by the supervisor and forming part of the final assessment. The School/Discipline will provide specific details on assessment procedure and criteria used.

Requisites: COREQ - CJA429

Staff: Assoc. Professor S Kirov

Assessment: Research thesis: 100% or 87.5%, unit component if undertaken: 12.5%
**Units Coded C – Faculty of Health Science**

**Offered in Courses:** [S4V]

**Unit Delivery Information:**

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**CJA429 - Biotechnology Honours in Microbiology PTD**

**Special Note:** On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CJA425 for full time student and CJA429 for part time students. Full time student enrol in CJA424 and CJA425. Part time students enrol in CJA426, CJA427, CJA428 and CJA429 concurrently over two years.

**Description:** Students are expected to undertake advanced level, formal study as directed by the supervisor; they are required to present a reading thesis on an approved topic as described under the course structure. The thesis component will represent 87.5% or 100% depending on the student's background. If the former, the balance will be made up of a level 3 unit determined by the supervisor and forming part of the final assessment. The School/Discipline will provide specific details on assessment procedure and criteria used.

**Requisites:** COREQ - CJA428

**Staff:** Assoc. Professor S Kirov

**Assessment:** Research thesis: 100% or 87.5%, unit component if undertaken: 12.5%

**Offered in Courses:** [S4V]

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**CJA430 - Pathological Sciences (BSc Honours) FTA**

**Special Note:** On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CJA431 for full time student and CJA433 for part time students. Full time student enrol in CJA430 and CJA431. Part time students enrol in CJA432, CJA433, CJA434 and CJA435 concurrently over two years.

**Description:** Is taught in the Discipline of Pathology, where students undertake a research project in immunology, medical microbiology or neuropathology under the supervision of a member of that Discipline. Research projects are chosen from the interests of the Discipline of Pathology, which include: neurodegenerative disease; brain trauma; retinal disease; neural plasticity; tumour escape from the immune system; activation of suppressor cells; antigen-presenting cells; immunology of the skin; tumour biology; auto immunity; ultraviolet light and the immune system; microbial pathogenicity; bacterial colonisation mechanisms; gastrointestinal and respiratory infections; host immune responses to infection; plasmid evolution; antimicrobial resistance; and microbial population genetics. Students participate in a series of advanced tutorials.

**Requisites:** COREQ - CJA431

**Staff:** Assoc Prof SM Kirov, Dr GM Woods, Prof JC Vickers, Dr M Sherley

**Teaching Pattern:** research project and thesis, seminar presentations, advanced tutorials

**Offered in Courses:** [S4E]

**Unit Delivery Information:**

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**CJA431 - Pathological Sciences (BSc Honours) FTB**

**Special Note:** On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CJA431 for full time student and CJA433 for part time students. Full time student enrol in CJA430 and CJA431. Part time students enrol in CJA432, CJA433, CJA434 and CJA435 concurrently over two years.

**Description:** Is taught in the Discipline of Pathology, where students undertake a research project in immunology, medical microbiology or neuropathology under the supervision of a member of that Discipline. Research projects are chosen from the interests of the Discipline of Pathology, which include: neurodegenerative disease; brain trauma; retinal disease; neural plasticity; tumour escape from the immune system; activation of suppressor cells; antigen-presenting cells; immunology of the skin; tumour biology; auto immunity; ultraviolet light and the immune system; microbial pathogenicity; bacterial colonisation mechanisms; gastrointestinal and respiratory infections; host immune responses to infection; plasmid evolution; antimicrobial resistance; and microbial population genetics. Students participate in a series of advanced tutorials.

**Requisites:** COREQ - CJA430

**Staff:** Assoc Prof SM Kirov, Dr GM Woods, Prof JC Vickers, Dr M Sherley

**Teaching Pattern:** research project and thesis, seminar presentations, advanced tutorials

**Offered in Courses:** [S4E]

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**CJA432 - Pathological Sciences (BSc Honours) PTA**

**Special Note:** On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CJA431 for full time student and CJA433 for part time students. Full time student enrol in CJA430 and CJA431. Part time students enrol in CJA432, CJA433, CJA434 and CJA435 concurrently over two years.

**Description:** Is taught in the Discipline of Pathology, where students undertake a research project in immunology, medical microbiology or...
neuropathology under the supervision of a member of that Discipline. Research projects are chosen from the interests of the Discipline of Pathology, which include: neurodegenerative disease; brain trauma; retinal disease; neural plasticity; tumour escape from the immune system; activation of suppressor cells; antigen-presenting cells; immunology of the skin; tumour biology; auto immunity; ultraviolet light and the immune system; microbial pathogenicity; bacterial colonisation mechanisms; gastrointestinal and respiratory infections; host immune responses to infection; plasmid evolution; antimicrobial resistance; and microbial population genetics. Students participate in a series of advanced tutorials.

Requisites: COREQ - CJA433
Staff: Assoc Prof SM Kirov, Dr GM Woods, Prof JC Vickers, Dr M Sherley
Teaching Pattern: research project and thesis, seminar presentations, advanced tutorials
Offered in Courses: [ S4E ]

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CJA433 - Pathological Sciences (BSc Honours) PTB

Special Note: On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CJA431 for full time student and CJA435 for part time students. Full time student enrol in CJA430 and CJA431. Part time students enrol in CJA432, CJA433, CJA434 and CJA435 concurrently over two years.

Description: Is taught in the Discipline of Pathology, where students undertake a research project in immunology, medical microbiology or neuropathology under the supervision of a member of that Discipline. Research projects are chosen from the interests of the Discipline of Pathology, which include: neurodegenerative disease; brain trauma; retinal disease; neural plasticity; tumour escape from the immune system; activation of suppressor cells; antigen-presenting cells; immunology of the skin; tumour biology; auto immunity; ultraviolet light and the immune system; microbial pathogenicity; bacterial colonisation mechanisms; gastrointestinal and respiratory infections; host immune responses to infection; plasmid evolution; antimicrobial resistance; and microbial population genetics. Students participate in a series of advanced tutorials.

Requisites: COREQ - CJA432
Staff: Assoc Prof SM Kirov, Dr GM Woods, Prof JC Vickers, Dr M Sherley
Teaching Pattern: research project and thesis, seminar presentations, advanced tutorials
Offered in Courses: [ S4E ]

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CJA434 - Pathological Sciences (BSc Honours) PTC

Special Note: On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CJA431 for full time student and CJA435 for part time students. Full time student enrol in CJA430 and CJA431. Part time students enrol in CJA432, CJA433, CJA434 and CJA435 concurrently over two years.

Description: Is taught in the Discipline of Pathology, where students undertake a research project in immunology, medical microbiology or neuropathology under the supervision of a member of that Discipline. Research projects are chosen from the interests of the Discipline of Pathology, which include: neurodegenerative disease; brain trauma; retinal disease; neural plasticity; tumour escape from the immune system; activation of suppressor cells; antigen-presenting cells; immunology of the skin; tumour biology; auto immunity; ultraviolet light and the immune system; microbial pathogenicity; bacterial colonisation mechanisms; gastrointestinal and respiratory infections; host immune responses to infection; plasmid evolution; antimicrobial resistance; and microbial population genetics. Students participate in a series of advanced tutorials.

Requisites: COREQ - CJA435
Staff: Assoc Prof SM Kirov, Dr GM Woods, Prof JC Vickers, Dr M Sherley
Teaching Pattern: research project and thesis, seminar presentations, advanced tutorials
Offered in Courses: [ S4E ]

Unit Delivery Information:

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CJA435 - Pathological Sciences (BSc Honours) PTD

Special Note: On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CJA431 for full time student and CJA435 for part time students. Full time student enrol in CJA430 and CJA431. Part time students enrol in CJA432, CJA433, CJA434 and CJA435 concurrently over two years.

Description: Is taught in the Discipline of Pathology, where students undertake a research project in immunology, medical microbiology or neuropathology under the supervision of a member of that Discipline. Research projects are chosen from the interests of the Discipline of Pathology, which include: neurodegenerative disease; brain trauma; retinal disease; neural plasticity; tumour escape from the immune system; activation of suppressor cells; antigen-presenting cells; immunology of the skin; tumour biology; auto immunity; ultraviolet light and the immune system; microbial pathogenicity; bacterial colonisation mechanisms; gastrointestinal and respiratory infections; host immune responses to infection; plasmid evolution; antimicrobial resistance; and microbial population genetics. Students participate in a series of advanced tutorials.

Requisites: COREQ - CJA434
Staff: Assoc Prof SM Kirov, Dr GM Woods, Prof JC Vickers, Dr M Sherley
CJA510 - Graduate Diploma in Immunology & Microbiology

Special Note: For weighting, see individual units. The result awarded for this unit is an ungraded pass (UP).

Description: Master unit code for the diploma
Requisites: PREREQ - degree in medicine, veterinary science, science, pharmacy, agricultural science, applied science or equiv
Staff: Associate Professor GM Woods and other teaching staff as required from the School of Medicine
Teaching Pattern: lectures, tutorials, practicals, projects and seminars
Assessment: written exam, minor research report and seminar presentation
Required Texts: Determined at commencement of the course
Recommended Texts: determined at commencement of course
Offered in Courses: [ S4E ]

Unit Delivery Information:

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CJA516 - Cellular Immunology

Special Note: The result for this unit is a XX (result shown in another unit) the final result is awarded following completion of CJA517. The result awarded is an ungraded pass (UP).

Description: For a description of this unit, contact the Discipline of Pathology.
Requisites: PREREQ - degree in medicine, veterinary science, science, pharmacy, agricultural science, applied science or equiv PREREQ - CJA517
Staff: Dr GM Woods
Teaching Pattern: lectures, tutorials
Assessment: theory exam
Required Texts: will be discussed with Pathology staff
Offered in Courses: [ M6A ]

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CJA517 - Cellular Immunology

Special Note: The result awarded is an ungraded pass (UP).

Description: For a description of this unit, contact the Discipline of Pathology.
Requisites: PREREQ - degree in medicine, veterinary science, science, pharmacy, agricultural science, applied science or equiv COREQ - CJA516
Staff: Dr GM Woods
Teaching Pattern: lectures, tutorials
Assessment: theory exam
Required Texts: will be discussed with Pathology staff
Offered in Courses: [ M6A ]

Unit Delivery Information:

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CJA521 - Microbiology

Special Note: The result for this unit is a XX (result shown in another unit) the final result is awarded following completion of CJA522. The result awarded is an ungraded pass (UP).

Description: For a description of this unit, contact the Discipline of Pathology.
Requisites: PREREQ - degree in medicine, veterinary science, science, pharmacy, agricultural science, applied science or equiv COREQ - CJA522
Staff: Assoc Prof SM Kirov
Teaching Pattern: lectures, tutorials
Assessment: theory exam
Required Texts: will be discussed with Pathology staff
Recommended Texts: reading guidelines will be provided by staff.

Unit Delivery Information:
CJA522 - Microbiology

Special Note: The result awarded is an ungraded pass (UP).

Description: For a description of this unit, contact the Discipline of Pathology.

Requisites: PREREQ - degree in medicine, veterinary science, science, pharmacy, agricultural science, applied science or equiv

COREQ - CJA521

Staff: Assoc Prof SM Kirov

Teaching Pattern: lectures, tutorials

Assessment: theory exam

Required Texts: will be discussed with Pathology staff

Recommended Texts: reading guidelines will be provided by staff.

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CJA526 - Research Project

Special Note: The result for this unit is a XX (result shown in another unit) the final result is awarded following completion of CJA527. The result awarded is an ungraded pass (UP).

Description: For a description of this unit, contact the Discipline of Pathology.

Requisites: PREREQ - degree in medicine, veterinary science, science, pharmacy, agricultural science, applied science or equiv

COREQ - CJA527

Staff: Assoc. Prof. G.M. Woods, Assoc. Prof. S.M.Kirov

Teaching Pattern: research project

Assessment: research report

Required Texts: will be discussed with Pathology staff

Unit Delivery Information:

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CJA527 - Research Project

Special Note: The result awarded is an ungraded pass (UP).

Description: For a description of this unit, contact the Discipline of Pathology.

Requisites: PREREQ - degree in medicine, veterinary science, science, pharmacy, agricultural science, applied science or equiv

COREQ - CJA526

Staff: Assoc. Prof. G.M. Woods, Assoc. Prof. S.M.Kirov

Teaching Pattern: research project

Assessment: research report

Required Texts: will be discussed with Pathology staff

Unit Delivery Information:

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CJA531 - Research Project

Special Note: The result for this unit is a XX (result shown in another unit) the final result is awarded following completion of CJA527. The result awarded is an ungraded pass (UP).

Description: For a description of this unit, contact the Discipline of Pathology.

Requisites: PREREQ - degree in medicine, veterinary science, science, pharmacy, agricultural science, applied science or equiv

COREQ - CJA532

Staff: Assoc. Prof. G.M. Woods, Assoc. Prof. S.M.Kirov

Teaching Pattern: research project

Assessment: research report

Required Texts: will be discussed with Pathology staff

Unit Delivery Information:

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CJA532 - Research Project

Special Note: The result awarded is an ungraded pass (UP).

Description: For a description of this unit, contact the Discipline of Pathology.
**Units Coded C – Faculty of Health Science**

**Requisites:** COREQ - CJA531  PREREQ - degree in medicine, veterinary science, science, pharmacy, agricultural science, applied science or equiv  

**Staff:** Assoc. Prof. G.M. Woods, Assoc. Prof. S.M.Kirov  

**Teaching Pattern:** research project  

**Assessment:** research report  

**Required Texts:** will be discussed with Pathology staff  

**Unit Delivery Information:**

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**CKA320 - Surgery**

**Description:** Students are attached in small groups to different surgical units where they follow the unit activities in the wards, clinics and operating theatres. Clinical examination techniques, investigative procedures are taught through tutorials, group seminars, and bedside teaching. Topics, which include informed consent, ethics, pain control, drug- and alcohol-related surgical problems, are taught in the tutorials and based on illustrative surgical case studies.

**Requisites:** PREREQ - CAM300, CAM320  COREQ - CJA315, CJA325  

**Staff:** Assoc Prof SN Sinha, Mr F Kimble, Mr M Djeric (Coordinator), Professor P Stanton, Mr I Middleton, Mr D Cottier, Mr S Wilkinson, VMOs, radiological and surgical Registrars  

**Teaching Pattern:** Tutorial, teaching ward round, skills laboratory, and unscheduled teaching in the wards, operating theatres and Department of Emergency Medicine.  

**Assessment:**  
1. **Formative Assessment:** Students carry out one OSLER, one CAT and one case history during the block, and a 5 station OSCE at the end of the block.  
2. **Summative assessment:** Summative assessment in respect of the unit's content takes place in a combined form with Medicine and Clinical Specialties at the end of Semester 1 of fourth year, as follows:-  
   - Students are required to pass the case history, CAT and OSLER in their second block of year 4, and obtain a combined pass in the mid year 4 integrated MCQ and OSCE examination, and a pass in the OSCE component of that examination. Students achieving a borderline result on the OSLER will be offered another OSLER. In order to pass the OSCE, students will be required to pass at least 10 out of 12 stations. The result awarded for this unit is an ungraded pass (UP).  

**Recommended Texts:** contact the coordinators for details  

**Offered in Courses:** [ M3J ] [ M3B ] [ M4B ]

**Unit Delivery Information:**

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**CKA400 - Surgery**

**Description:** Students are attached in small groups to different surgical units where they follow the unit activities in the wards, clinics and operating theatres. Clinical examination techniques, investigative procedures are taught through tutorials, group seminars, and bedside teaching. Topics, which include informed consent, ethics, pain control, drug- and alcohol-related surgical problems, are taught in the tutorials and based on illustrative surgical case studies.

**Requisites:** PREREQ - CAM320  PREREQ - CAM300  

**Staff:** Assoc Prof SN Sinha, Assoc Prof F Kimble, Mr M Djeric, Mr I Middleton, Mr D Cottier, Mr S Wilkinson, VMOs, Registrars  

**Teaching Pattern:** Tutorial, teaching ward round, skills laboratory, and unscheduled teaching in the wards, operating theatres and Department of Emergency Medicine.  

**Assessment:**  
1. **Formative Assessment:** Students carry out one OSLER, one CAT and one case history during the block, and a 5 station OSCE at the end of the block.  
2. **Summative assessment:** Summative assessment in respect of the unit's content takes place in a combined form with Medicine and Clinical Specialties at the end of Semester 1 of fourth year, as follows:-  
   - Students are required to pass the case history, CAT and OSLER in their second block of year 4, and obtain a combined pass in the mid year 4 integrated MCQ and OSCE examination, and a pass in the OSCE component of that examination. Students achieving a borderline result on the OSLER will be offered another OSLER. In order to pass the OSCE, students will be required to pass at least 10 out of 12 stations. The result awarded for this unit is an ungraded pass (UP).  

**Recommended Texts:** Contact school  

**Offered in Courses:** [ M3J ] [ M3B ] [ M4B ]

**Unit Delivery Information:**

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**CMM300 - Medicine 3**

**Description:** This unit builds on Introduction to Clinical Studies (CAM300) and Neurosciences (CAM320) from Semester 1 and provides further teaching on history taking, physical examination and the diagnostic process. In addition there is an integrated teaching series (which will be continued through the first half of 4th year), integrated as far as possible with other clinical disciplines, in particular Pathology. Students are expected to develop sound clinical skills, including communication, counselling skills and competence in clinical diagnostic
problem-solving, in addition to acquiring a knowledge of common diseases. Students are introduced to the principles and methods of investigation and management of disease, including clinical pharmacology and therapeutics. Emphasis is increasingly placed on self-directed learning, with learning sessions providing complementary guidance. Specific aims of the unit are:

- Elicit an accurate history from a patient with medical problems in two systems.
- Perform a competent clinical examination of all major systems.
- Accurately elicit abnormal clinical findings.
- Utilise the diagnostic process to explain a patient's symptoms and signs.
- Develop an understanding of the application of Clinical Pharmacology.
- Increase your knowledge from the integrated teaching series and develop an understanding of its application in patient care.

**Requirements:**
- PREREQ - CAM300, CAM320
- COREQ - CJA315, CJA325

**Staff:** Dr R Young (Coordinator), members of the Discipline of Medicine and School of Pharmacy

**Teaching Pattern:** lectures, clinical presentations, 8-wk half-time clinical attachment including ward teaching, tutorials and case presentations

**Assessment:**

1. **Formative Assessment:** This will be carried out either during or at the end of the block.
   - OSLER (objective structured long examination record)
   - 1 Case History (medicine and surgery) and 4 Case Histories (Clinical Specialties - one each of chronic disease, mental health, child health, and obstetrics/gynaecology) - pro formas to be supplied to students
   - 1 CAT (critically appraised topic) - 1 written CAT in medicine and surgery, CAT presentations in Clin Specs
   - 1 mini OSCE (objective structured clinical examination)

2. **Summative Assessment:** Summative assessment will take place in a combined form with Medicine and Clinical Specialties at the end of Semester 1 in fourth year.

   The end of rotation assessment comprises:
   - integrated 12 station OSCE (60% weight)
   - integrated 100 item MCQ paper, largely EMQ in format (40% weight)

   Additionally, students will be required to submit the following at the end of their final block:
   - 1 OSLER
   - 1 Case History
   - 1 CAT

Students will be required to pass the case history, CAT and OSLER, and obtain a combined pass in the end of rotation assessment and a pass in the OSCE component. The mark will be an ungraded pass. Students achieving a borderline result on the OSLER will be offered another OSLER. In order to pass the OSCE, students will be required to pass at least 10 out of 12 stations. The result awarded for this unit is an ungraded pass (UP).

**Required Texts:** Edwards CRW et al, *Davidson's Principles and Practice of Medicine*, ISBN 0443059446 [p/b], 0443060002

**Recommended Texts:** Wilson JD, Braunwald E, et al (eds), *Harrison's Principles of Internal Medicine*, latest edn, ISBN 0070202923 (2-vol edn: bk 1), 0070202931 (bk 2); 0070202915 (1 vol edn)
Lloyd M & Bor R, *Communication skills for Medicine* ISBN 0443051682
Greenhalgh T, *How to read a paper. The basics of evidence based medicine* ISBN 0727915789

**Offered in Courses:** [ M3J ] [ M3B ] [ M4B ]

**Unit Delivery Information:**

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**CMM400 - Medicine 4**

**Description:** This unit builds on previous work in CAM300 and CMM300, involving students in clinical sessions on hospital wards and outpatients. Students further develop their clinical skills, building on core techniques of history taking and physical examination to include diagnostic processes and management strategies. The integrated teaching series started in semester 2 of the 3rd year is continued, helping students integrate their learning with other disciplines, particularly Pathology. A further series of tutorials in pharmacology is included. Specific aims of the unit are:

- Elicit an accurate history from a patient with medical problems in two systems.
- Perform a competent examination of all major systems.
Accurately elicit abnormal clinical findings.

* Utilise the diagnostic process to explain a patient's symptoms and signs.

* Develop an understanding of the application of Clinical Pharmacology.

* Increase your knowledge from the integrated lecture series and develop an understanding of its application in patient care.

**Requisites:** PREREQ - CMM300

**Staff:** Dr R Young (Coordinator), members of the Discipline of Medicine and the School of Pharmacy

**Teaching Pattern:** lectures/clinical demonstrations throughout sem, 8-wk half-time clinical attachment including ward teaching, tutorials and case presentations, and an exam wk

**Assessment:**

1. **Formative Assessment:** This will be carried out either during or at the end of the block.

   - OSLER (objective structured long examination record)
   - 1 Case History (medicine and surgery) and 4 Case Histories (Clinical Specialties - one each of chronic disease, mental health, child health, and obstetrics/gynaecology) - proformas to be supplied to students
   - 1 CAT (critically appraised topic) - 1 written CAT in medicine and surgery, CAT presentations in Clin Specs
   - 1 mini OSCE (objective structured clinical examination)

2. **Summative assessment:** Summative assessment will take place in a combined form with Surgery and Clinical Specialties at the end of Semester 1 in fourth year.

   The end of rotation assessment comprises:

   - integrated 12 station OSCE (60% weight)
   - integrated 100 item MCQ paper, largely EMQ in format (40% weight)

Additionally, students will be required to submit the following at the end of their final block:

- 1 OSLER
- 1 Case History
- 1 CAT

Students will be required to pass the case history, CAT and OSLER, and obtain a combined pass in the end of rotation assessment and a pass in the OSCE component. The mark will be an ungraded pass. Students achieving a borderline result on the OSCE will be offered another OSLER. In order to pass the OSCE, students will be required to pass at least 10 out of 12 stations. The result awarded for this unit is an ungraded pass (UP).

**Required Texts:** Edwards CRW et al, Davidson's Principles and Practice of Medicine, ISBN 0443059446 [p/b], 0443060002

Talley N & O'Connor S, Clinical Examination, ISBN 0864331029

**Recommended Texts:** Wilson JD, Braunwald E, et al (eds), Harrison's Principles of Internal Medicine, latest edn, ISBN 0070202923 (2-vol edn: bk 1), 0070202931 (bk 2); 0070202915 (1 vol edn)


Medical Research Council, UK, Aids to the Examination of the Peripheral Nervous System, ISBN 0702011657


Lloyd M & Bor R, Communication skills for Medicine ISBN 0443051682

Greenhalgh T, How to read a paper. The basics of evidence based medicineISBN 0727915789

Sackett DL, Evidence-Based Medicine: How to Practice and Teach, ISBN 0443062404

**Offered in Courses:** [ M3J ] [ M3B ] [ M4B ]

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**CMS420 - Biotechnology Honours in Medical Science FTA**

**Special Note:** On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CMS421 for full time student and CMS425 for part time students. Full time student enrol in CMS420 and CMS421. Part time students enrol in CMS422, CMS423, CMS424 and CMS425 concurrently over two years.

**Description:** Aims: (a) to provide a year's training in research, in order to give students a competitive edge in seeking employment in biomedical research laboratories; and (b) to provide students with the opportunity to plan, execute, interpret and analyse purposeful experiments, appropriate to their research project, and to communicate their results; and to investigate and present on two areas, unrelated to their own research topic, but representing important contemporary biomedical research in order to demonstrate their skills in providing a condensed account of these areas of research and in communicating their essential features in written and oral form. The unit tests abilities which were largely ignored in the undergraduate years, and fosters innovative thinking, careful planning and the ability to communicate ideas and findings clearly. Students who excel in Honours are well organised and intensely motivated. Research projects in this unit include the very wide range of techniques required for modern biomedical research from the biochemical or molecular level, through cell biology, to whole animal and human studies. Students considering this unit are advised to discuss with prospective supervisors their research areas and possible projects in detail before deciding on a research group for the year. The Discipline will provide specific details on assessment procedure and criteria used.

**Requisites:** COREQ - CMS421
CMS421 - Biotechnology Honours in Medical Science FTB

Special Note: On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CMS421 for full time student and CMS423 for part time students. Full time student enrol in CMS420 and CMS421. Part time students enrol in CMS422, CMS423, CMS424 and CMS425 concurrently over two years.

Description: Aims: (a) to provide a year's training in research, in order to give students a competitive edge in seeking employment in biomedical research laboratories; and (b) to provide students with the opportunity to plan, execute, interpret and analyse purposeful experiments, appropriate to their research project, and to communicate their results; and to investigate and present on two areas, unrelated to their own research topic, but representing important contemporary biomedical research in order to demonstrate their skills in providing a condensed account of these areas of research and in communicating their essential features in written and oral form. The unit tests abilities which were largely ignored in the undergraduate years, and fosters innovative thinking, careful planning and the ability to communicate ideas and findings clearly. Students who excel in Honours are well organised and intensely motivated. Research projects in this unit include the very wide range of techniques required for modern biomedical research from the biochemical or molecular level, through cell biology, to whole animal and human studies. Students considering this unit are advised to discuss with prospective supervisors their research areas and possible projects in detail before deciding on a research group for the year. The Discipline will provide specific details on assessment procedure and criteria used.

Requisites: COREQ - CMS420

Staff: Dr SM Richards (Coordinator), and staff of Anatomy & Physiology, and Biochemistry

Assessment: The year's performance is assessed from the research topic (thesis, 60%; project seminar, 10%), and 2 assignments (10% for the essay and 10% for the reading topic seminar presentation), supervisor's assessment (10%). There are no written exams or lectures, but students are expected to attend Medical Sciences seminars and their own research group meetings.

Offered in Courses: [ S4V ]

Unit Delivery Information:

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CMS422 - Biotechnology Honours in Medical Science PTA

Special Note: On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CMS421 for full time student and CMS423 for part time students. Full time student enrol in CMS420 and CMS421. Part time students enrol in CMS422, CMS423, CMS424 and CMS425 concurrently over two years.

Description: Aims: (a) to provide a year's training in research, in order to give students a competitive edge in seeking employment in biomedical research laboratories; and (b) to provide students with the opportunity to plan, execute, interpret and analyse purposeful experiments, appropriate to their research project, and to communicate their results; and to investigate and present on two areas, unrelated to their own research topic, but representing important contemporary biomedical research in order to demonstrate their skills in providing a condensed account of these areas of research and in communicating their essential features in written and oral form. The unit tests abilities which were largely ignored in the undergraduate years, and fosters innovative thinking, careful planning and the ability to communicate ideas and findings clearly. Students who excel in Honours are well organised and intensely motivated. Research projects in this unit include the very wide range of techniques required for modern biomedical research from the biochemical or molecular level, through cell biology, to whole animal and human studies. Students considering this unit are advised to discuss with prospective supervisors their research areas and possible projects in detail before deciding on a research group for the year. The Discipline will provide specific details on assessment procedure and criteria used.

Requisites: COREQ - CMS423

Staff: Dr SM Richards (Coordinator), and staff of Anatomy & Physiology, and Biochemistry

Assessment: The year's performance is assessed from the research topic (thesis, 60%; project seminar, 10%), and 2 assignments (10% for the essay and 10% for the reading topic seminar presentation), supervisor's assessment (10%). There are no written exams or lectures, but students are expected to attend Medical Sciences seminars and their own research group meetings.

Offered in Courses: [ S4V ]

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CMS423 - Biotechnology Honours in Medical Science PTB

Special Note: On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CMS421 for full time student and CMS423 for part time students. Full time student enrol in CMS420 and CMS421. Part time students enrol in CMS422, CMS423, CMS424 and CMS425 concurrently over two years.

Description: Aims: (a) to provide a year's training in research, in order to give students a competitive edge in seeking employment in biomedical research laboratories; and (b) to provide students with the opportunity to plan, execute, interpret and analyse purposeful experiments, appropriate to their research project, and to communicate their results; and to investigate and present on two areas, unrelated to
their own research topic, but representing important contemporary biomedical research in order to demonstrate their skills in providing a condensed account of these areas of research and in communicating their essential features in written and oral form. The unit tests abilities which were largely ignored in the undergraduate years, and fosters innovative thinking, careful planning and the ability to communicate ideas and findings clearly. Students who excel in Honours are well organised and intensely motivated. Research projects in this unit include which were largely ignored in the undergraduate years, and fosters innovative thinking, careful planning and the ability to communicate ideas and findings clearly. Students who excel in Honours are well organised and intensely motivated. Research projects in this unit include which were largely ignored in the undergraduate years, and fosters innovative thinking, careful planning and the ability to communicate ideas and findings clearly. Students who excel in Honours are well organised and intensely motivated. Research projects in this unit include which were largely ignored in the undergraduate years, and fosters innovative thinking, careful planning and the ability to communicate ideas and findings clearly. Students who excel in Honours are well organised and intensely motivated. Research projects in this unit include which were largely ignored in the undergraduate years, and fosters innovative thinking, careful planning and the ability to communicate ideas and findings clearly. Students who excel in Honours are well organised and intensely motivated. Research projects in this unit include which were largely ignored in the undergraduate years, and fosters innovative thinking, careful planning and the ability to communicate ideas and findings clearly. Students who excel in Honours are well organised and intensely motivated. Research projects in this unit include which were largely ignored in the undergraduate years, and fosters innovative thinking, careful planning and the ability to communicate ideas and findings clearly. Students who excel in Honours are well organised and intensely motivated. Research projects in this unit include which were largely ignored in the undergraduate years, and fosters innovative thinking, careful planning and the ability to communicate ideas and findings clearly. Students who excel in Honours are well organised and intensely motivated. Research projects in this unit include which were largely ignored in the undergraduate years, and fosters innovative thinking, careful planning and the ability to communicate ideas and findings clearly. Students who excel in Honours are well organised and intensely motivated. Research projects in this unit include which were largely ignored in the undergraduate years, and fosters innovative thinking, careful planning and the ability to communicate ideas and findings clearly. Students who excel in Honours are well organised and intensely motivated. Research projects in this unit include which were largely ignored in the undergraduate years, and fosters innovative thinking, careful planning and the ability to communicate ideas and findings clearly. Students who excel in Honours are well organised and intensely motivated. Research projects in this unit include which were largely ignored in the undergraduate years, and fosters innovative thinking, careful planning and the ability to communicate ideas and findings clearly.

**Requisites:** COREQ - CMS422

**Staff:** Dr SM Richards (Coordinator), and staff of Anatomy & Physiology, and Biochemistry

**Assessment:** The year's performance is assessed from the research topic (thesis, 60%; project seminar, 10%), and 2 assignments (10% for the essay and 10% for the reading topic seminar presentation), supervisor's assessment (10%). There are no written exams or lectures, but students are expected to attend Medical Sciences seminars and their own research group meetings.

**Offered in Courses:** [ S4V ]

**Unit Delivery Information:**

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<th>Unit</th>
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**CMS424 - Biotechnology Honours in Medical Science PTC**

**Special Note:** On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CMS421 for full time student and CMS425 for part time students. Full time student enrol in CMS420 and CMS421. Part time students enrol in CMS422, CMS423, CMS424 and CMS425 concurrently over two years.

**Description:** Aims: (a) to provide a year's training in research, in order to give students a competitive edge in seeking employment in biomedical research laboratories; and (b) to provide students with the opportunity to plan, execute, interpret and analyse purposeful experiments, appropriate to their research project, and to communicate their results; and to investigate and present on two areas, unrelated to their own research topic, but representing important contemporary biomedical research in order to demonstrate their skills in providing a condensed account of these areas of research and in communicating their essential features in written and oral form. The unit tests abilities which were largely ignored in the undergraduate years, and fosters innovative thinking, careful planning and the ability to communicate ideas and findings clearly. Students who excel in Honours are well organised and intensely motivated. Research projects in this unit include the very wide range of techniques required for modern biomedical research from the biochemical or molecular level, through cell biology, to whole animal and human studies. Students considering this unit are advised to discuss with prospective supervisors their research areas and possible projects in detail before deciding on a research group for the year. The Discipline will provide specific details on assessment procedure and criteria used.

**Requisites:** COREQ - CMS425

**Staff:** Dr SM Richards (Coordinator), and staff of Anatomy & Physiology, and Biochemistry

**Assessment:** The year's performance is assessed from the research topic (thesis, 60%; project seminar, 10%), and 2 assignments (10% for the essay and 10% for the reading topic seminar presentation), supervisor's assessment (10%). There are no written exams or lectures, but students are expected to attend Medical Sciences seminars and their own research group meetings.

**Offered in Courses:** [ S4V ]

**Unit Delivery Information:**

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**CMS425 - Biotechnology Honours in Medical Science PTD**

**Special Note:** On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CMS421 for full time student and CMS425 for part time students. Full time student enrol in CMS420 and CMS421. Part time students enrol in CMS422, CMS423, CMS424 and CMS425 concurrently over two years.

**Description:** Aims: (a) to provide a year's training in research, in order to give students a competitive edge in seeking employment in biomedical research laboratories; and (b) to provide students with the opportunity to plan, execute, interpret and analyse purposeful experiments, appropriate to their research project, and to communicate their results; and to investigate and present on two areas, unrelated to their own research topic, but representing important contemporary biomedical research in order to demonstrate their skills in providing a condensed account of these areas of research and in communicating their essential features in written and oral form. The unit tests abilities which were largely ignored in the undergraduate years, and fosters innovative thinking, careful planning and the ability to communicate ideas and findings clearly. Students who excel in Honours are well organised and intensely motivated. Research projects in this unit include the very wide range of techniques required for modern biomedical research from the biochemical or molecular level, through cell biology, to whole animal and human studies. Students considering this unit are advised to discuss with prospective supervisors their research areas and possible projects in detail before deciding on a research group for the year. The Discipline will provide specific details on assessment procedure and criteria used.

**Requisites:** COREQ - CMS424

**Staff:** Dr SM Richards (Coordinator), and staff of Anatomy & Physiology, and Biochemistry

**Assessment:** The year's performance is assessed from the research topic (thesis, 60%; project seminar, 10%), and 2 assignments (10% for the essay and 10% for the reading topic seminar presentation), supervisor's assessment (10%). There are no written exams or lectures, but students are expected to attend Medical Sciences seminars and their own research group meetings.

**Offered in Courses:** [ S4V ]

**Unit Delivery Information:**

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CNA105 - Narrative Understandings in Nursing

**Description:** The unit aims to provide students with a beginning insight into the discipline of nursing by exploring its historical and contemporary contexts. Teaching and learning strategies employ a diverse range of media to examine the cultures, politics, and diversity of nursing over time. Issues that are important in contemporary nursing will be discussed using a critical, narrative approach. These understandings will facilitate the students' entry into the practice world of nursing with knowledge of the issues, problems, and rewards nurses face.

**Staff:** Ms J Sondermeyer, (Coordinator)

**Teaching Pattern:** 1-hr lecture, 1-hr tutorial weekly (13 wks);

**Assessment:** In tutorial assessment and one written paper (1500 words)

**Required Texts:** Reader

**Offered in Courses:** [H3D]

**Unit Delivery Information:**

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CNA126 - Health Care Where People Live and Work

**Description:** Draws on the World Health Organisation's Primary Health Care approach as outlined in the Alma Ata Declaration (1978) and also examines contemporary public health developments. The unit title *Health Care Where People Live and Work* is part of the WHO definition of Primary Health Care and is explored literally and broadly. Our own health experiences and behaviour provide the basis for developing our understanding of health and health care in our communities. The unit provides foundation public health concepts for integration into professional practice.

**Staff:** Mr G Crack

**Teaching Pattern:** 2-hr lecture, 1-hr tutorial weekly (13 wks)

**Assessment:** 1,000-word assignment (40%), 2,000-word assignment (60%)

**Required Texts:**


**Offered in Courses:** [H3D] [S3I]

**Unit Delivery Information:**

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CNA127 - Health and Physical Assessment

**Special Note:** Students undertake up to 10 days clinical practice in various health care agencies around the State

**Description:** Health assessment is regarded as a core component of nursing practice and a holistic approach incorporating physical assessment will be developed. Areas covered include; a systems approach to full physical assessment; universal assessment process; rapid primary assessment; initial assessment; focused assessments. Opportunities for skill development and practice in assessment will be provided in a supportive environment.

**Staff:** Mr G Crack

**Teaching Pattern:** 1-hr lecture, 3-hr workshop, 2-hr practicum weekly

**Assessment:** 2-hr multiple choice exam (50%), practical assessment skills exam (20%), complete health assessment (30%), successful completion of 10 days clinical practice (satisfactory/unsatisfactory)

**Required Texts:**

**Offered in Courses:** [H3D]

**Unit Delivery Information:**

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CNA128 - Understanding Clinical Communication

**Description:** Consists of four modules: Module 1 introduces students to the importance of incorporating a psychological approach to Nursing; Module 2 deals with some important dilemmas in Nursing such as 'mind over matter' issues; Module 3 explores the challenge of being ill and the trajectories of adjustments; Module 4 examines the business of nursing communication and negotiation and encourages and assists students to appropriately and professionally explain the therapeutics of care to patients.

**Staff:** Prof P Salmon (Uni of Liverpool), Prof G Farrell, Ms D McCann

**Teaching Pattern:** online via WebCT Vista

**Assessment:** Written assessment items linked to course modules

**Required Texts:**

**Offered in Courses:** [H3D]
CNA205 - Research And Evidence-Based Practice in Nursing

Description: This unit introduces students to the importance of research in nursing practice and the relationship between evidence-based practice (EBP) and improved health outcomes. It enables students to understand the steps of EBP and develop an understanding of the different types of evidence, particularly research that may be used to answer clinical nursing questions. Students will develop skills in evaluating and critically appraising quantitative and qualitative research and explore the role of nursing staff in the ethical conduct of healthcare research.

Staff: Ms D McCann (unit coordinator)

Teaching Pattern: 1-hr lecture, (10 wks), 1-hr tutorial (10 weeks)

Assessment: One written assignment and one 2-hr exams

Required Texts: Courtney M, Evidence for Nursing Practice, Elsevier Australia, 2005

Offered in Courses: [ H3D ]

Unit Delivery Information:

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CNA215 - Supportive Care in Hospital and Community Settings 1

Description: This unit builds on studies undertaken in year one of the Bachelor of Nursing and is designed to develop nursing practice, knowledge and skills. Students will explore health issues associated with episodic and chronic illness while integrating a critical thinking approach. The experiential learning component will encourage students to draw upon their developing knowledge of a wide range of disciplines in the provision of nursing care.

Requisites: PREREQ - CNA127

Staff: Ms A Marlow (unit coordinator), Ms A Reilly, Mr M Zasadny

Teaching Pattern: 2x1-hr lectures, 3-hr clinical laboratory session per week (10 wks), 3 wks clinical practice in either hospital or community settings; students will be allocated to clinical placements based on quotas and consultation with health care agencies for each region. Students are expected to travel and study where the clinical places are available.

Assessment: Medication management theory test (30%) (this includes a drug calculation section where students must achieve 100% in order to undertake 3 wks clinical placement), skills assessment theory paper (30%), episodes of practice (40%), performance in practice (satisfactory/unsatisfactory)


University Department of Rural Health, Department of Health and Human Services and Tasmanian School of Nursing, 2001, Medication Management for Registered Nurses, Tasmanian School of Nursing, Bachelor of Nursing Education, (CD ROM), University of Tasmania, Launceston.

Recommended Texts: Brown, D. & Edwards, H. Lewis's Medical Surgical Nursing, Mosby, Sydney

Offered in Courses: [ H3D ]

Unit Delivery Information:

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CNA226 - Supportive Care in Hospital and Community Settings 2

Description: This unit introduces the students to the exploration of health issues associated with chronic and episodic illness. It builds on studies undertaken in year one of the Bachelor of Nursing, by further developing knowledge and skills. Experiential and case-based teaching and learning strategies aim to advance students critical thinking and clinical decision making capabilities.

Requisites: PREREQ - CNA127

Staff: Ms A Marlow (unit coordinator), Ms A Reilly, Mr M Zasadny

Teaching Pattern: 1-hr lecture, 2-hr clinical laboratory session per week (10 wks), 3 wks clinical practice in either hospital or community settings; students will be allocated to clinical placements based on quotas and consultation with health care agencies for each region. Students are expected to travel and study where the clinical places are available.

Assessment: One medication assignment (40%), clinical inquiry (60%), performance in practice (satisfactory/unsatisfactory)


Brown, D. & Edwards, H., Lewis's Medical Surgical Nursing, Mosby, Sydney


University Department of Rural Health, Department of Health and Human Services and Tasmanian School of Nursing, 2001, Medication Management for Registered Nurses, Tasmanian School of Nursing, Bachelor of Nursing Education, (CD ROM), University of Tasmania, Launceston.

CNA245 - Child and Adolescent Health

Special Note: Enrolment in M3H & S3I Subject to numbers

Description: This unit explores a broad range of health related issues about children and adolescents within a health promotion framework. The unit covers an introduction to the multi-disciplinary field of child and adolescent health care. The context in which children grow and develop is explored, as well as common health problems that they may experience.

Staff: Ms K Walkem (Coordinator)

Teaching Pattern: face-to-face tutorials

Assessment: Two assignments to a total of 3,000 words

Required Texts: Unit Reader from Uni bookshop

Offered in Courses: [ H3D ] [ S3I ]

Unit Delivery Information:

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CNA246 - Perspectives on Ageing

Description: Seeks to problematise the field of aged care and to promote the students' independence in learning. The unit consists of two modules which develop: understanding of the lived experiences of aged persons who are able to live independently or with some community support, through conversations, stories and literature; an interest in and understanding of the issues surrounding the health and well-being of the aged in Australia; and, critical insights into contemporary research and practice, and policy development in aged care.

Staff: Dr A Robinson (Coordinator)

Teaching Pattern: 2-hr lecture, 1-hr tutorial

Assessment: 2,500-word essay (60%) and exam (40%)


Offered in Courses: [ H3D ] [ M3H ] [ R3A ] [ S3I ]

Unit Delivery Information:

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CNA308 - Legal and Ethical Issues in Health Care

Special Note: This unit may also be offered as a summer school to selected students

Description: Explores legal issues and bioethics in health care. Contemporary areas of the law and bioethics most relevant to health care are examined. Students are encouraged to engage critically with related questions, issues and concerns that create tensions in the provision of health care. This unit uses advanced information and communication technologies to ensure students interactive engagements with the teaching material, their lecturers and other students. Use of this information and communication technology will prepare the student to function in an increasingly technology-dependent health care industry.

Staff: Mr L Smith (Nursing), Dr K Atkins (Philosophy)

Teaching Pattern: This unit is taught online (students receive a learning package that uses the internet and multi-media resources)

Assessment: Online tutorial work and written submission


Offered in Courses: [ H3D ] [ M3H ]

Unit Delivery Information:

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CNA309 - Professional Issues in Nursing Practice

Special Note: This unit may also be offered as a summer school to selected students

Description: Focuses on exploring contemporary issues in health care, the law and nursing. Students are assisted to engage critically with related questions, issues and concerns that create tensions in nursing practice. Consideration is given to the social and political contexts of health care, and students are encouraged to incorporate a developing critique of professionalisation processes. Student experiences in clinical practice are examined to explore the implications and challenges of the law to the profession of nursing

Staff: Mr L Smith (Coordinator)

Teaching Pattern: This unit is taught online (students receive a learning package that uses the internet )

Assessment: online tutorial work and written submission


Offered in Courses: [ H3D ]
### Unit Delivery Information:

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### CNA315 - Acute Care Nursing

**Special Note:** Students are required to be available five days a week, including early mornings and evenings, to undertake clinical practice in hospital settings. This unit may be available interstate and overseas; and may be offered as a summer school to selected students.

**Description:** Broadly, the unit is designed to assist students to develop the knowledge and skills necessary to care for patients in an acute care setting. CNA315 is a practical based unit and students will be working in a variety of acute care contexts in health care settings statewide. They will explore the theoretical understandings of the pathophysiology of disease, pharmacology, nursing therapeutics, assessment and management as it relates to the patients’ illness and how these influence diverse approaches to nursing care. Students will be assessed in practice according to specific competencies for Registered Nurses of the Australian Nursing & Midwifery Council (ANMC).

**Requisites:** PREREQ - CNA215, CNA226, CXA285, CXA286, CXA284

**Staff:** Ms A Reilly (Coordinator), Ms J Sondermeyer, Ms J Barnard, Ms J Stewart.

**Teaching Pattern:** (quotas) --- 312 hours of clinical practice, 3 hour laboratory/workshop.

**Assessment:** Portfolio of evidence (graded assessment of competence); Oral exam (40%), 3000 word essay (60%).

**Required Texts:**
- Brown, D. & Edwards, H. *Lewis's Medical Surgical Nursing*, Mosby, Sydney
- University Department of Rural Health, Department of Health and Human Services and Tasmanian School of Nursing, 2001, *Medication Management for Registered Nurses*, Tasmanian School of Nursing, Bachelor of Nursing Education, (CD ROM), University of Tasmanian, Launceston.

**Recommended Texts:**
- Corwin E.J 1996 *Handbook of Pathophysiology* (2nd edn). Lippincott, USA

**Offered in Courses:** [ H3D ]

### Unit Delivery Information:

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### CNA316 - Community and Mental Health Practice

**Special Note:** students are required to be available 5 days a week, including early mornings and evenings, to attend clinical practice.

**Description:** This unit takes a primary health care and health promotion approach to studying nursing practice in various community and mental health care settings. The unit provides an opportunity for students to develop an understanding of community based health issues, mental health issues and an appreciation of the particular needs of people whose lives are affected by "mental illness". The unit focuses on the role of nurses in community and mental health settings and the applicability of the skills gained in these areas of practice to all others. The unit comprises two practice rotations (Community-Based Health Nursing and Mental Health Nursing), giving students comprehensive experience and enabling them to gain appropriate knowledge, skills and beginning level competence in accordance with the full range of Australian Nursing and Midwifery Council (ANMC) competencies.

**Staff:** Ms L Venter (Coordinator), Ms H Noble, Ms J Spencer, Ms R Lamb

**Teaching Pattern:** Week one introductory lectures/tutorials followed by 3 hours per week lecture/tutorial

**Assessment:** Health promotion presentation and report (50%), mental health test (50%), performance in practice (Satisfactory/Unsatisfactory)

**Required Texts:** Reader for Community Health (available from Uniprint)

**Recommended Texts:**

**Offered in Courses:** [ H3D ]

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### CNA406 - Nursing Inquiry in Practice A

**Special Note:** On completion of CNA406 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CNA407. Students are required to enrol concurrently in CNA406 and CNA407.

**Description:** Provides advanced professional study, the focus of which is a research driven, in-depth study of a field of nursing practice. The
The experiential curriculum draws on scientific, interpretative and critical theoretical positions which are the subject of a series of seminars, tutorials and other teaching and learning strategies which enable students to explore their practice.

**Requisites:** COREQ - CNA407 PREREQ - grade point average of credit or above in 2nd and 3rd year of BN or equiv

**Staff:** Dr A Robinson (Coordinator), Dr D Fasset, Prof G Farrell, Ms J Sondermeyer, Mr L Smith, Dr J Sankey, Dr S Brennan, Ms C Handley, Ms L Venter, Mr G Crack, Ms J Spencer, Ms D McCann, Ms A Marlow, Ms J Stewart

**Teaching Pattern:** comprising clinical practicum of 196 hrs minimum, and 3 hrs seminars/tutorial weekly (sem 1 and sem 2 combined)

**Assessment:** 6,000-word paper

**Offered in Courses:** [H4A]

**Unit Delivery Information:**

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**CNA407 - Nursing Inquiry in Practice B**

**Special Note:** On completion of CNA406 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CNA407. Students are required to enrol concurrently in CNA406 and CNA407.

**Description:** Provides advanced professional study, the focus of which is a research driven, in-depth study of a field of nursing practice. The experiential curriculum draws on scientific, interpretative and critical theoretical positions which are the subject of a series of seminars, tutorials and other teaching and learning strategies which enable students to explore their practice.

**Requisites:** PREREQ - grade point average of credit or above in 2nd and 3rd year of BN or equiv COREQ - CNA406

**Staff:** Dr A Robinson (Coordinator), Dr D Fasset, Prof G Farrell, Ms J Sondermeyer, Mr L Smith, Dr J Sankey, Dr S Brennan, Ms C Handley, Ms L Venter, Mr G Crack, Ms J Spencer, Ms D McCann, Ms A Marlow, Ms J Stewart

**Teaching Pattern:** comprising clinical practicum of 196 hrs minimum, and 3 hrs seminars/tutorial weekly (sem 1 and sem 2 combined)

**Assessment:** 6,000-word paper

**Offered in Courses:** [H4A]

**Unit Delivery Information:**

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**CNA436 - Research Seminars and Project A**

**Special Note:** On completion of CNA436 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CNA437. Students are required to enrol concurrently in CNA436 and CNA437.

**Description:** Provides students with research training relevant to nursing, and prepares them for a higher nursing degree, by research. Students conduct research into a field of nursing practice which is informed and supported by a series of collaborative seminars which provide them with a forum to discuss and judge their research critically. The seminars consider methods, research design, data collection, analysis, interpretation and publication.

**Requisites:** PREREQ - grade point average of credit or above in 2nd and 3rd year of BN or equiv PREREQ - CNA437

**Staff:** Dr A Robinson (Coordinator), Dr D Fasset, Prof G Farrell, Dr C Spratt, Ms J Sondermeyer, Mr L Smith, Dr J Sankey, Dr S Brennan, Ms L Venter, Ms J Spencer, Mr G Crack, Ms D McCann, Ms A Marlow, Ms J Stewart, Ms C Handley

**Teaching Pattern:** 3 hrs tutorials weekly

**Assessment:** 15,000-18,000-word research thesis and an oral defence of this research thesis (100%)

**Recommended Texts:** Grbich C, *Qualitative Research in Health: An Introduction*, Allen & Unwin, NSW, 1999


**Offered in Courses:** [H4A]

**Unit Delivery Information:**

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**CNA437 - Research Seminars and Project B**

**Special Note:** On completion of CNA436 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CNA437. Students are required to enrol concurrently in CNA436 and CNA437.

**Description:** Provides students with research training relevant to nursing, and prepares them for a higher nursing degree, by research. Students conduct research into a field of nursing practice which is informed and supported by a series of collaborative seminars which provide them with a forum to discuss and judge their research critically. The seminars consider methods, research design, data collection, analysis, interpretation and publication.

**Requisites:** PREREQ - grade point average of credit or above in 2nd and 3rd year of BN or equiv PREREQ - CNA436

**Staff:** Dr A Robinson (Coordinator), Dr D Fasset, Prof G Farrell, Dr C Spratt, Ms J Sondermeyer, Mr L Smith, Dr J Sankey, Dr S Brennan, Ms L Venter, Ms J Spencer, Mr G Crack, Ms D McCann, Ms A Marlow, Ms J Stewart, Ms C Handley

**Teaching Pattern:** 3 hrs tutorials weekly

**Assessment:** 15,000-18,000-word research thesis and an oral defence of this research thesis (100%)

**Recommended Texts:** Grbich C, *Qualitative Research in Health: An Introduction*, Allen & Unwin, NSW, 1999


**Offered in Courses:** [H4A]

**Unit Delivery Information:**
CNA701 - Research and Project Management in Clinical Nursing

**Special Note:** Rotational unit - offered every 2 years, statewide to health professionals

**Description:** This unit provides students with the foundational knowledge required to appreciate and implement practical approaches to clinical research and project management. Students will discuss and debate various issues associated with research in their clinical area and increase their knowledge base in relation to the practice of research and project management.

**Staff:** Dr S Brennan (Course Coordinator)

**Teaching Pattern:** 6 full-day study days

**Assessment:** A combination of papers, projects and plans (equivalent of 6000-8000 words)

**Recommended Texts:**

**Offered in Courses:** [ H6F ] [ H7F ]

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CNA703 - Population Health

**Special Note:** Rotational unit - This unit is available subject to student numbers and resources

**Description:** Introduces students to basic epidemiology and to a population-based approach to health issues, particularly in rural and regional contexts. It equips students to gather, analyse and apply population data at a community level, to undertake community consultation, and to design and evaluate population-based health interventions. The unit utilises basic research tools and data analysis techniques. Topics covered include causation and risk, infectious disease control, injury control, health promotion, and harm minimisation.

**Staff:** Dr S Brennan (Course Coordinator)

**Teaching Pattern:** study days, regional tutorials/workshops, video-conferencing

**Assessment:** A range of assessment to the equivalent of 6000-8000 words.

**Required Texts:**
- tba

**Recommended Texts:**
- tba

**Offered in Courses:** [ H6F ] [ H7F ]

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CNA704 - Contemporary Issues in Aged Care (Unit not offered in 2006)

**Special Note:** Not available until 2007

**Description:** Focuses on contemporary issues and debates specifically related to service delivery in the aged care sector. The impacts of policy development on the delivery of professional services to older people are studied in detail, as are the theory and practice of organisational development in aged care service delivery. The unit has a particular focus on developing a critical perspective on change in aged care with respect to: demographic projections and the implications for service delivery; quality assurance, accreditation and evidence based practice in aged care; funding models and their impact on practice, and; issues in the coordination of care for elderly people.

**Staff:** Dr A Robinson (Coordinator)

**Teaching Pattern:** lectures regional tutorials, via webct through the WWW

**Assessment:** 2 x 3,000-word papers

**Required Texts:** tba

**Recommended Texts:** tba

**Offered in Courses:** [ H6F ] [ H7F ]

CNA707 - Professional Issues in Midwifery Practice

**Description:** This unit fosters the development of an understanding of the role, responsibilities and scope of practice of a midwife in contemporary Australia. This unit will examine a broad range of contemporary issues and trends that impact on women within the context of childbearing and midwifery practice. It will introduce students to the historical development of midwifery knowledge and the influence of different philosophies in shaping contemporary midwifery knowledge. Students will debate the merits of differing models of midwifery care. The political forces that shape midwifery practice are examined and the midwifery image portrayed to the community is explored in the context of society's expectations of the professional midwife.

**Staff:** Dr J Sankey (Coordinator)

**Teaching Pattern:** lectures, small group work, tutorials and self directed learning

**Assessment:** 1,500-word assignment (40%), 2,000-word assignment (60%)

**Required Texts:** Readings

**Offered in Courses:** [ H6C ]

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CNA716 - Advanced Geriatric Assessment (Unit not offered in 2006)

Special Note: Not available until 2007

Description: For details of this course please contact the School of Nursing.

Offered in Courses:

CNA725 - Healthy Ageing (Unit not offered in 2006)

Special Note: Not available until 2007

Description: Explores ageing as a normal process with a focus on developing student’s understanding of the process of ageing and their skills in the health assessment of elderly people. The intent is to enable students to differentiate between changes associated with the ageing process and those associated with pathology when assessing clients and managing nursing care across a variety of contexts. An introductory consideration of major psychological and patho-physiological changes potentially encountered by ageing individuals will be undertaken by way of contrasting them to normal ageing. Topics addressed will include: life stages; ageing and physical function; ageing and cognition; sexuality; sensory impairment; sleep, and; continence. The unit will also involve a clinical practicum with a focus on further developing students assessment skills and understanding of the ageing process.

Staff: Dr A Robinson (Coordinator)

Teaching Pattern: study days; regional tutorials; video-conferencing

Assessment: clinical exam, 3,000-word paper, 3,000-word case study

Required Texts: tba

Recommended Texts: tba

Offered in Courses: [ H6F ] [ H7F ]

CNA726 - Health Assessment and Ageing (Unit not offered in 2006)

Special Note: Not available until 2007

Description: Builds on CNA725 Healthy Ageing. The focus is on students developing their assessment skills and clinical practice in the context of a consideration of issues related to key pathophysiological and psychopathological alterations in the elderly people’s health status. In the course of the unit case studies of elderly people will be employed to examine issues such as: challenging behaviours; depression; communication; nutrition incontinence; mobility; skin integrity; pain; chronic & acute illness; polypharmacy. Concurrent participation in a clinical practicum will inform students’ exploration of these issues and the development of their assessment skills.

Requisites: PREREQ - CNA725

Staff: Dr A Robinson (Coordinator)

Teaching Pattern: study days; regional tutorials; video-conferencing

Assessment: assignment, case study

Required Texts: tba

Recommended Texts: tba

Offered in Courses: [ H6F ] [ H7F ]

CNA727 - Immunisation Education for Registered Nurses

Special Note: Offered to GradDipN students, available as a non-award unit to registered nurses; the unit is offered statewide. This unit is available subject to student numbers and resources.

Description: Provides registered nurses with the knowledge, skills, attitudes, and practical experience required to practice as authorised nurse immunisers. The unit content addresses the theoretical foundations of immunisation, and the clinical theory and practice of immunisation.

Staff: Ms K. Walkem (Coordinator) and a teaching team from the Public Health division of the DHHS

Teaching Pattern: flexible mode, including lecture notes, regional tutorial, online tutorials, seminar day, supporting material and supervised clinical experience.

Assessment: theory and practice: formal exam and clinical supervision, and written activities


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Offered in Courses: [ H6F ]

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CNA728 - Food, Culture and Health

Special Note: This unit is offered to GradDipN students. It is also available as a non-award unit to other students. This unit is available subject to student numbers and resources.

Description: Consists of four individual modules that together provide students with the opportunity to develop an understanding of the connections between food, culture and health within a global perspective. The unit provides a broad overview of many of the current debates occurring in an increasingly nutrition conscious world. The unit places changes to health care practice, in relation to infant feeding, young child and family diet, within a cultural and historical context. Students are encouraged to understand food related health issues as the result of the interplay between complex social, cultural, political and historical factors. At the completion of the unit students will have developed an insight into the food crisis in the developing world and its effects upon maternal and child health. As well students will have an increased awareness of the social and cultural factors which have historically impacted upon infant and young child diets in Australia and, therefore, child health nursing, paediatric nursing and midwifery practice.
CNA728 - Responding to Domestic Violence

Special Note: This unit is subject to student numbers and resources.

Description: Consists of four individual modules. Module One provides students with introductory information in relation to definitions, scope, and context. Module two focuses on issues surrounding the recognition of domestic violence. Module three examines the role of health care professionals in responding to domestic violence. Module four provides a framework for safe work practice. This unit will assist health professionals to identify and respond appropriately to family violence situations.

Staff: Dr S Brennan, Ms K Walkem

Teaching Pattern: Comprehensive self-directed learning package provided at the beginning of semester 2 and 2 x 2-day workshops.

Assessment: A range of assessment items equivalent to 5000 words

Required Texts: Readings

Offered in Courses: [ H6F ]

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CNA730 - Promoting Health in Child & Family Health: Theoretical Perspectives (Unit not offered in 2006)

Special Note: Rotational unit

Description: Encourages students to critically explore the historical and sociological development of the family in Australia as well as the development of nursing child health services. Examines some of the philosophies which have underpinned changes in health policies directed towards families and analyses the many different meanings 'family' holds for present day Australians.

Staff: Dr S Brennan, Ms K Walkem

Assessment:

Required Texts:

Offered in Courses: [ H6F ]

Unit Delivery Information:

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CNA731 - Approaches to Child Development in Child & Family Health: Theoretical Perspectives (Unit not offered in 2006)

Special Note: Rotational unit. This unit is offered to nursing students as part of the Graduate Diploma of Nursing. It may be offered to other students as a non award unit.

Description: Provides a theoretical understanding of child and adolescent growth and development. Psycho-analytic, behavioural, humanist and cognitive theories are explored and critiqued. As well the theoretical base of surveillance and screening practices is explored.

Staff: Ms S Brennan

Assessment: written work and presentations totalling 5,000 words

Offered in Courses: [ H6F ]

CNA732 - Promoting Health in Child & Family Health: Practice Perspectives (Unit not offered in 2006)

Special Note: Rotational unit.

Description: Focuses on the preparation of beginning practitioners in family and child nursing. Knowledge and skills in communication techniques used by nurses in this area are developed. Breastfeeding, artificial feeding, infant, toddler, and family diets are examined and related competencies met.

Staff: Dr S Brennan, Ms K Walkem

Teaching Pattern: study days and workshops

Offered in Courses: [ H6F ]

CNA733 - Approaches to Child Development in Child & Family Health: Practice Perspectives (Unit not offered in 2006)

Special Note: Rotational unit.

Description: Focuses on the development of student competency in health assessment, screening and child development in preparation for independent practice within the increasingly complex of family and child health nursing.

Staff: Dr S Brennan

Teaching Pattern: 6 hrs weekly (13 wks), seminars, video-conferencing and study days

Offered in Courses: [ H6F ]
CNA734 - Working with the Woman During and After a Normal Birth

Description: Provides students with the knowledge to work with the woman and her family during labour, birth and the first post partum days. Underpinning this course is a belief that childbirth is essentially a normal and problem free process. The unit encourages students to develop attitudes which respect and support women in the decisions they make regarding their birthing experience. Students develop the skills necessary to provide women centred care and guidance during the birthing experience.

Requisites: PREREQ - CNA707, CNA788, CNA789 COREQ - CNA735

Staff: Dr J Sankey (Coordinator)

Teaching Pattern: lectures, tutorials and self directed learning, practicum

Assessment: 1 assignment, examination, case study, practice (ungraded pass/fail)


Offered in Courses: [ H6C ]

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CNA735 - Baby Care Following Birth

Description: This unit focuses on the care of the baby following birth. Physiological and psychosocial adaptation of the baby are included. Infant feeding, promotion and establishment of breastfeeding and early minor disorders that the newborn may experience are explored. Studies include legal, ethical and cultural issues that impact upon midwifery practice.

Requisites: PREREQ - CNA707, CNA788, CNA789 COREQ - CNA734

Staff: Dr J Sankey (Coordinator)

Teaching Pattern: lectures, tutorials, small group work, practicum

Assessment: 1 assignment, 1 take-home exam, assessment in clinical practice (ungraded pass/fail)


Offered in Courses: [ H6C ]

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CNA736 - Working with the Woman During and After a Complicated Birth

Description: Provides an opportunity to examine the midwives' responsibility to provide safe care during labour and birth. The unit considers at-risk and complicated situations that may endanger the health of either the woman or her foetus/neonate. Emphasis is on working with women to achieve appropriate referral to and collaboration with other members of the health care team to enhance the outcomes for mother and family.

Requisites: PREREQ - CNA707, CNA788, CNA789, CNA734, CNA735 COREQ - CNA737

Staff: Dr J Sankey (Coordinator)

Teaching Pattern: lectures, tutorials, small group work, practicum

Assessment: 2 assignments, portfolio, practice (ungraded pass/fail)


Offered in Courses: [ H6C ]

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CNA737 - The Baby Who Experiences Problems

Description: Provides students with the necessary knowledge and skills to care for sick infants and their families following birth. Studies include initiating emergency management and assisting in the stabilising of a sick neonate as well as related social issues. In addition, emphasis is placed on the psychosocial problems faced by the families of neonates who require extra care.

Requisites: PREREQ - CNA707, CNA788, CNA789, CNA734, CNA735 COREQ - CNA736

Staff: Dr J Sankey (Coordinator)

Teaching Pattern: lectures, tutorials and self directed learning, practicum

Assessment: skills assessment, assignment, exam, practice (ungraded pass/fail)


Offered in Courses: [ H6C ]

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CNA738 - Biological Therapies in Mental Health Care

Special Note: This unit is available subject to student numbers and resources.

Description: Provides students with an overview of neurobiological concepts. Subjects covered include: neurophysiology, neuroanatomy,
and drug receptors as the basis of action of all drugs. The mechanisms by which drug treatment may restore CNS (central Nervous System) imbalance is examined. Classes of drugs commonly encountered in the psychiatric nursing environment will be covered in detail.

Staff: Dr D Geraghty

Teaching Pattern: Study days, regional tutorials, video-conferencing (equiv to 3 hrs per week.)

Assessment: Powerpoint presentation, written assignment

Offered in Courses: [ H6F ] [ H7F ]

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CNA739 - Psychological Therapies in Mental Health Care

Special Note: This unit is available subject to student numbers and resources.

Description: This unit introduces students to psychological therapies for mental health problems, either as stand alone interventions or in combination with pharmacological interventions. Students will be introduced to cognitive behaviour therapy (CBT) models. The Unit will address CBT Principles, Resources and Practical Skills in addition to specific CBT skills for managing anxiety disorders, depression and psychosis.

Staff: Mrs C Handley, Ms E Hart

Teaching Pattern: 5 day intensive theoretical and experiential workshop

Assessment: 6,000 word clinically based assignment


Offered in Courses: [ H6F ] [ H7F ]

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CNA740 - Introduction to Acute Care Mental Health Nursing: Theoretical Perspectives (Unit not offered in 2006)

Special Note: Rotational unit. This unit is available subject to student numbers and resources.

Description: Introduces students to some of the fundamental concepts and key debates in acute mental health/psychiatric nursing. A main focus is on client assessment and the use of a range of interventions for clients who are experiencing acute mental disorders. Current trends in mental health care and the legal and ethical issues as they affect nurses' practice are also introduced.

Staff: Mrs C Handley, Prof G Farrell

Teaching Pattern: 8 study days

Assessment: seminar presentation (20%), 2,500-word essay on a topic related to a contemporary clinical issue (80%)


Clinton M & Nelson S, Advanced Practice in Mental Health, Blackwell, Oxf, 1999

Kaplan IH, Sodcko B & Grebb JA, Synopsis of Psychiatry, 7th edn, Williams & Wilkins, Baltimore, 1994


WHO, Acute Inpatient Psychiatric Care: A Source Book, Darlinghurst, NSW, 1999

Offered in Courses: [ H5F ] [ H6F ]

CNA741 - Introduction to People with Long Term Mental Illness: Theoretical Perspectives (Unit not offered in 2006)

Special Note: Rotational unit. This unit is available subject to student numbers and resources.

Description: This unit focuses on the issues, approaches to assessment and forms of intervention employed in community care settings in conjunction with CNA743. The unit also considers aspects of rehabilitation and recovery in the mental health area, concerning people with long standing mental health problems.

Requisites: COREQ - CNA743

Staff: Mrs C Handley, Prof G Farrell

Teaching Pattern: 8 Study days over the semester.

Assessment: seminar presentation (20%), and a resource portfolio (80%)


Puckett A, Community Mental Health, WB Saunders, Syd, 1993

Barker P, Assessment in Psychiatric and Mental Health Nursing: In search of the Whole Person, Stanley Torres, Cheltenham, 1997

Clinton M & Nelson S, Advanced Practice in Mental Health, Blackwell, Oxf, 1999


Offered in Courses: [ H5F ] [ H6F ]
CNA742 - Introduction to Acute Care Mental Health Nursing: Practice Perspectives (Unit not offered in 2006)

Special Note: Rotational unit. This unit is available subject to student numbers and resources.

Description: This unit encourages students to move beyond psychiatric nomenclature and to begin to appreciate illness from the perspective of the client. Students are encouraged to take a critical reflective approach to care, that is, to question taken-for-granted practices and policies in order to enhance their sensitivity, refine their skills and discover insights relevant for expert practice in mental health nursing.

Staff: Mrs C Handley, Prof G Farrell

Teaching Pattern: 8 study days, supervised clinical practice

Assessment: problem-based learning packages (30%), 2,000-word essay (40%), performance-based assessment (30%)


Offered in Courses:  [ H5F ] [ H6F ]

CNA743 - Introduction to People with Long Term Mental Illness: Practice Perspectives (Unit not offered in 2006)

Special Note: Rotational unit. This unit is available subject to student numbers and resources.

Description: This unit focuses on the issues, approaches to assessment and forms of intervention employed in community care settings in conjunction with CNA741. The unit also considers aspects of rehabilitation and recovery in the mental health area, concerning people with long standing mental health problems. Emphasis is placed on critical reflection on practice as the vehicle for acquiring the beginning level specialist competencies necessary for effective nursing practice in the area of mental health.

Requisites: COREQ - CNA741

Staff: Mrs C Handley, Prof G Farrell

Teaching Pattern: 8 study days, and supervised clinical practice

Assessment: case study or rehabilitation project (60%), take-home exam (40%)

Puckett A, *Community Mental Health*, WB Saunders, Syd, 1993

Offered in Courses:  [ H5F ] [ H6F ]

CNA748 - Advanced Midwifery Practice

Special Note: Offered statewide to Registered Nurses with specialist qualifications and extensive clinical experience. Completion of the Graduate Diploma in Nursing (or equiv) is required.

Description: This unit offers midwives with advanced practice skills the opportunity to identify and explore notions of transformative midwifery practice. The unit examines and critiques past and present leadership practices and explores issue and trends effecting midwifery practice. Students are encouraged to creatively envision and develop strategies to stimulate innovation, learning, and the application of research findings.

Staff: Dr S Brennan

Teaching Pattern: Combination of study days and regional tutorials.

Assessment: Development of interactive workshop (40%) and written papers (60%)

Required Texts:

Offered in Courses:  [ H7C ]

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CNA749 - Advanced Discipline Studies in Midwifery

Special Note: Offered statewide to Registered Nurses with specialist qualifications and extensive clinical experience. Completion of the Graduate Diploma in Nursing (or equiv) is required.

Description: This unit offers advanced practice midwives the opportunity to extend their clinical knowledge and skills by means of a negotiated learning contract. In addition, students explore opportunites to facilitate the learning of others, provide evidence of professional development and commitment to their specialisation.

Staff: Dr S Brennan (Coordinator)

Teaching Pattern: Combination of study days and regional tutorials

Assessment: Learning contract (40%), peer consultation report (15%), presentation (20%), discussion paper (25%)

Required Texts: No required text

Offered in Courses:  [ H7C ]

Unit Delivery Information:
CNA754 - Foundations of Perioperative Nursing Practice

Special Note: This unit is available subject to student numbers and resources.

Description: This unit explores what it means to be a Perioperative nurse, situating the practitioner within the specialty area. Clinical practice strongly guides the unit where meanings may be explored within an experiential mode of learning. Competency development is built upon, and supported by clinical preceptors, the clinical facilitator and guided by readings and tutorials. The unit develops a Perioperative nurse practitioner who is able to assess the pre, intra and post-operative patient and prioritise management, applying the concepts of unit CNA756.

Requisites: COREQ - CNA756

Staff: Ms M Greenwood (Course Coordinator), Ms Judith Walters (Burnie), Ms Leanne Hollier (Launceston), tba (Hobart)

Teaching Pattern: 3 hrs weekly, 3-4 days experience weekly in operating rooms throughout the state.

Assessment: 2 - 3,000-word clinical inquiry into practice (40%), clinical practice profile (50%), ALS assessment (10%).

Offered in Courses: [ H5F ] [ H6F ]

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CNA755 - Management of the Perioperative Patient Practice

Special Note: This unit is available subject to student numbers and resources.

Description: This unit builds on the knowledge and skills developed in CNA754. It explores further what it means to be a perioperative nurse, situating the practitioner within the specialty area. This unit complements CNA757. Clinical practice strongly guides the unit where meanings arising from the content addressed in CNA754 are explored within an experiential mode of learning. Competency development is built on using advanced problem solving and communication skills. This unit is supported by clinical preceptors, the clinical facilitator and is guided by readings and tutorials.

Requisites: COREQ - CNA757 PREREQ - CNA754

Staff: Ms M Greenwood (Course Coordinator), Ms Judith Walters (Burnie), Ms Leanne Hollier (Launceston), tba (Hobart)

Teaching Pattern: 3 hrs weekly, 3-4 days experience weekly in operating rooms throughout the state.

Assessment: Professional practice portfolio (90%), paediatric advanced life support (10%)

Offered in Courses: [ H5F ] [ H6F ]

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CNA756 - Foundations of Perioperative Nursing Theory

Special Note: This unit is available subject to student numbers and resources.

Description: This unit focuses upon exploring theories of perioperative nursing. The content of this unit includes scientific practice issues related to perioperative nursing such as principles of surgical asepsis, anaesthesia, positive pressure ventilation, haemodynamic management of the perioperative patient and the applied psychological dimensions of perioperative nursing practice. Students gain knowledge in the applied pathophysiology and surgical techniques for endoscopic and general surgery. First line management of emergency situations in the perioperative environment will be explored.

Requisites: COREQ - CNA754

Staff: Ms M Greenwood (Course Coordinator), Ms Judith Walters (Burnie), Ms Leanne Hollier (Launceston), tba (Hobart)

Teaching Pattern: 3 hrs weekly, lectures and tutorials

Assessment: 2 - 3,000-word case study (60%), tutorial presentation (10%), problem based activities (30%)

Offered in Courses: [ H5F ] [ H6F ]

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CNA757 - Management of the Perioperative Patient Theory

Special Note: This unit is available subject to student numbers and resources.

Description: This unit builds on CNA756 Foundations of Perioperative Nursing Theory. The content of this unit focuses on the scientific theories related to nursing the perioperative patient with ear, nose and throat, gastro-intestinal tract, obstetric, cardiothoracic and neurological pathology. The principles of nursing the child undergoing operative procedures are also examined. The unit includes management theories, social, ethical and legal issues of perioperative nursing from a local and global perspective.

Requisites: PREREQ - CNA754, CNA756 COREQ - CNA755

Staff: Ms M Greenwood (Course Coordinator), Ms Judith Walters (Burnie), Ms Leanne Hollier (Launceston), tba (Hobart)

Teaching Pattern: 3 hrs weekly, lectures and tutorials

Assessment: 3 - 3,500-word case study (60%), problem based worksheets (20%), presentation (20%)

Offered in Courses: [ H5F ] [ H6F ]

Unit Delivery Information:
CNA764 - Foundations of Paediatric Nursing Practice

Special Note: This unit is available subject to student numbers and resources.

Description: This unit explores what it means to be a paediatric nurse and situates the practitioner within this specialty area. Experiential learning in clinical practice will focus on applying the principles of human growth and development to the care of children and their families. Primary Health Care principles guide practice in this unit. Students will also examine nursing interventions for paediatric gastroenterology and respiratory conditions. Paediatric Resuscitation skills will be developed. Clinical practice is reflected on utilising the Specialist Competencies for the Paediatric and Child Health Nurse.

Requisites: COREQ - CNA766

Staff: Ms M Greenwood (Course Coordinator), Ms K Ford, Mr M Sherring

Teaching Pattern: 3 hrs weekly, tutorials/laboratory practicals and 3-4 days experience in paediatric departments through the state;

Assessment: Clinical enquiry paper (2 - 3,000 words) (40%), Competency based profile (60%), Paediatric resuscitation (satis/unsatis)


or


Offered in Courses: [ H5F ] [ H6F ]

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CNA765 - Acute Care Management of the Child & Family Theory

Special Note: This unit is available subject to student numbers and resources.

Description: This unit builds on the content of CNA766. Students will explore the knowledge underpinning the care of sick children and their families. Students gain knowledge in the pathophysiology, pharmacokinetics and practices involved in caring for children with a range of medical, psychological and surgical conditions.

Requisites: PREREQ - CNA764, CNA766 COREQ - CNA767

Staff: Ms M Greenwood (Course Coordinator), Ms K Ford, Mr M Sherring

Teaching Pattern: 3 hrs weekly tutorials/laboratory practicals

Assessment: Competency based profile(100%)


or


Offered in Courses: [ H5F ] [ H6F ]

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CNA766 - Foundations of Paediatric Nursing Theory

Special Note: This unit is available subject to student numbers and resources.

Description: This unit focuses on paediatric nursing in Australian within social, political and economic influences. The unit allows students to explore how these factors influence their practice within the acute care environment, with particular attention to the evolving role of the family in a child's health care. The historical development of paediatric nursing as a discipline is examined and the implications for practice is explored in an ever-changing society. The growth and development of the child from birth to adolescence which underpins the approach to practice is examined. Students are also introduced to the pathophysiology, pharmacokinetics, and therapeutic practices which are related to caring for the child with an alteration in their respiratory and gastrointestinal tract status and the theoretical underpinnings of paediatric resuscitation.

Requisites: COREQ - CNA764

Staff: Ms M Greenwood (Course Coordinator), Ms K Ford, Mr M Sherring

Teaching Pattern: 3 hrs weekly, lectures/tutorials

Assessment: 2,000-word seminar paper (30%), presentation (10%), 3,000-word clinical essay (60%)


Offered in Courses: [ H5F ] [ H6F ]

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### CNA766 - Acute Care Management of the Child & Family Practice

**Special Note:** This unit is available subject to student numbers and resources.  
**Description:** This unit builds on the content undertaken in CNA 764. Competency development continues through clinical experiences within the paediatric unit. Paediatric medical, surgical and psychological nursing interventions are examined through tutorials and supported in practice by clinical preceptors and the course facilitator.  
**Requisites:** PREREQ - CNA764, CNA766  
**Staff:** Ms M Greenwood (Course Coordinator), Ms K Ford, Mr M Sherring  
**Teaching Pattern:** 3 hrs weekly - lectures/tutorials and 3-4 days per week experience in paediatric departments throughout the state  
**Assessment:** Complex case study and presentation (60%), two worksheets (20% each)  
**Offered in Courses:** [ H5F ] [ H6F ]  
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### CNA770 - Foundations of Critical Care Nursing Practice

**Special Note:** This unit is available subject to student numbers and resources.  
**Description:** This unit explores what it means to be a critical care nurse, situating the practitioner within the specialty area. Clinical practice strongly guides the unit where meanings may be explored with an experiential mode of learning. Competency development is built on, supported by clinical preceptors, the clinical facilitator and guided by readings and tutorials. The unit develops a critical care nurse who is able to assess the critically ill patient, plan and prioritise management, applying the concepts of CNA772.  
**Requisites:** COREQ - CNA772  
**Staff:** Ms M Greenwood (Unit Coordinator), Mr A Brown  
**Teaching Pattern:** combination of study days and tutorials and 3-4 days experience in critical care departments through the state.  
**Assessment:** Clinical Practice Profile (50%), 2,000 to 3,000-word clinical inquiry (40%), ALS assessment (10%).  
**Required Texts:** tba  
**Offered in Courses:** [ H5F ] [ H6F ]  
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### CNA771 - Contemporary Critical Care Nursing Practice

**Special Note:** This unit is available subject to student numbers and resources.  
**Description:** This unit builds upon the knowledge and skills developed in CNA770. It explores further what it means to be a critical care nurse, situating the practitioner within the specialty area. This unit complements CNA773. Clinical practice strongly guides the unit where meanings arising from the content addressed in CNA773 are explored within an experiential mode of learning. Competency development is built upon utilising advanced problem solving and communication skills. The unit is supported by clinical preceptors, clinical facilitator and guided by readings and tutorials.  
**Requisites:** PREREQ - CNA770, CNA772, COREQ - CNA773  
**Staff:** Ms M Greenwood (Unit Coordinator), Mr A Brown  
**Teaching Pattern:** combination of study days and tutorials and 3-4 days experience in critical care departments through the state.  
**Assessment:** Portfolio of critical care nursing practice (90%), PALS assessment (10%)  
**Required Texts:** No required text  
**Offered in Courses:** [ H5F ] [ H6F ]  
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### CNA772 - Foundations of Critical Care Nursing Science

**Special Note:** This unit is available subject to student numbers and resources.  
**Description:** This unit explores theories underpinning critical care nursing, exploring foundations of critical care nursing science. The content of this unit includes scientific practice issues related to critical care such as principles of positive pressure ventilation, haemodynamic management of the critically ill patient and the applied psychological dimensions of critical care nursing. Students gain knowledge in the pathophysiology of respiratory, cardiac, renal and neurological disease processes, pharmacokinetics, and theories related to first line management of emergency situations.  
**Requisites:** COREQ - CNA770  
**Staff:** Ms M Greenwood (Unit Coordinator), Mr A Brown  
**Teaching Pattern:** Combination of study days and tutorials  
**Assessment:** 2,000 to 3,000-word case study (60%), tutorial (10%), problem-based worksheets (30%)  
**Offered in Courses:** [ H5F ] [ H6F ]  
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CNA773 - Contemporary Critical Care Nursing Science

**Description:** This unit is available subject to student numbers and resources.

This unit builds on CNA772. The content of this unit focuses on the scientific theories related to nursing the critically ill patient with acute renal, endocrine, gastrointestinal tract, multi-organ systems failure, obstetric, cardiothoracic and neuro-medical pathology. The principles of nursing the critically ill child are also examined. The unit covers management, social, ethical and legal issues of critical care nursing from a local and global perspective.

**Requisites:** PREREQ - CNA770, CNA772 COREQ - CNA771

**Staff:** Ms M Greenwood (Unit Coordinator), Mr A Brown

**Teaching Pattern:** Combination of study days and tutorials

**Assessment:** Applied pathophysiology essay (case study) 2-300 words (60%), presentation (20%), problem based worksheets (20%)

**Required Texts:** No required text

CNA774 - Foundations of Neonatal Intensive Care Nursing Practice

**Description:** This unit will focus on Clinical Practice based learning within the specialty area of Neonatal Intensive Care. Advanced skills acquisition in acute care setting is a major focus of the unit. The theoretical components of CNA776 will be integrated and applied from a practice perspective. Students will explore how their practice is influenced by an acute care family-centred environment.

**Requisites:** COREQ - CNA776

**Staff:** Ms M Greenwood (Course Coordinator), Ms C Norris

**Teaching Pattern:** 3 hrs weekly, tutorials and 3-4 days experience in the NICU department.

**Assessment:** 2-3,000-word clinical focus paper (50%), clinical practice competency assessment (50%), clinical practice review (pass/fail)

CNA775 - Clinical Perspectives of Nursing the Complex and Critically Ill Neonate

**Description:** Clinical competency development will continue to be the focus of this unit with more advanced and complex nursing management of the sick neonate undertaken. The application of therapeutic intervention and the effect of these applications on nursing practice are examined and the evidence-based practice model is used to investigate nursing practice.

**Requisites:** PREREQ - CNA774, CNA776 COREQ - CNA777

**Staff:** Ms M Greenwood (Course Coordinator), Ms C Norris

**Teaching Pattern:** 3 hrs weekly, tutorials and 3-4 days experience in the NICU department.

**Assessment:** practice portfolio (60%), clinical practice based assessment (40%)

CNA776 - Foundations of Neonatal Intensive Care Nursing Theory

**Description:** This unit will focus on introducing the student to the science of neonatology and the development of neonatal intensive nursing care as a discipline. This unit examines the theoretical basis of embryology, pathophysiology, therapeutic intervention and the evidence based practices that are essential components of understanding the neonate and the family. Students will explore how the theories that underpin decisions and clinical judgement in the specialty of neonatal intensive care are applied in an acute care family-centred environment.

**Requisites:** COREQ - CNA774

**Staff:** Ms M Greenwood (Course Coordinator), Ms C Norris

**Teaching Pattern:** 3 hrs weekly, lectures

**Assessment:** 2-3000 case study (50%), case study presentation (30%), tutorial presentation (20%)

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### Unit Delivery Information

#### CNA772 - Contemporary Critical Care Nursing Science

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#### CNA774 - Foundations of Neonatal Intensive Care Nursing Practice

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#### CNA775 - Clinical Perspectives of Nursing the Complex and Critically Ill Neonate

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#### CNA776 - Foundations of Neonatal Intensive Care Nursing Theory

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CNA777 - Theoretical Perspectives of Nursing the Complex and Critically Ill Neonate

**Special Note:** This unit is available subject to student numbers and resources.

**Description:** Pathophysiology is used as a key learning component in understanding the relationship between physiological principles, therapeutic application and patient outcomes. The application of advanced therapeutic technologies and agents in Neonatal Intensive Care management are examined in this unit. The effects, both expected and unexpected of those technologies, will be questioned in relation to efficacy, efficiency and patient outcomes.

**Requisites:** PREREQ - CNA774, CNA776 COREQ - CNA775

**Staff:** Ms M Greenwood (Course Coordinator), Ms C Norris

**Teaching Pattern:** 3 hrs weekly, lectures/tutorials

**Assessment:** Presentation of case study (40%) and case study (60%)

**Offered in Courses:** [ H5F ] [ H6F ]

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CNA780 - Communication and Assessment in Acute Nursing (Unit not offered in 2006)

**Special Note:** Restricted to registered nurses undertaking graduate diploma studies. Students must be currently employed in acute care nursing.

**Description:** In this unit students will advance their assessment skills and communication awareness and skills within the acute context. Content includes advanced physical and psycho-social assessment skills; communication pathways in acute care settings and interpersonal skills.

**Staff:** TBA

**Teaching Pattern:** A combination of study days, online and distance education.

**Assessment:** Patient admission assessment, written report and in practice communication assessment.

**Offered in Courses:** [ H6F ]

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CNA781 - Practice Advancement in Acute Nursing (Unit not offered in 2006)

**Special Note:** Restricted to registered nurses undertaking graduate diploma studies. Students must be currently employed in acute care nursing.

**Description:** This unit allows students to adopt a self-directed approach to extending and developing their clinical skills. Students will identify an area they wish to develop pertaining to the clinical setting in which they are employed. In consultation with the unit coordinator, students will develop a comprehensive learning contract and present evidence of their knowledge and skill attainment within a professional portfolio.

**Staff:** TBA

**Teaching Pattern:** A combination of study days, online and distance education.

**Assessment:** A substantial portfolio of evidence

**Offered in Courses:** [ H6F ]

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CNA782 - The Acute Illness Experience (Unit not offered in 2006)

**Special Note:** Restricted to registered nurses undertaking graduate diploma studies. Students must be currently employed in acute care nursing.

**Description:** In this unit students will examine the experience of acute illness from the patient/client perspective. The physical and psycho-social response of patients and their families to a sudden acute episode of illness is considered using a variety of approaches including theoretical perspectives patient narratives. Areas to be specifically covered include: hospitalisation and sense of self; rethinking the life biography; exploring nurse-patient behaviours; patient explanations and understandings of illness.

**Staff:** TBA

**Teaching Pattern:** A combination of study days, online learning and distance education.

**Assessment:** Two written papers

**Offered in Courses:** [ H6F ]

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CNA783 - The Politics of Acute Nursing (Unit not offered in 2006)

**Special Note:** Restricted to registered nurses undertaking graduate diploma studies. Students must be currently employed in acute care nursing.

**Description:** This unit explores the context of acute care nursing within hospital and community settings. Students will examine the politics of power in nursing and the wider health arena. Specific areas include: legal and ethical issues; career pathways; patient acuity; retention and education of nurses.

**Staff:** TBA

**Teaching Pattern:** A combination of study days, online and distance education.

**Assessment:** Two written Papers

**Offered in Courses:** [ H6F ]

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CNA784 - Foundations of Emergency Nursing Practice

**Special Note:** This unit is available subject to student numbers and resources

**Description:** This unit explores the role of the emergency nurse in the clinical setting. Clinical practice is an integral part of the unit, through which students explore practice issues in the area of emergency care. Clinical preceptors and course facilitator provide support in the clinical
setting. The unit allows the student to develop as an emergency nurse and focuses on the development of effective communication skills, accurate assessment and prioritisation skills, and the integration of knowledge and evidence-based practice concepts learned from the Foundations of Emergency Nursing Science Unit.

**Requisites:** COREQ - CNA786

**Staff:** Ms M Greenwood (Course Coordinator), Mr S Probert, Ms P Allen

**Teaching Pattern:** Combination of study days and tutorials, and 3-4 days per week experience in emergency departments across the state

**Assessment:** Practice profile (50%), clinical inquiry (40%), advanced life support (10%)

**Offered in Courses:** [ H5F ] [ H6F ]

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**CNA785 - Clinical Perspectives of Emergency Nursing Practice**

**Special Note:** This unit is available subject to student numbers and resources.

**Description:** Builds on foundations of Emergency Nursing Practice, undertaken in CNA784. Clinical practice continues to strongly guide the unit where meanings may be explored within an experiential mode of learning. Competency development is supported by clinical preceptors, the clinical facilitator, and guided by readings and tutorials. The unit develops an emergency nurse practitioner who is able to assess and evaluate the patient's condition, using advanced problem solving and communication skills, and prioritise management applying the concepts addressed in the emergency science unit CNA787.

**Requisites:** PREREQ - CNA784, CNA786 COREQ - CNA787

**Staff:** Ms M Greenwood (Course Coordinator), Mr S Probert, Ms P Allen

**Teaching Pattern:** Combination of study days and tutorials and 3-4 days per week experience in emergency departments across the state

**Assessment:** Practice portfolio (100%)

**Required Texts:** No required text

**Offered in Courses:** [ H5F ] [ H6F ]

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**CNA786 - Foundations of Emergency Nursing Science**

**Special Note:** This unit is available subject to student numbers and resources.

**Description:** This unit explores the foundations of emergency nursing science. The content of this unit focuses on the science and theory of trauma care, homeostasis, triage and psychological dimensions of emergency care. Students gain knowledge of pathophysiological processes occurring in disease and trauma states, pharmacokinetics, and first line management of emergency presentations of cardiac, respiratory, shock, renal and neurological conditions.

**Requisites:** COREQ - CNA784

**Staff:** Ms M Greenwood (Course Coordinator), Mr S Probert, Ms P Allen

**Teaching Pattern:** Combination of study days and tutorials

**Assessment:** Case study (50%), tutorial (10%), problem-based worksheets (40%)

**Offered in Courses:** [ H5F ] [ H6F ]

**Unit Delivery Information:**

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**CNA787 - Triage and Complex Management of the Emergency and Trauma Patient**

**Special Note:** This unit is available subject to student numbers and resources.

**Description:** This unit builds on CNA786. The content of this unit focuses on the science related to nursing the emergency patient with endocrine, gynaecological, obstetric, haematological pathology. Emergency management of the paediatric, psychiatric and geriatric patient are also studied. The unit also explores disaster management, social, ethical and legal issues of emergency nursing from a local and global perspective.

**Requisites:** PREREQ - CNA784, CNA786 COREQ - CNA785

**Staff:** Ms M Greenwood (Course Coordinator), Mr S Probert, Ms P Allen

**Teaching Pattern:** Combination of study days and tutorials

**Assessment:** Case study (50%), presentation (20%), problem-based worksheet (30%)

**Offered in Courses:** [ H5F ] [ H6F ]

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**CNA788 - Context in Which Women Live**

**Description:** Introduces students to a primary health care approach in working with women and their families during pregnancy, birth and early parenting experiences. Students examine the diversity of the Australian family and how this influences the provision of midwifery care. Issues facing the contemporary Australian family are explored and their impact upon the childbearing family examined. Strategies to
empower women and their families are critically examined to determine the ways in which women can be assisted in playing an active role in decision-making about their health.

**Requisites:** PREREQ - CNA707 COREQ - CNA789  
**Staff:** Dr J Sankey (Coordinator)  
**Teaching Pattern:** lectures, tutorials and self directed learning  
**Assessment:** 2 assignments  
**Offered in Courses:** [ H6C ]

**Unit Delivery Information:**

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**CNA798 - The Woman During Pregnancy A**

**Special Note:** Students required to undertake 5 days of supernumerary of observation practice in the second semester. On completion of CNA798 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CNA799. Students are required to enrol concurrently in CNA798 and CNA799.  
**Description:** Students explore the maternity care and support of the pregnant woman and her family. It prepares students to work in partnership with women in providing midwifery care from pre-conception to the onset of labour. Students build upon their knowledge of human bioscience, and behavioural sciences in developing an understanding of pregnancy. Studies include the legal, ethical and cultural factors that may impact upon the childbearing family. Students are given the opportunity to examine models of care that integrate choice, continuity, and control for the woman surrounding the birthing experience. Students, as part of the multidisciplinary team, develop competence in recognising and implementing culturally appropriate midwifery models of care during pregnancy.  
As part of this unit students develop knowledge of the pathophysiological conditions the woman may experience during pregnancy. They undertake a review of research literature so they appreciate best practice guidelines for supporting a woman and her family throughout pregnancy.  
**Requisites:** COREQ - CNA707, CNA788, CNA799  
**Staff:** Dr J Sankey (Coordinator)  
**Teaching Pattern:** Lectures, tutorials, integrated clinical practicum, and self directed learning  
**Assessment:** 2 assignments, 1 case study, presentation, practice (ungraded pass/fail)  
**Offered in Courses:** [ H6C ]

**Unit Delivery Information:**

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**CNA799 - The Woman During Pregnancy B**

**Special Note:** Students required to undertake 5 days of supernumerary of observation practice in the second semester. On completion of CNA798 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CNA799. Students are required to enrol concurrently in CNA798 and CNA799.  
**Description:** Students explore the maternity care and support of the pregnant woman and her family. It prepares students to work in partnership with women in providing midwifery care from pre-conception to the onset of labour. Students build upon their knowledge of human bioscience, and behavioural sciences in developing an understanding of pregnancy. Studies include the legal, ethical and cultural factors that may impact upon the childbearing family. Students are given the opportunity to examine models of care that integrate choice, continuity, and control for the woman surrounding the birthing experience. Students, as part of the multidisciplinary team, develop competence in recognising and implementing culturally appropriate midwifery models of care during pregnancy.  
As part of this unit students develop knowledge of the pathophysiological conditions the woman may experience during pregnancy. They undertake a review of research literature so they appreciate best practice guidelines for supporting a woman and her family throughout pregnancy.  
**Requisites:** COREQ - CNA707, CNA788, CNA798  
**Staff:** Dr J Sankey (Coordinator)  
**Teaching Pattern:** Lectures, tutorials, integrated clinical practicum, and self directed learning  
**Assessment:** 2 assignments, 1 case study, presentation, practice (ungraded pass/fail)  
**Offered in Courses:** [ H6C ]

**Unit Delivery Information:**

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**CNA802 - Advanced Professional Nursing Practice**

**Special Note:** Offered statewide to Registered Nurses with specialist qualifications and extensive clinical experience. Completion of the Graduate Diploma in Nursing (or equiv) is required.  
**Description:** This unit offers nurses with advanced practice skills the opportunity to identify and explore notions of transformative nursing practice. The unit examines and critiques past and present leadership practices and explores issue and trends effecting specialist nursing practice. Students are encouraged to creatively envision and develop strategies to stimulate innovation, learning, and the application of research findings.
Requisites: PREREQ - completion of year 1 and year 2 units (or equiv) of the Master of Clinical Nursing schedule
Staff: Dr S Brennan (Coordinator),
Teaching Pattern: Combination of study days and regional tutorials
Assessment: Development of interactive workshop (40%) and written papers (60%)
Offered in Courses: [ H7F ]

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CNA803 - Advanced Clinical Nursing Practice

Special Note: Offered statewide to Registered Nurses with specialist qualifications and extensive clinical experience. Completion of the Graduate Diploma of Nursing (or equiv) required.
Description: This unit offers advanced practice nurses the opportunity to extend their clinical knowledge and skills by means of a negotiated learning contract. In addition, students explore opportunities to facilitate the learning of others and provide evidence of professional development and commitment to their specialisation.
Staff: Dr S Brennan (Coordinator)
Teaching Pattern: Combination of study days and regional tutorials
Assessment: Learning contract (40%), peer consultation report (15%), presentation (20%), discussion paper (25%)
Required Texts: 
Offered in Courses: [ H7F ]

Unit Delivery Information:

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CRH500 - Introduction to Health Informatics

Special Note: semester 5 (end-of-year school) = November--December
Description: Considers the increasing impact of technology in contemporary society with a particular focus on health services. The unit explores some current applications of health informatics and identifies a number of issues associated with the use of technology in health care. It provides the foundation for ongoing exploration of health informatics.
Staff: Ms S Whetton
Teaching Pattern: external, flexible delivery via Internet or CD; a self-directed learning unit. Students complete tasks and activities at their own pace, within the parameters of semester requirements.
Assessment: continuous assessment by assignment/course work
Required Texts: tba
Offered in Courses: [ H5E ] [ H6E ]

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CRH501 - Data, Information and Knowledge

Special Note: semester 5 (end-of-year school) = November--December
Description: Focuses on database management systems and introduces the key concepts of data, information and knowledge in the context of relational database development as applied to health.
Staff: Ms S Whetton, Ms J Hartnett
Teaching Pattern: external, flexible delivery via Internet or CD; a self-directed learning unit. Students complete tasks and activities at their own pace, within the parameters of semester requirements.
Assessment: continuous assessment by assignment/course work
Required Texts: tba
Offered in Courses: [ H5E ] [ H6E ]

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CRH502 - Health Online

Special Note: semester 5 (end-of-year school) = November--December
Description: Explores the changes occurring in the structure and delivery of health services as a result of technologies such as the Internet and telehealth. The unit considers the impact of such technology on consumers, communities, health professionals and health services.
Requisites: PREREQ - CRH500, CRH501
Staff: Prof J Walker

Teaching Pattern: external, flexible delivery via Internet or CD; a self-directed learning unit. Students complete tasks and activities at their own pace, within the parameters of semester requirements.

Assessment: continuous assessment by assignment/course work

Required Texts: tba


Offered in Courses: [H5E] [H6E]

**Unit Delivery Information:**

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**CRH503 - Legal and Ethical Issues of Emerging Technologies**

Special Note: semester 5 (end-of-year school) = November–December

Description: Explores issues such as duty of care and negligence, privacy and confidentiality, data management, access and use as they relate to the use of information technology in health.

Requisites: PREREQ - CRH500, CRH501, CRH502

Staff: Ms Sue Whetton

Teaching Pattern: external, flexible delivery via Internet or CD; a self-directed learning unit. Students complete tasks and activities at their own pace, within the parameters of semester requirements.

Assessment: continuous assessment by assignment/course work

Required Texts: tba

Recommended Texts: tba

Offered in Courses: [H5E] [H6E]

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**CRH504 - The Diffusion of Health Technology (Managing Change)**

Special Note: semester 5 (end-of-year school) = November–December

Description: Explores issues relating to change management, particularly current theory and research on the successful introduction of technology in the health environment.

Requisites: PREREQ - CRH500

Staff: Ms S Whetton

Teaching Pattern: external, flexible delivery via Internet or CD; a self-directed learning unit. Students complete tasks and activities at their own pace, within the parameters of semester requirements.

Assessment: continuous assessment by assignment/course work

Required Texts: tba


Offered in Courses: [H5E] [H6E]

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**CRH505 - Electronic Health Records**

Special Note: semester 5 (end-of-year school) = November–December

Description: Explores the evolution of the electronic health record. The unit explores system requirements, vocabulary issues and standards. Privacy and security issues are explored in the context of providing high quality health care.

Requisites: PREREQ - CRH500, CRH501

Staff: Ms S Whetton, Prof J Walker

Teaching Pattern: external, flexible delivery via Internet or CD; a self-directed learning unit. Students complete tasks and activities at their own pace, within the parameters of semester requirements.

Assessment: continuous assessment by assignment/course work

Required Texts: tba


Offered in Courses: [H5E] [H6E]

**Unit Delivery Information:**

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CRH506 - Understanding Health Informatics Research

Special Note: semester 5 (end-of-year school) = November–December

Description: Provides students with the ability to use health informatics research in their professional environment. The unit explores theoretical approaches to and practical applications of research. This includes an exploration of the influence of the traditional, constructivist and critical paradigms on health informatics research. Examples of published research are dissected into key components (including introduction, literature review, methodology and methods, results and discussion) and analysed in the context of professional practice. While the unit focuses on seeking out and critically evaluating published health informatics research, it does not require students to plan and implement research. The unit provides a foundation for CRH507 Health Informatics Research Methods.

Staff: Ms S Whetton, Ms R Bull

Teaching Pattern: flexible delivery via Internet or CD; self-directed tasks and activities

Assessment: 1,500-word analysis of a single research article, 2,000-word literature review

Required Texts: tba

Recommended Texts: tba

Offered in Courses: [ H5E ] [ H6E ]

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CRH507 - Health Informatics Research Methods

Special Note: semester 5 (end-of-year school) = November–December

Description: Focuses on the steps involved in planning and implementing a piece of research. The unit develops an understanding of the planning, implementation and reporting processes used in health informatics research. It includes issues relating to the determination of research questions, hypotheses, data collection and analysis methods. The ethics involved in planning, conducting and reporting research is an integral part of the unit. The unit includes the design of data collection tools and an introduction to quantitative and qualitative data analysis techniques. Students plan and develop a research proposal, including preliminary development of research instruments, but do not implement a research project.

Staff: Ms S Whetton, Ms R Bull, others tba

Teaching Pattern: flexible delivery via Internet or CD; self-directed tasks and activities

Assessment: 2,500-word research portfolio including a methods workbook and a research proposal

Required Texts: tba

Recommended Texts: tba

Offered in Courses: [ H5E ] [ H6E ]

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CRH508 - Health Information Systems

Special Note: semester 5 (end-of-year school) = November–December

Description: Builds on CRH501 Data, Information and Knowledge. The unit is a detailed study of the development, implementation and maintenance of health care systems. It includes an exploration of systems theory as it applies to health information systems. The unit considers the life cycle of a health information system, including strategic and tactical information planning and project management and explores the impact on the organisation of each phase of the life cycle. It explores both technical (infrastructure, hardware & software, Standards & Codes) and people issues (education & skill development, changes to roles) which need to be resolved in the process of implementing a successful health information system. The unit also explores the role and impact of the informatics professional and the informatics/IT department within the health organisation.

Requisites: PREREQ - CRH501

Staff: Ms S Whetton, Ms J Hartnett, others tba

Teaching Pattern: flexible delivery via Internet or CD; self-directed tasks and activities

Assessment: 2,000-word case study and an essay on information systems project management

Required Texts: tba

Recommended Texts: tba

Offered in Courses: [ H5E ] [ H6E ]

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CRH509 - Rural and Remote E-health

Description: Geographical and social isolation, economic, political and demographic issues, and infrastructure constraints must be considered when planning and delivering health care services. The potential of health informatics to address these factors has been recognised although stakeholders identify different priorities for the application of health informatics technology. This unit explores trends in
the use of technology in health services for rural, remote and isolated consumers and considers potential consequences for stakeholders.

**Requisites:** PREREQ - CRH500, CRH501, CRH502

**Staff:** Professor Judith Walker

**Teaching Pattern:** This is a self-directed learning unit. Students complete tasks and activities at their own pace, within the parameters of semester requirements. Regular (weekly) contact is maintained via email, group email and online discussion.

**Assessment:** As a flexible learning course, e-health (Health Informatics) students are able to select from alternative learning pathways. The outcome of the assessment will be a discussion paper exploring advantages and disadvantages of contemporary models of rural and remote and isolated health service delivery (1500 words) and a proposal for a rural, remote, service utilising health informatics applications. Specific configuration of the assessment will depend on the learning pathway selected by the student.

**Required Texts:** Extensive online resources will be available via the Internet and the University library databases.

**Recommended Texts:** Extensive online resources will be available via the Internet and the University library databases.

**Offered in Courses:** [ H5E ] [ H6E ]

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**CSA101 - Pharmacy in Health Care**

**Special Note:** Students are required to enrol concurrently in CSA101 and CSA102

**Description:** The objectives of this unit are to:

1. Study the place of pharmacy in health care.
2. Introduce students to pharmacy practice concepts.
3. Develop the capacity for self-directed learning.
4. Improve information handling and communication skills.

The unit aims to develop in students an early appreciation of public health issues and the importance of disease prevention and the role of pharmacists in health maintenance and disease management. Furthermore, the course aims to develop in students and empathetic attitude and understanding of the personal attributes required of a pharmacist in the delivery of pharmaceutical care to the public. It seeks to strike a balance between the scientific background and skills, and the professional and human qualities required for the practice of pharmacy. On completion of this unit students receive a XX (results shown in another unit) result. The final result for this unit is granted on completion of CSA102.

**Requisites:** PREREQ - admission to Pharmacy

**Staff:** Dr G Jacobson (coordinator); Assoc Prof W Friesen, Dr R Rumble, Prof G Peterson, Mr G Taylor, Mr C Randall

**Teaching Pattern:** 4 hrs weekly

**Assessment:** All elements of the course shown below and in assessment outlined in CSA102 must be passed to pass the unit: 2 hour formal examination (June) 25%, (based on the two lectures per week taken jointly with medical students, conducted by S Lockwood and C Newell, Division of Community and Rural Health), Information Technology and Drug Information Practical report (pass/fail), Community Pharmacy Visit report (pass/fail), Library Database Workshop report (pass/fail).

On completion of this unit students receive a XX (results shown in another unit) result. The final result for this unit is granted on completion of CSA102.

Lovat TJ & Mitchell KR, Bioethics for Medical and Health Professionals, Social Science Press, Wentworth Falls, NSW, 1991

**Offered in Courses:** [ M3F ]

**Unit Delivery Information:**

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**CSA102 - Pharmacy in Health Care**

**Special Note:** Students are required to enrol concurrently in CSA101 and CSA102

**Description:** The objectives of the "Pharmacy in Health Care" unit are to:

1. Study the place of pharmacy in health care.
2. Introduce students to pharmacy practice concepts.
3. Develop the capacity for self-directed learning.
4. Improve information handling and communication skills.

The unit aims to develop in students an early appreciation of public health issues and the importance of disease prevention and the role of pharmacists in health maintenance and disease management. Furthermore, the course aims to develop in students and empathetic attitude and understanding of the personal attributes required of a pharmacist in the delivery of pharmaceutical care to the public. It seeks to strike a balance between the scientific background and skills, and the professional and human qualities required for the practice of pharmacy.

**Requisites:** PREREQ - Admission to Pharmacy

**Staff:** Dr G Jacobson (Coordinator); Assoc Prof W Friesen, Dr R Rumble, Prof G Peterson, Mr G Taylor, Mr C Randall

**Teaching Pattern:** 5 hrs weekly

**Assessment:** All elements of the course shown below and in assessment outlined in CSA101 must be passed to pass the unit: Hospital Visit
### CSA105 - Pharmacy in Health Care (Unit not offered in 2006)

**Description:** Imparts an understanding of modern pharmacy and medicine in the Australian community. Studies include: a brief history of disease; the Australian health care system and alternative models of national health care; basic principles of disease prevention and health promotion; biomedical ethics; a consideration of the various forms of ‘health’ and ‘ill-health’, and of the distribution of morbidity and mortality in contemporary Australia; biomedical statistics; health care economics; pharmacoepidemiology; child development, drug and alcohol studies; library skills and computer literacy; an introduction to bioinformatics and pharmacogenomics, pharmacy practice, pharmaceutical care, and rural health with lectures, assigned reading, seminars, information technology practicals, visits to hospital and community pharmacy practice sites. Semester 2 includes statistics modules covering descriptive statistics, experimental design, inferential statistics and basic probability. The lecture course is partially the same as CAM105, *Community Health and Medicine 1*, plus specific lectures for Pharmacy students.

**Requisites:** PREREQ - admission to Pharmacy

**Staff:** Dr G Jacobson, Mr S Lockwood (Coordinators); Assoc Prof W Friesen, Dr R Rumble, Prof G Peterson, Mr G Taylor, Mr C Randall

**Teaching Pattern:** sem 1: 4 hrs weekly; sem 2: 5 hrs weekly

**Assessment:** 2-hr exam in June (25%); 2-hr exam in Nov (25%), statistics modules (20%), seminars, hospital visit report, essay (30%); Library workshops, drug information technology practicals, community pharmacy visit report (pass/fail).


**Offered in Courses:** [M3F]

### CSA155 - Pharmaceutical Science and Practice 1A

**Description:** An introduction to pharmacy practice and drug disposition. The unit studies the basic principles of:
- Dosage form design and formulation;
- Extemporaneous preparation of dosage forms;
- Dispensing;
- Pharmaceutical calculations;
- Pharmaceutical analysis;
- Drug disposition including absorption, distribution, metabolism and excretion;
- Communication skills.

**Requisites:** PREREQ - admission to Pharmacy COREQ - CSA156

**Staff:** Mrs S Holmes (Coordinator), Prof S McLean, Dr S Aldous, Ms V Ford

**Teaching Pattern:** 3 hrs lectures/tutorials weekly in sem 1;
3 - 6 hrs practical weekly in sem 1 , including practical classes in extemporaneous dispensing, pharmacy practice, volumetric analysis and pharmacology

**Assessment:** Practical assessment (20%), semester 1 exam (40%), semester 2 exam (40%); Students must perform satisfactorily in all elements of the unit to pass

Essential equipment includes a clean, white lab coat and Australian Standards safety glasses.

Stedmans Concise Medical Dictionary. ISBN 0-7817-3012-0

**Offered in Courses:** [M3F]

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**Units Coded C – Faculty of Health Science**

**Raw Text:**

- Report (10%), Pharmacy Practice Seminar (10%), Essay (10%), 2 Hour formal examination (November) (25%), (based on the pharmacy specific lectures from CSA101 and CSA102, conducted by staff of the School of Pharmacy and visiting speakers.), Statistics Modules (20%).

**Offered in Courses:** [M3F]

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<tr>
<td>Unit</td>
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**Course Notes:**

### CSA155 - Pharmaceutical Science and Practice 1A

**Special Note:** On completion of CSA155 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA155 and CSA156.

**Description:** An introduction to pharmacy practice and drug disposition. The unit studies the basic principles of:
- Dosage form design and formulation;
- Extemporaneous preparation of dosage forms;
- Dispensing;
- Pharmaceutical calculations;
- Pharmaceutical analysis;
- Drug disposition including absorption, distribution, metabolism and excretion;
- Communication skills.

**Requisites:** PREREQ - admission to Pharmacy COREQ - CSA156

**Staff:** Mrs S Holmes (Coordinator), Prof S McLean, Dr S Aldous, Ms V Ford

**Teaching Pattern:** 3 hrs lectures/tutorials weekly in sem 1;
3 - 6 hrs practical weekly in sem 1 , including practical classes in extemporaneous dispensing, pharmacy practice, volumetric analysis and pharmacology

**Assessment:** Practical assessment (20%), semester 1 exam (40%), semester 2 exam (40%); Students must perform satisfactorily in all elements of the unit to pass

Essential equipment includes a clean, white lab coat and Australian Standards safety glasses.

Stedmans Concise Medical Dictionary. ISBN 0-7817-3012-0

**Offered in Courses:** [M3F]
CSA155 - Pharmaceutical Science and Practice 1B

**Special Note:** On completion of CSA155 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA156. Students are required to enrol concurrently in CSA155 and CSA156.

**Description:** An introduction to pharmacy practice and drug disposition. The unit studies the basic principles of:
- Dosage form design and formulation;
- Extemporaneous preparation of dosage forms;
- Dispensing;
- Pharmaceutical calculations;
- Pharmaceutical analysis;
- Drug disposition including absorption, distribution, metabolism and excretion;
- Communication skills.

**Requisites:** PREREQ - admission to Pharmacy COREQ - CSA155

**Staff:** Mrs S Holmes (Coordinator), Prof S McLean, Dr S Aldous, Ms V Ford

**Teaching Pattern:** 4 hrs lectures/tutorials weekly in sem 2;
3 - 6 hrs practical weekly in sem 2, including practical classes in extemporaneous dispensing, pharmacy practice, volumetric analysis and pharmacology

**Assessment:** Practical assessment (20%), semester 1 exam (40%), semester 2 exam (40%);
Students must perform satisfactorily in all elements of the unit to pass

**Required Texts:**
- Essential equipment includes a clean, white lab coat and Australian Standards safety glasses.

**Recommended Texts:**
- Ansel HC et al, Pharmaceutical Dosage Forms and Drug Delivery Systems, 8th edn, ISBN 0683305727
- Birkett DJ, Pharmacokinetics Made Easy. ISBN 0074710729
- Stedmans Concise Medical Dictionary. ISBN 0-7817-3012-0

**Offered in Courses:** [ M3F ]

**Unit Delivery Information:**

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CSA201 - Pharmacology (Unit not offered in 2006)

**Description:** Provides an introduction to the study of drugs: chemicals which affect living systems. General principles of drug action and drug disposition, including pharmacokinetics, are outlined. The major part of the unit consists of a detailed account of the major classes of drugs. These include drugs affecting the autonomic nervous system, cardiovascular system and central nervous system; chemical mediators, pain and inflammation; and endocrines. (Chemotherapeutic agents are not covered in this unit.) Emphasis is given to therapeutic applications. The practical course gives experience in measuring drug responses in humans. Tutorial topics include ethical issues in animal and human experimentation, and the development and evaluation of new drugs.

**Requisites:** PREREQ - KRA160, CHG101 COREQ - CBA220

**Staff:** Prof S McLean (Coordinator), Mr G Taylor

**Teaching Pattern:** 2x1-hr lectures, 1-hr tutorial weekly (26 wks), 12x3-hr lab sessions in sem 1; introduction to hospital-based clinical teaching in sem 2 (12 hrs)

**Assessment:**
- clinical rounds assessment (10%), semester 1 test (10%), 3-hr exam in June (35%), 3-hr exam in Oct (45%)

**Required Texts:**
- Either Rang HP, Dale MM & Ritter JM, Pharmacology, ISBN 0443059942
- or Katzung BG (ed), Basic and Clinical Pharmacology, ISBN 0838505651

**Recommended Texts:**
- Birkett DJ, Pharmacokinetics Made Easy, ISBN 0074706098

**Offered in Courses:** [ M3F ]

CSA202 - Pharmacology

**Special Note:** Student places for this unit are limited by the availability of laboratory spaces for practicals.

**Description:** Provides an introduction to the study of drugs: chemicals which affect living systems. General principles of drug action and drug disposition, including pharmacokinetics, are outlined. The major part of the unit consists of a detailed account of the major classes of drugs. These include drugs affecting the autonomic nervous system, cardiovascular system and central nervous system; chemical mediators, pain and inflammation; and endocrines. (Chemotherapeutic agents are not covered in this unit.) Emphasis is given to therapeutic applications. The practical course gives experience in a variety of pharmacological experiments. Tutorial topics include ethical issues in animal and human experimentation, and the development and evaluation of new drugs.

**Requisites:** PREREQ - ( CHG100 or KZA150) and ( KRA110 or equiv)

**Staff:** Prof S McLean (Coordinator)

**Teaching Pattern:** 2x1-hr lectures weekly, 13 hrs tutorials, 18 hrs practicals (26 wks)

**Assessment:**
- Semester 1 test (10%), 3-hr exam in June (45%), 3-hr exam in Oct (35%) practical assignment (10%)

**Required Texts:**
- Either Rang HP, Dale MM & Ritter JM, Pharmacology, ISBN 0443059942
- or Katzung BG (ed), Basic and Clinical Pharmacology, ISBN 0838505651

**Recommended Texts:**
- Birkett DJ, Pharmacokinetics Made Easy, ISBN 0074706098

**Offered in Courses:** [ M3F ]

**Unit Delivery Information:**

University of Tasmania, Unit Guide 2006  www.utas.edu.au/units/  512
CSA225 - Medicinal Chemistry

Description: A study of chemical structure as a determinant of both the physicochemical properties and biological activity (including metabolic fate) of drug molecules of both synthetic and natural origin. The application of such principles to the design and production of new drug entities is also examined.

Requisites: PREREQ - KRA160, CSA115, CHG101 COREQ - KRA262

Staff: Dr S Aldous

Teaching Pattern: 26 lectures, 2x6-hr practical exercises, 4 tutorials

Assessment: 3 x 1-hr assessments held during sem 2

Required Texts: Essential equipment includes a clean, white lab coat and Australian Standards safety glasses.

Recommended Texts: One of the following texts:

Offered in Courses: [M3F]

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CSA226 - Medicinal Chemistry

Description: Covers the same broad grounds as CSA225.

Staff: Dr S Aldous

Teaching Pattern: 26 lectures, 2x6-hr practical exercises, 4 tutorials

Assessment: 3 x 1-hr assessments held during sem 2

Required Texts: Essential equipment includes a clean, white lab coat and Australian Standards safety glasses.

Recommended Texts: One of the following texts:

Offered in Courses: [M6E] [M7E]

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CSA227 - Medicinal Chemistry in Pharmacy

Description: Covers the same broad grounds as CSA225.

Requisites: COREQ - KRA210

Staff: Dr S Aldous

Teaching Pattern: 26 lectures, 2x6-hr practical exercises, 4 tutorials

Assessment: 3 x 1-hr assessments held during sem 2

Required Texts: Essential equipment includes a clean, white lab coat and Australian Standards safety glasses.

Recommended Texts: One of the following texts:

Offered in Courses: [S3G] [S3V] [M3M]

Unit Delivery Information:

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CSA230 - Pharmacology

Description:

Requisites: PREREQ - KRA160, CHG101 COREQ - CBA220, CSA230, CSA231

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# CSA231 - Pharmacology

**Special Note:** Students are required to enrol concurrently in CSA230 and CSA231

**Description:** The major part of the unit consists of a detailed account of selected major classes of drugs. These include drugs affecting the central nervous system; chemical mediators, pain and inflammation; and endocrines. Emphasis is given to therapeutic applications. Tutorial topics include the development and evaluation of new drugs.

**Requisites:** PREREQ - KRA160, CHG101 COREQ - CBA220, CSA230

**Staff:** Prof S McLean (Coordinator), Mr G Taylor, Assoc Prof W Friesen

**Teaching Pattern:** 26x1-hr lectures, 13 x1-hr tutorials, introduction to hospital-based clinical teaching (12 hrs)

**Assessment:** clinical rounds assessment (10%), 3-hr exam in Oct (90%)

**Required Texts:** Either Rang HP, Dale MM & Ritter JM, Pharmacology, ISBN 0443059942

or
Katzung BG (ed), Basic and Clinical Pharmacology, ISBN 0838505651

Essential equipment includes a clean, white lab coat and Australian Standards safety glasses.

**Offered in Courses:** [ M3F ]

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# CSA232 - Pharmacology

**Special Note:** based on CSA234

**Description:** Provides an introduction to the study of drugs: chemicals which affect living systems. General principles of drug action and drug disposition, including pharmacokinetics, are outlined. The major part of the unit consists of a detailed account of selected major classes of drugs. These include drugs affecting the autonomic nervous system and cardiovascular system as well as chemical mediators of pain and inflammation; Emphasis is given to therapeutic applications. The practical course gives experience in measuring drug responses in humans. Tutorial topics include ethical issues in animal and human experimentation.

**Requisites:** PREREQ - (CHG100 or KZA150) and (KRA110 or equiv)

**Staff:** Prof S McLean (Coordinator)

**Teaching Pattern:** 26x1-hr lectures weekly, 13x1 hr tutorials, 3x3-hr lab sessions

**Assessment:** Mid-semester exam (10%), 3-hr exam in June (80%).

**Required Texts:** Either Rang HP, Dale MM & Ritter JM, Pharmacology, ISBN 0443059942

or
Katzung BG (ed), Basic and Clinical Pharmacology, ISBN 0838505651

Essential equipment includes a clean, white lab coat and Australian Standards safety glasses.

**Offered in Courses:** [ S3G ] [ S3V ] [ M3M ]

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## Unit Delivery Information:

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# CSA233 - Pharmacology

**Special Note:** based on CSA235

**Description:** The major part of the unit consists of a detailed account of selected major classes of drugs. These include drugs affecting the central nervous system; chemical mediators, pain and inflammation; and endocrines. Emphasis is given to therapeutic applications. Tutorial topics include the development and evaluation of new drugs.

**Requisites:** PREREQ - (CHG100 or KZA150) and (KRA110 or equiv)

**Staff:** Prof S McLean (Coordinator)

**Teaching Pattern:** 26x1-hr lectures weekly, 13x1-hr tutorials

**Assessment:** practical assignment or literature review (10%), 3-hr exam in Oct (90%)  

**Required Texts:** Either Rang HP, Dale MM & Ritter JM, Pharmacology, ISBN 0443059942

or
Katzung BG (ed), Basic and Clinical Pharmacology, ISBN 0838505651

Essential equipment includes a clean, white lab coat and Australian Standards safety glasses.

**Offered in Courses:** [ S3G ] [ S3V ] [ M3M ]

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## Unit Delivery Information:

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# CSA234 - Pharmacology

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Special Note: based on CSA230 Students are required to enrol concurrently in CSA234 and CSA235

Description: Provides an introduction to the study of drugs: chemicals which affect living systems. General principles of drug action and drug disposition, including pharmacokinetics, are outlined. The major part of the unit consists of a detailed account of selected major classes of drugs. These include drugs affecting the autonomic nervous system and cardiovascular system as well as chemical mediators of pain and inflammation; Emphasis is given to therapeutic applications. The practical course gives experience in measuring drug responses in humans. Tutorial topics include ethical issues in animal and human experimentation. On completion of this unit students receive a XX (results shown in another unit) result. The final result for this unit is granted on completion of CSA235.

Requisites: MEXCL - CSA230, CSA231, CSA233

Staff: Prof S McLean (Coordinator)

Teaching Pattern: 26x1-hr lectures weekly, 13x1 hr tutorials, 6x3-hr lab sessions

Assessment: Mid-semester exam (20%), 3-hr exam in June (80%). On completion of this unit students receive a XX (results shown in another unit) result. The final result for this unit is granted on completion of CSA235.


Essential equipment includes a clean, white lab coat and Australian Standards safety glasses.

Recommended Texts: Birkett DJ, Pharmacokinetics Made Easy, ISBN 0074706098

Offered in Courses: [ M7E ] [ M6E ]

Unit Delivery Information:

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CSA235 - Pharmacology

Special Note: based on CSA232 Students are required to enrol concurrently in CSA234 and CSA235

Description: The major part of the unit consists of a detailed account of selected major classes of drugs. These include drugs affecting the central nervous system; chemical mediators, pain and inflammation; and endocrines. Emphasis is given to therapeutic applications. Tutorial topics include the development and evaluation of new drugs.

Requisites: MEXCL - CSA230, CSA231, CSA232, CSA233

Staff: Prof S McLean (Coordinator)

Teaching Pattern: 26x1-hr lectures weekly, 13x1-hr tutorials

Assessment: practical assignment or literature review (10%), 3-hr exam in Oct (90%)


Essential equipment includes a clean, white lab coat and Australian Standards safety glasses.

Offered in Courses: [ M6E ] [ M7E ]

Unit Delivery Information:

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CSA255 - Pharmaceutical Science and Practice 2A

Special Note: On completion of CSA255 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA256. Students are required to enrol concurrently in CSA255 and CSA256.

Description: Has two streams: (1) physicochemical principles and (2) professional practice.

The first of these involves study of the physicochemical principles which are important in the design of dosage forms and other pharmaceutical systems and the application of these principles to practice, particularly in the development of an understanding of the relationship between pharmaceutical formulation and therapeutic activity. The content of this unit includes physicochemical factors such as dissociation and ionisation, solubility, partitioning, surface activity (including emulsification and solubilisation), decomposition kinetics, adsorption, rheology, micromiretics and the use of non-oral drug delivery systems. An overview of pharmacogenomics and an introduction to the pharmacological industry is also included.

In the professional practice stream, students are first introduced to more advanced extemporaneous dispensing issues. Legal aspects of pharmacy practice, prescription drug use, patient counselling and a range of professional issues are covered later in the year.

Requisites: PREREQ - KRA160, CSA115 COREQ - CSA256

Staff: Dr G Jacobson (Coordinator), Dr S Aldous, Dr R Rumble, Mrs S Holmes

Teaching Pattern: 3x1-hr weekly (13 wks); 10x3-hr extemporaneous dispensing and 10x5-hr instrumental analysis and physical pharmacy practicals alternating weeks (13 wks)

Assessment: physicochemical stream: June exam (15%), Nov exam (35%), extemporaneous dispensing: practical exams: sem 1 (15%), sem 2 (15%), practical reports (20%); instrumental analysis and physical pharmacy practicals (pass/fail); students must pass all the above. It is a requirement that to pass CSA255 and CSA256, students must pass both the physicochemical and professional practice streams. Failure to pass both streams may result in a fail grade with no mark being awarded if the aggregate mark for both streams is greater than 50%.


Essential equipment includes a clean, white lab coat and Australian Standards safety glasses.

Offered in Courses: [ M3F ]

Unit Delivery Information:

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CSA256 - Pharmaceutical Science and Practice 2B

**Special Note:** On completion of CSA255 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA256. Students are required to enrol concurrently in CSA255 and CSA256.

**Description:** Has two streams: (1) physicochemical principles and (2) professional practice. The first of these involves study of the physicochemical principles which are important in the design of dosage forms and other pharmaceutical systems and the application of these principles to practice, particularly in the development of an understanding of the relationship between pharmaceutical formulation and therapeutic activity. The content of this unit includes physicochemical factors such as dissociation and ionisation, solubility, partitioning, surface activity (including emulsification and solubilisation), decomposition kinetics, adsorption, rheology, micrometrics and the use of non-oral drug delivery systems. An overview of pharmacogenomics and an introduction to the pharmaceutical industry is also included.

In the professional practice stream, students are first introduced to more advanced extemporaneous dispensing issues. Legal aspects of pharmacy practice, prescription drug use, patient counselling and a range of professional issues are covered later in the year.

**Requisites:** PREREQ - KRA160, CSA115 COREQ - CSA255

**Staff:** Dr G Jacobson (Coordinator), Dr S Aldous, Dr R Rumble, Mrs S Holmes

**Teaching Pattern:** 3x1-hr weekly (13 wks); 10x3-hr extemporaneous dispensing and 10x5-hr instrumental analysis and physical pharmacy practicals alternating weeks (13 wks)

**Assessment:** physicochemical stream: June exam (15%), Nov exam (35%), extemporaneous dispensing: practical exams: sem 1 (15%), sem 2 (15%), practical reports (20%); instrumental analysis and physical pharmacy practicals (pass/fail); students must pass all the above. It is a requirement that to pass CSA215, students must pass both the physicochemical and professional practice streams. Failure to pass both streams may result in a fail grade with no mark being awarded if the aggregate mark for both streams is greater than 50%.

**Required Texts:** Martin A, Physical Pharmacy, 4th edn, Lea and Febiger, 1993


**Offered in Courses:** [ M3F ]

**Unit Delivery Information:**

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CSA257 - Pharmaceutical Science A

**Special Note:** CSA255 without pharmacy practice stream. On completion of CSA257 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA258. Students are required to enrol concurrently in CSA257 and CSA258.

**Description:** Pharmaceutical Science involves the study of physicochemical principles which are important in the design of dosage forms and other pharmaceutical systems and the application of these principles to practice, particularly in the development of an understanding of the relationship between pharmaceutical formulation and therapeutic activity, including pharmacogenomics. The content of this unit includes physicochemical factors such as dissociation and ionisation, solubility, partitioning, surface activity (including emulsification and solubilisation), decomposition kinetics, adsorption, rheology, micrometrics, and the use of non-oral drug delivery systems. An overview of pharmacogenomics and an introduction to the pharmaceutical industry is also included.

**Requisites:** MEXCL - CSA255 COREQ - CSA258

**Staff:** Dr G Jacobson (Coordinator), Dr S Aldous, Dr R Rumble, Prof G Peterson, Mrs S Holmes

**Teaching Pattern:** 3x1-hr lectures weekly; (13 weeks); 5x3-hr formulation practicals, and 10x5-hr practicals (physical pharmacy and instrumental analysis) alternating weeks (13 wks)

**Assessment:** physicochemical stream: June exam (30%), Nov exam (60%); formulation practicals (10%), physical pharmacy and instrumental analysis practical (pass/fail); students are required to pass the last mentioned item. It is a requirement that to pass CSA255 and CSA256, students must pass both the physicochemical and professional practice streams. Failure to pass both streams may result in a fail grade with no mark being awarded if the aggregate mark for both streams is greater than 50%.

**Required Texts:** Martin A, Physical Pharmacy, 4th edn, Lea and Febiger, 1993


**Offered in Courses:** [ M6E ] [ M7E ]

**Unit Delivery Information:**

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CSA258 - Pharmaceutical Science B

**Special Note:** CSA255 without pharmacy practice stream. On completion of CSA257 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA258. Students are required to enrol concurrently in CSA257 and CSA258.

**Description:** Pharmaceutical Science involves the study of physicochemical principles which are important in the design of dosage forms and other pharmaceutical systems and the application of these principles to practice, particularly in the development of an understanding of the relationship between pharmaceutical formulation and therapeutic activity, including pharmacogenomics. The content of this unit includes physicochemical factors such as dissociation and ionisation, solubility, partitioning, surface activity (including emulsification and
CSA256, students must pass both the physicochemical and professional practice streams. Failure to pass both streams may result in a fail.

**Requisites:** MEXCL - CSA256 COREQ - CSA257

**Staff:** Dr G Jacobson (Coordinator), Dr S Aldous, Dr R Rumble, Prof G Peterson, Mrs S Holmes

**Teaching Pattern:** 3x1-hr lectures weekly; (13 weeks); 5x3-hr formulation practicals, and 10x5-hr practicals (physical pharmacy and instrumental analysis) alternating weeks (13 wks)

**Assessment:** physicochemical stream: June exam (30%), Nov exam (60%), formulation practicals (10%), physical pharmacy and instrumental analysis practical (pass/fail); students are required to pass the last mentioned item. It is a requirement that to pass CSA255 and CSA256, students must pass both the physicochemical and professional practice streams. Failure to pass both streams may result in a fail grade with no mark being awarded if the aggregate mark for both streams is greater than 50%.


**Essential equipment** includes a clean, white lab coat and Australian Standards safety glasses.

**Offered in Courses:** [ M6E ] [ M7E ]

**Unit Delivery Information:**

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**CSA301 - Research in Pharmacy A**

**Special Note:** Integrated honours course (M4F) students enrol in CSA301 and CSA302 in year 3; non-honours (M3F) students enrol in *CSA401 and CSA402 in year 4. On completion of CSA301 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA302. Students are required to enrol concurrently in CSA301 and CSA302.

**Description:** Students undertake the planning of a research project on a subject of their own choice. This may consist of a drug use review, literature survey or other appropriate activity. Instruction in research design and report writing is given. A written report of 5,000 words on the project undertaken is required.

**Requisites:** PREREQ - all yr-3 BPharm units or acceptance of candidature for BPharm(Hons) COREQ - CSA302

**Staff:** Dr S Aldous (Coordinator), and all other academic staff of Tasmanian School of Pharmacy

**Teaching Pattern:** an average of 3 hrs weekly is allocated for students to work independently on their project

**Assessment:** written report and seminar exam (100%)

**Offered in Courses:** [ M3F ] [ M4F ]

**Unit Delivery Information:**

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**CSA302 - Research in Pharmacy B**

**Special Note:** Integrated honours course (M4F) students enrol in CSA301 and CSA302 in year 3; non-honours (M3F) students enrol in *CSA401 and CSA402 in year 4. On completion of CSA301 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA302. Students are required to enrol concurrently in CSA301 and CSA302.

**Description:** Students undertake the planning of a research project on a subject of their own choice. This may consist of a drug use review, literature survey or other appropriate activity. Instruction in research design and report writing is given. A written report of 5,000 words on the project undertaken is required.

**Requisites:** PREREQ - all yr-3 BPharm units or acceptance of candidature for BPharm(Hons) COREQ - CSA301

**Staff:** Dr S Aldous (Coordinator), and all other academic staff of Tasmanian School of Pharmacy

**Teaching Pattern:** an average of 3 hrs weekly is allocated for students to work independently on their project

**Assessment:** written report and seminar exam (100%)

**Offered in Courses:** [ M3F ] [ M4F ]

**Unit Delivery Information:**

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**CSA305 - Therapeutics 3A**

**Special Note:** On completion of CSA305 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA306. Students are required to enrol concurrently in CSA305 and CSA306.

**Description:** A study of therapeutic principles to form a basis for developing clinical knowledge and skills in the delivery of pharmaceutical care. The course material, incorporating directed and self-directed case studies, is designed to develop an understanding of disease states as a preface to a study of clinical pharmacology and therapeutic principles in their management.

Topics include: disease processes and therapeutic principles in the management of diseases involving the following systems; respiratory, cardiovascular, blood, endocrine, neurological, renal, musculoskeletal and gastrointestinal, as well as more complex multiple disease states.

Unit objective: to develop an understanding of disease processes and therapeutic principles in the study of the management of common conditions; emphasis is also placed on the complexities of multiple disease states and approaches to therapeutic decision making in clinical situations. Particular emphasis is placed on preparing the student for participation in clinical pharmacy teaching rounds. Students present a seminar based on these rounds.

**Requisites:** PREREQ - all year-2 BPharm units COREQ - CSA306

**Staff:** Assoc Prof W Friesen (Coordinator), Prof G Peterson, Dr R Rumble

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University of Tasmania, Unit Guide 2006  www.utas.edu.au/units/  517
Teaching Pattern: 3 hrs lectures/seminars weekly
Assessment: 3-hr exam in June (45%), 3-hr exam in Nov (45%), seminar presentation (10%)
Recommended Texts: A set of printed course material
- Analgesic Guidelines, latest edn
- Antibiotic Guidelines, latest edn
- Cardiovascular Guidelines, latest edn
- Gastrointestinal Guidelines, latest edn
- Neurology Guidelines, latest edn
- Psychotropic Guidelines, latest edn
- Respiratory Guidelines, latest edn
- Endocrinology Guidelines, latest edn
- Therapeutic Guidelines Limited

Offered in Courses: [M3F]

Unit Delivery Information:

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CSA306 - Therapeutics 3B

Special Note: On completion of CSA305 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA306. Students are required to enrol concurrently in CSA305 and CSA306.

Description: A study of therapeutic principles to form a basis for developing clinical knowledge and skills in the delivery of pharmaceutical care. The course material, incorporating directed and self-directed case studies, is designed to develop an understanding of disease states as a preface to a study of clinical pharmacology and therapeutic principles in their management.

Topics include: disease processes and therapeutic principles in the management of diseases involving the following systems; respiratory, cardiovascular, blood, endocrine, neurological, renal, musculoskeletal and gastrointestinal, as well as more complex multiple disease states.

Unit objective: to develop an understanding of disease processes and therapeutic principles in the study of the management of common conditions; emphasis is also placed on the complexities of multiple disease states and approaches to therapeutic decision making in clinical situations. Particular emphasis is placed on preparing the student for participation in clinical pharmacy teaching rounds. Students present a seminar based on these rounds.

Requisites: PREREQ - all year-2 BPharm units COREQ - CSA305
Staff: Assoc Prof W Friesen (Coordinator), Prof G Peterson, Dr R Rumble

Teaching Pattern: 3 hrs lectures/seminars weekly
Assessment: 3-hr exam in June (45%), 3-hr exam in Nov (45%), seminar presentation (10%)

Recommended Texts: A set of printed course material
- Analgesic Guidelines, latest edn
- Antibiotic Guidelines, latest edn
- Cardiovascular Guidelines, latest edn
- Gastrointestinal Guidelines, latest edn
- Neurology Guidelines, latest edn
- Psychotropic Guidelines, latest edn
- Respiratory Guidelines, latest edn
- Endocrinology Guidelines, latest edn
- Therapeutic Guidelines Limited

Offered in Courses: [M3F]

Unit Delivery Information:

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CSA311 - Clinical Pharmacokinetics 3

Description: Studies the factors influencing the bioavailability and disposition of drugs, and the application of this information to optimise the therapeutic usefulness of drugs in clinical practice. Particular emphasis is placed on the clinical role of the pharmacist in improving the use of drugs through the practical application of pharmacokinetics. The subject also includes an overview of statistics in health sciences.

Topics include: formulation factors and therapeutic activity; route of administration and bioavailability; developments in drug delivery; estimating drug dosage requirements in clinical practice; therapeutic drug monitoring; drug interactions; an overview of sources of inter-patient variability in pharmacokinetics (eg extremes of age, renal disease, pharmacogenomics); clinical case studies and pharmacokinetics of specific drugs.

Unit objective: to develop a good practical knowledge and understanding of pharmacokinetics through the use of lecture material, practical exercises and problems. A key aim is to develop the ability to logically apply relatively simple pharmacokinetic principles in everyday clinical pharmacy practice. This is achieved through the extensive use of clinically-oriented problems.

Requisites: PREREQ - all year-2 BPharm units
Staff: Prof G Peterson

University of Tasmania, Unit Guide 2006  www.utas.edu.au/units/
**CSA311 - Clinical Pharmacokinetics**

**Description:** Covers the same broad grounds as CSA311.

**Staff:** Prof G Peterson

**Teaching Pattern:** 4x1-hr lectures weekly

**Assessment:** 3-hr exam in Nov (100%)

**Required Texts:** Birkett DJ, *Australian Prescriber’s Pharmacokinetics Made Easy*, ISBN 0074706098
Sharpley L (c/o ABC), *Applied Biopharmaceutics and Pharmacokinetics*, 4th edn, ISBN 0839502784

**Offered in Courses:** [ M3F ] [ S3V ]

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**CSA312 - Clinical Pharmacokinetics**

**Description:** Studies the factors influencing the bioavailability and disposition of drugs, and the application of this information to optimise the therapeutic usefulness of drugs in clinical practice. Particular emphasis is placed on the clinical role of the pharmacist in improving the use of drugs through the practical application of pharmacokinetics. The subject also includes an overview of statistics in health sciences.

Topics include: formulation factors and therapeutic activity; route of administration and bioavailability; developments in drug delivery; estimating drug dosage requirements in clinical practice; therapeutic drug monitoring; drug interactions; an overview of sources of inter-patient variability in pharmacokinetics (e.g., extremes of age, renal disease, pharmacogenomics); clinical case studies and pharmacokinetics of specific drugs.

**Unit objective:** to develop a good practical knowledge and understanding of pharmacokinetics through the use of lecture material, practical exercises and problems. A key aim is to develop the ability to logically apply relatively simple pharmacokinetic principles in everyday clinical pharmacy practice. This is achieved through the extensive use of clinically-oriented problems.

**Requisites:** PREREQ - CSA202, CSA206

**Staff:** Prof G Peterson

**Teaching Pattern:** 4x1-hr lectures weekly

**Assessment:** 3-hr exam in Nov (100%)

**Required Texts:** Birkett DJ, *Australian Prescriber’s Pharmacokinetics Made Easy*, ISBN 0074706098
Sharpley L (c/o ABC), *Applied Biopharmaceutics and Pharmacokinetics*, 4th edn, ISBN 0839502784

**Offered in Courses:** [ M6E ] [ M7E ]

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**CSA313 - Toxicology**

**Description:** This is the study of the harmful effects of chemicals (including drugs) and other agents. Studies cover general principles of toxicology, mechanisms of toxicity, systematic toxicology and toxic agents.

**Requisites:** PREREQ - all yr-2 BPharm units

**Staff:** Prof S McLean (Coordinator), Dr S Aldous

**Teaching Pattern:** 32 lectures

**Assessment:** 3-hr exam in June (100%)


**Offered in Courses:** [ S3G ] [ S3V ] [ M3M ]

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**CSA331 - Toxicology**

**Description:** This the study of the harmful effects of chemicals (including drugs) and other agents. Studies cover general principles of toxicology, mechanisms of toxicity, systematic toxicology and toxic agents.

**Requisites:** PREREQ - all yr-2 BPharm units

**Staff:** Prof S McLean (Coordinator), Dr S Aldous

**Teaching Pattern:** 32 lectures

**Assessment:** 3-hr exam in June (100%)


**Offered in Courses:** [ M3F ] [ S3V ]

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**CSA332 - Toxicology**

**Description:** This the study of the harmful effects of chemicals (including drugs) and other agents. Studies cover general principles of toxicology, mechanisms of toxicity, systematic toxicology and toxic agents.

**Staff:** Prof S McLean (Coordinator), Dr S Aldous

**Teaching Pattern:** 32 lectures
Assessment: 3-hr exam in June (100%)


Offered in Courses: [ M6E ] [ M7E ]

Unit Delivery Information:

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**CSA333 - Toxicology**

Description: Is the study of the harmful effects of chemicals (including drugs) and other agents. Studies cover general principles of toxicology, mechanisms of toxicity, systematic toxicology and toxic agents.

Requisites: PREREQ - Chemistry KRA110 or equivalent and Biology CHG100 or KZA150 or equivalent

Staff: Prof S McLean (coordinator), Dr S Aldous

Teaching Pattern: 32 lectures

Assessment: 3-hr exam (100%)


Offered in Courses: [ S3G ] [ S3V ] [ M3M ]

Unit Delivery Information:

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**CSA340 - Chemotherapy and Infection**

Special Note: Offered subject to sufficient enrolment numbers. On completion of CSA340 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA341. Students are required to enrol concurrently in CSA340 and CSA341.

Description: A study of the basic principles of immunopathology, antimicrobial chemotherapy and biotherapy followed by a study of infectious disease therapeutics topics, using case studies.

Topics include: immunopathology and inflammation, antimicrobial/antiparasitic chemotherapy and clinical topics in infectious disease, incorporating directed and self-directed case studies.

Unit objective: to develop a good practical knowledge of chemotherapy and biotherapy and their application to an understanding of the nature and management of infectious conditions. Emphasis is also placed on preparing the student for participation in clinical pharmacy teaching rounds.

Requisites: PREREQ - all yr-2 BPharm units COREQ - CSA341

Staff: Assoc Prof W Friesen (Coordinator), Dr S Aldous, Dr R Rumble

Teaching Pattern: 2x1-hr lectures/seminars weekly

Assessment: 2-hr exam in June (50%), 2-hr exam in Nov (50%)

Required Texts: A set of printed course material

Antibiotic Guidelines, latest edn, Therapeutic Guidelines Limited.

Offered in Courses: [ M3F ]

Unit Delivery Information:

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**CSA341 - Chemotherapy and Infection**

Special Note: Offered subject to sufficient enrolment numbers. On completion of CSA340 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA341. Students are required to enrol concurrently in CSA340 and CSA341.

Description: A study of the basic principles of antimicrobial chemotherapy and biotherapy followed by a study of infectious disease therapeutics topics, using case studies.

Topics include: antimicrobial/antiparasitic chemotherapy and clinical topics in infectious disease, incorporating directed and self-directed case studies.

Unit objective: to develop a good practical knowledge of chemotherapy and biotherapy and their application to an understanding of the nature and management of infectious conditions. Emphasis is also placed on preparing the student for participation in clinical pharmacy teaching rounds.

Requisites: PREREQ - CJA211 or equivalent COREQ - CSA341

Staff: Assoc Prof W Friesen (Coordinator), Dr S Aldous, Dr R Rumble

Teaching Pattern: 2x1-hr lectures/seminars weekly

Assessment: 2-hr exam in June (50%), 2-hr exam in Nov (50%)

Required Texts: A set of printed course material

Antibiotic Guidelines, latest edn, Therapeutic Guidelines Limited.

Offered in Courses: [ M3F ]

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**CSA342 - Chemotherapy and Infection**

**Special Note:** Offered subject to sufficient enrolment numbers. On completion of CSA342 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA343. Students are required to enrol concurrently in CSA342 and CSA343.

**Description:** A study of the basic principles of antimicrobial chemotherapy and biotherapy followed by a study of infectious disease therapeutic topics, using case studies.

Topics include: antimicrobial/antiparasitic chemotherapy and clinical topics in infectious disease, incorporating directed and self-directed case studies.

Unit objective: to develop a good practical knowledge of chemotherapy and biotherapy and their application to an understanding of the nature and management of infectious conditions. Emphasis is also placed on preparing the student for participation in clinical pharmacy teaching rounds.

**Requisites:** PREREQ - CJA211 or equivalent COREQ - CSA343

**Staff:** Assoc Prof W Friesen (Coordinator), Dr S Aldous, Dr R Rumble

**Teaching Pattern:** 2x1-hr lectures/seminars weekly

**Assessment:** 2-hr exam in June (50%), 2-hr exam in Nov (50%)

**Required Texts:** A set of printed course material

Antibiotic Guidelines, latest edn, Therapeutic Guidelines Limited.

**Offered in Courses:** [ S3V ] [ M3M ]

**Unit Delivery Information:**

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**CSA343 - Chemotherapy and Infection**

**Special Note:** Offered subject to sufficient enrolment numbers. On completion of CSA342 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA343. Students are required to enrol concurrently in CSA342 and CSA343.

**Description:** A study of the basic principles of antimicrobial chemotherapy and biotherapy followed by a study of infectious disease therapeutic topics, using case studies.

Topics include: antimicrobial/antiparasitic chemotherapy and clinical topics in infectious disease, incorporating directed and self-directed case studies.

Unit objective: to develop a good practical knowledge of chemotherapy and biotherapy and their application to an understanding of the nature and management of infectious conditions. Emphasis is also placed on preparing the student for participation in clinical pharmacy teaching rounds.

**Requisites:** PREREQ - CJA211 or equivalent COREQ - CSA343

**Staff:** Assoc Prof W Friesen (Coordinator), Dr S Aldous, Dr R Rumble

**Teaching Pattern:** 2x1-hr lectures/seminars weekly

**Assessment:** 2-hr exam in June (50%), 2-hr exam in Nov (50%)

**Required Texts:** A set of printed course material

Antibiotic Guidelines, latest edn, Therapeutic Guidelines Limited.

**Offered in Courses:** [ S3V ] [ M3M ]

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**CSA351 - Clinical Pharmacy Residency 3A**

**Special Note:** On completion of CSA351 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA352. Students are required to enrol concurrently in CSA351 and CSA352.

**Description:** A clinical teaching program; students are rostered, either in small groups or individually, to attend various teaching sites in hospitals and community pharmacies throughout the state. Clinical teaching activities include ward rounds during both semesters with case studies, tutorials, patient interviews and counselling. Three block teaching rosters over two semesters include one week of each of hospital pharmacy practice, community pharmacy practice and a rural placement.

Lectures include: medication chart review and medical record interpretation, application of laboratory data to clinical pharmacy, principles of clinical pharmacy practice, communication skills.

Unit objectives: to develop clinical pharmacy skills by studying patient records, patient interviews, interpreting data and evaluating drug therapy decision making processes; identifying and resolving drug-related issues; development of communication and patient counselling skills.

**Requisites:** PREREQ - all yr-2 BPharm units COREQ - CSA323, CSA325, CSA311, CSA352

**Staff:** Mr G Taylor, Mr C Randall (Coordinators), Assoe Prof W Friesen, Dr R Rumble, Mr P Keefe, Mr J Fitch (Launceston General Hospital), Mrs M Howarth (Rural Pharmacy), Ms S Seaton, Ms A Roberts (North-West Regional Hospital)

**Teaching Pattern:** 2-hr lecture weekly; rostered hospital rounds; 2 wks in community and hospital pharmacy practice sites

**Assessment:** 3-hr exam in June (30%), 3-hr exam in Nov (50%), clinical case reports, seminars (20%)
Recommended Texts: Antibiotic Guidelines, latest edn, Therapeutic Guidelines Limited
Australian Medicines Handbook, latest edn.

Offered in Courses: [ M3F ]

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CSA352 - Clinical Pharmacy Residency 3B

Special Note: On completion of CSA351 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA352. Students are required to enrol concurrently in CSA351 and CSA352.

Description: A clinical teaching program; students are rostered, either in small groups or individually, to attend various teaching sites in hospitals and community pharmacies throughout the state. Clinical teaching activities include ward rounds during both semesters with case studies, tutorials, patient interviews and counselling. Three block teaching rosters over two semesters include one week of each of hospital pharmacy practice, community pharmacy practice and a rural placement.

Lectures include: medication chart review and medical record interpretation, application of laboratory data to clinical pharmacy, principles of clinical pharmacy practice, communication skills.

Unit objectives: to develop clinical pharmacy skills by studying patient records, patient interviews, interpreting data and evaluating drug therapy decision making processes; identifying and resolving drug-related issues; development of communication and patient counselling skills.

Requisites: PREREQ - all yr-2 BPharm units COREQ - CSA323, CSA325, CSA311, CSA351
Staff: Mr G Taylor, Mr C Randall (Coordinators), Assoc Prof W Friesen, Dr R Rumble, Mr P Keefe, Mr J Fitch (Launceston General Hospital), Mrs M Howarth (Rural Pharmacy), Ms S Seaton, Ms A Roberts (North-West Regional Hospital)

Teaching Pattern: 2-hr lecture weekly; rostered hospital rounds; 2 wks in community and hospital pharmacy practice sites
Assessment: 3-hr exam in June (30%), 3-hr exam in Nov (50%), clinical case reports, seminars (20%)

Recommended Texts: Antibiotic Guidelines, latest edn, Therapeutic Guidelines Limited

Offered in Courses: [ M3F ]

Unit Delivery Information:

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<th>Unit</th>
<th>Weight</th>
<th>Sem 1</th>
<th>Sem 2</th>
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CSA355 - Pharmaceutical Science and Practice 3A

Special Note: On completion of CSA355 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA356. Students are required to enrol concurrently in CSA355 and CSA356.

Description: Covers the issues and concepts associated with professional pharmacy activities and clinical pharmacy practice. The emphasis within this unit is predominantly, but not exclusively, oriented toward community pharmacy practice.

Topics include: pharmaceutical care, patient counselling and communication skills, dispensing skills, patient compliance, patient education, prescription and non-prescription drug use, treatments for minor illness or injury, legal aspects of pharmacy practice, professional issues, sterilisation of pharmaceutical dosage forms, aseptic dispensing. The practical component covers prescription dispensing, drug interactions, patient counselling and advanced extemporaneous dispensing.

Unit objective: to develop a good practical knowledge and understanding of the factors required in pharmacy practice. Particular emphasis is placed on the integration of knowledge gained from all units within the pharmacy course and application of that knowledge to solving practice-related problems.

Requisites: PREREQ - all year-2 BPharm units COREQ - CSA356
Staff: Dr R Rumble (Coordinator)

Teaching Pattern:
Semester 1: 3 hrs lectures/tutorials/seminars per week, 3 hrs practical classes alternate weeks (11 weeks).
Assessment: practical exams (including extemporaneous dispensing and pharmaceutical calculation tests) (60%), theory exams (30%), assignments (10%). To pass the unit overall, students must score at least 50% in each of the practical and the theory examinations, and the Non-prescription Products Assignment must have been submitted.

Australian Pharmaceutical Formulary and Handbook, Pharmaceutical Society of Australia, latest edn
Essential equipment includes a clean, white lab coat and Australian Standards safety glasses.

Recommended Texts: Analgesic Guidelines, latest edn
Antibiotic Guidelines, latest edn
Cardiovascular Guidelines, latest edn
Gastrointestinal Guidelines, latest edn
Neurology Guidelines, latest edn
Psychotropic Guidelines, latest edn
Respiratory Guidelines, latest edn
Endocrinology Guidelines, latest edn
CSA355 - Pharmaceutical Science and Practice 3B

Special Note: On completion of CSA355 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA356. Students are required to enrol concurrently in CSA355 and CSA356.

Description: Covers the issues and concepts associated with professional pharmacy activities and clinical pharmacy practice. The emphasis within this unit is predominantly, but not exclusively, oriented toward community pharmacy practice.

Topics include: pharmaceutical care, patient counselling and communication skills, dispensing skills, patient compliance, patient education, prescription and non-prescription drug use, treatments for minor illness or injury, legal aspects of pharmacy practice, professional issues, sterilisation of pharmaceutical dosage forms, aseptic dispensing. The practical component covers prescription dispensing, drug interactions, patient counselling and advanced extemporaneous dispensing.

Unit objective: to develop a good practical knowledge and understanding of the factors required in pharmacy practice. Particular emphasis is placed on the integration of knowledge gained from all units within the pharmacy course and application of that knowledge to solving practice-related problems.

Requisites: PREREQ - all year-2 BPharm units COREQ - CSA355

Staff: Dr R Rumble (Coordinator)

Teaching Pattern: Semester 2: 4 hrs lectures/tutorials/seminars per week, 3 hrs practical classes each week (11 weeks).

Assessment: practical exams (including extemporaneous dispensing and pharmaceutical calculation tests) (60%), theory exams (30%), assignments (10%). To pass the unit overall, students must score at least 50% in each of the practical and the theory examinations, and the Non-prescription Products Assignment must have been submitted.


Australian Pharmaceutical Formulary and Handbook, Pharmaceutical Society of Australia, latest edn


Essential equipment includes a clean, white lab coat and Australian Standards safety glasses.

Recommended Texts: Analgesic Guidelines, latest edn

Antibiotic Guidelines, latest edn

Cardiovascular Guidelines, latest edn

Gastrointestinal Guidelines, latest edn

Neurology Guidelines, latest edn

Psychotropic Guidelines, latest edn

Respiratory Guidelines, latest edn

Endocrinology Guidelines, latest edn

Therapeutic Guidelines Limited

Offered in Courses: [ M3F ]

Unit Delivery Information:

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CSA402 - Research in Pharmacy A

Special Note: Integrated honours course (M4F) students enrol in CSA301 and CSA302 in year 3; non-honours (M3F) students enrol in CSA402 and CSA403 in year 4. On completion of CSA402 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA302. Students are required to enrol concurrently in CSA402 and CSA403.

Description: Students undertake the planning of a research project on a subject of their own choice. This may consist of a drug use review, literature survey or other appropriate activity. Instruction in research design and report writing is given. A written report of 5,000 words on the project undertaken is required.

Requisites: PREREQ - all yr-3 BPharm units or acceptance of candidature for BPharm(Hons) COREQ - CSA403

Staff: Dr S Aldous (Coordinator), and all other academic staff of Tasmanian School of Pharmacy

Teaching Pattern: an average of 3 hrs weekly is allocated for students to work independently on their project

Assessment: written report and seminar exam (100%)

Offered in Courses: [ M3F ] [ M4F ]

Unit Delivery Information:

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CSA403 - Research in Pharmacy B

Special Note: Integrated honours course (M4F) students enrol in CSA301 and CSA302 in year 3; non-honours (M3F) students enrol in CSA402 and CSA403 in year 4. On completion of CSA402 students are awarded an XX result (result shown in another unit), the final result
Units Coded C – Faculty of Health Science

for this unit is awarded on completion CSA302. Students are required to enrol concurrently in CSA402 and CSA403.

Description: Students undertake the planning of a research project on a subject of their own choice. This may consist of a drug use review, literature survey or other appropriate activity. Instruction in research design and report writing is given. A written report of 5,000 words on the project undertaken is required.

Requisites: PREREQ - all yr-3 BPharm units or acceptance of candidature for BPharm(Hons) COREQ - CSA402

Staff: Dr S Aldous (Coordinator), and all other academic staff of Tasmanian School of Pharmacy

Teaching Pattern: an average of 3 hrs weekly is allocated for students to work independently on their project

Assessment: written report and seminar exam (100%)

Offered in Courses: [ M3F ] [ M4F ]

Unit Delivery Information:

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CSA404 - Honours A

Special Note: On completion of CSA404 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA405. Students are required to enrol concurrently in CSA404 and CSA405.

Description: Provides an introduction to research in pharmacy. The BPharm(Hons) program is available as an overload in third and fourth year. Students with a credit average or better, should consider this option. The Honours work consists of a major research project, which is planned in third year as a 12.5% overload in the units CSA301 and CSA302 Research in Pharmacy and carried out in fourth year as a 17.5% overload in the units CSA404 and CSA405 Honours A and B and the findings submitted as a research thesis. Fields of study include pharmaceutical science, pharmacy practice, pharmacology and medicinal chemistry. Interested students should attend the introductory seminar on honours during their second year.

Requisites: PREREQ - satisfactory performance in CSA320 as year-3 overload COREQ - CSA405

Staff: Dr G Jacobson (Coordinator), all academic staff of the School

Offered in Courses: [ M3F ]

Unit Delivery Information:

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CSA405 - Honours B

Special Note: On completion of CSA404 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA405. Students are required to enrol concurrently in CSA404 and CSA405.

Description: Provides an introduction to research in pharmacy. The BPharm(Hons) program is available as an overload in third and fourth year. Students with a credit average or better, should consider this option. The Honours work consists of a major research project, which is planned in third year as a 12.5% overload in the unit CSA301 and CSA302 Research in Pharmacy and carried out in fourth year as a 17.5% overload in the units CSA404 and CSA405 Honours A and B and the findings submitted as a research thesis. Fields of study include pharmaceutical science, pharmacy practice, pharmacology and medicinal chemistry. Interested students should attend the introductory seminar on honours during their second year.

Requisites: PREREQ - satisfactory performance in CSA320 as year-3 overload COREQ - CSA405

Staff: Dr G Jacobson (Coordinator), all academic staff of the School

Offered in Courses: [ M3F ]

Unit Delivery Information:

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CSA406 - Therapeutics 4A

Special Note: On completion of CSA406 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA407. Students are required to enrol concurrently in CSA406 and CSA407.

Description: A continuation of the study of therapeutic principles as developed in CSA323 Therapeutics 3. Directed and self-directed case studies are included in the unit. The unit is divided into two sections.

Therapeutics Section: disease processes and therapeutic principles covering the following topics: incontinence, non-infectious dermatology, psychiatry, neurology, neuromuscular disease, endocrinology, gynaecology, men's health, ophthalmology.

Oncology Section: antineoplastic drug therapy and biotherapy, disease processes and therapeutic principles in oncology and palliative care.

Requisites: PREREQ - all yr-3 BPharm units COREQ - CSA407

Staff: Assoc Prof W Friesen (Coordinator), Dr S Aldous, Prof G Peterson, Dr R Rumble

Teaching Pattern: 4 hrs lectures and seminars weekly during semester 1

Assessment: 2 x 2-hr exams in June (50% each)

Required Texts: A set of printed course material

Recommended Texts: Analgesic Guidelines, latest edn
Antibiotic Guidelines, latest edn
Cardiovascular Guidelines, latest edn
Gastrointestinal Guidelines, latest edn
Neurology Guidelines, latest edn
Psychotropic Guidelines, latest edn
Respiratory Guidelines, latest edn
Endocrinology Guidelines, latest edn

Offered in Courses: [M3F]

Unit Delivery Information:

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**CSA407 - Therapeutics 4B**

Special Note: On completion of CSA406 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA407. Students are required to enrol concurrently in CSA406 and CSA407.

Description: A continuation of the study of therapeutic principles as developed in CSA323 Therapeutics 3. Directed and self-directed case studies are included in the unit.

The unit is divided into two sections.

**Therapeutics Section:** disease processes and therapeutic principles covering the following topics: incontinence, non-infectious dermatology, psychiatry, neurology, neuromuscular disease, endocrinology, gynaecology, men's health, ophthalmology.

**Oncology Section:** antineoplastic drug therapy and biotherapy, disease processes and therapeutic principles in oncology and palliative care.

Requisites: PREREQ - all yr-3 BPharm units COREQ - CSA406

Staff: Assoc Prof W Friesen (Coordinator), Dr S Aldous, Prof G Peterson, Dr R Rumble

Teaching Pattern: 4 hrs lectures and seminars weekly during semester 1

Assessment: 2 x 2-hr exams in June (50% each)

Required Texts: A set of printed course material

Recommended Texts: Analgesic Guidelines, latest edn
Antibiotic Guidelines, latest edn
Cardiovascular Guidelines, latest edn
Gastrointestinal Guidelines, latest edn
Neurology Guidelines, latest edn
Psychotropic Guidelines, latest edn
Respiratory Guidelines, latest edn
Endocrinology Guidelines, latest edn


Offered in Courses: [M3F]

Unit Delivery Information:

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**CSA412 - Clinical Pharmacokinetics 4A**

Special Note: On completion of CSA412 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA313. Students are required to enrol concurrently in CSA412 and CSA413.

Description: A study of the clinical pharmacokinetics of individual drugs and groups of drugs, sources of inter-patient variability in pharmacokinetics and the application of pharmacokinetics in practice. As with Clinical Pharmacokinetics 3, particular emphasis is placed on the role of the pharmacist in improving the use of drugs through the practical application of pharmacokinetics and therapeutic drug monitoring. There is extensive use of clinically-oriented problems and cases.

Unit objective: to develop the ability to contribute to improved drug use through the appropriate use of pharmacokinetic techniques and therapeutic drug monitoring, and interpretation of the literature.

Requisites: PREREQ - all yr-3 BPharm units COREQ - CSA413

Staff: Prof G Peterson (Coordinator), Dr R Rumble

Teaching Pattern: 54 hours lectures/tutorials

Assessment: 2-hr exam (90%), practical exercise and/or assignment (10%)


Sharpel L (c/o ABC), Applied Biopharmaceutics and Pharmacokinetics, 4th edn, ISBN 0839502784

Offered in Courses: [M3F]

Unit Delivery Information:

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**CSA413 - Clinical Pharmacokinetics 4B**

Special Note: On completion of CSA412 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA313. Students are required to enrol concurrently in CSA412 and CSA413.

Description: A study of the clinical pharmacokinetics of individual drugs and groups of drugs, sources of inter-patient variability in
pharmacokinetics and the application of pharmacokinetics in practice. As with Clinical Pharmacokinetics 3, particular emphasis is placed on the role of the pharmacist in improving the use of drugs through the practical application of pharmacokinetics and therapeutic drug monitoring. There is extensive use of clinically-oriented problems and cases.

Unit objective: to develop the ability to contribute to improved drug use through the appropriate use of pharmacokinetic techniques and therapeutic drug monitoring, and interpretation of the literature.

**Requisites:** PREREQ - all yr-3 BPharm units  
COREQ - CSA412

**Staff:** Prof G Peterson (Coordinator), Dr R Rumble

**Teaching Pattern:** 54 hours lectures/tutorials

**Assessment:** 2-hr exam (90%), practical exercise and/or assignment (10%)

**Required Texts:**  
Shargel L (c/o ABC), *Applied Biopharmaceutics and Pharmacokinetics*, 4th edn, ISBN 0839502784

**Offered in Courses:** [ M3F ]

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### CSA413 - Research in Pharmaceutical Sciences

**Special Note:** instructional content is based on * CSA420

**Description:** Students undertake the planning and conduct of a research project on a subject of their own choice. This may consist of a drug use review, literature survey or other appropriate activity. Instruction in research design and report writing is given. A written report of 10,000 words on the project undertaken is required.

**Requisites:** MEXCL - CSA420

**Staff:** Dr S Aldous (Coordinator), and all other academic staff of Tasmanian School of Pharmacy

**Teaching Pattern:** An average of 6 hrs weekly is allocated for students to work independently on their project

**Assessment:** written report and seminar exam (100%)

**Offered in Courses:** [ M6E ]

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### CSA424 - Pharmacy Honours FTA

**Special Note:** Full-time Honours students enrol in CSA424 and CSA425. On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CSA425.

**Description:** This graduate honours course is available to those graduates who hold a degree in Pharmacy. Honours students are normally expected to have credit grade point average. Honours applicants below a credit average will be considered based on a combination of academic record and relevant experience after graduation (minimum 3 years).

The Honours course aims to provide experience and training in research in pharmacy practice, pharmaceutical science or pharmacology. This overall objective is served by the following goals: to extend knowledge and understanding in specific topics of interest in pharmacy and related sciences, to improve skills in critically evaluating the literature and communicating effectively in science, to learn certain research methods and techniques, and to develop the ability to plan and carry out a research project, and to prepare a report on the results. Honours students specialise in a particular field of study and at the same time are exposed to the great range of opportunities for undertaking higher degrees and following careers in pharmacy practice and pharmaceutical science.

**Requisites:** COREQ - CSA425

**Staff:** Dr G Jacobson (Coordinator), all academic staff of the School

**Teaching Pattern:** 20 wks

**Assessment:** Seminars and thesis are assessed. On completion of CSA424 students receive a NC result. The final result for this unit is granted on completion of CSA425

**Offered in Courses:** [ M4C ]

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### CSA425 - Pharmacy Honours FTB

**Special Note:** Full-time Honours students enrol in CSA424 and CSA425. On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CSA425.

**Description:** This graduate honours course is available to those graduates who hold a degree in Pharmacy. Honours students are normally expected to have credit grade point average. Honours applicants below a credit average will be considered based on a combination of academic record and relevant experience after graduation (minimum 3 years).

The Honours course aims to provide experience and training in research in pharmacy practice, pharmaceutical science or pharmacology. This overall objective is served by the following goals: to extend knowledge and understanding in specific topics of interest in pharmacy and related sciences, to improve skills in critically evaluating the literature and communicating effectively in science, to learn certain research methods and techniques, and to develop the ability to plan and carry out a research project, and to prepare a report on the results. Honours students specialise in a particular field of study and at the same time are exposed to the great range of opportunities for undertaking higher degrees and following careers in pharmacy practice and pharmaceutical science.
Requisites: COREQ - CSA424
Staff: Dr G Jacobson (Coordinator), all academic staff of the School
Teaching Pattern: 20 wks
Assessment: Seminars and thesis are assessed. On completion of CSA424 students receive a NC result. The final result for this unit is granted on completion of CSA425

Unit Delivery Information:

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**CSA426 - Pharmacy Honours PTA**

Special Note: Part-time Honours students enrol in CSA426, CSA427, CSA428 and CSA429. On completion of this unit students receive a NC. The final result for this unit is granted on completion of CSA429.

Description: This graduate honours course is available to those graduates who hold a degree in Pharmacy. Honours students are normally expected to have credit grade point average. Honours applicants below a credit average will be considered based on a combination of academic record and relevant experience after graduation (minimum 3 years).

The Honours course aims to provide experience and training in research in pharmacy practice, pharmaceutical science or pharmacology. This overall objective is served by the following goals: to extend knowledge and understanding in specific topics of interest in pharmacy and related sciences, to improve skills in critically evaluating the literature and communicating effectively in science, to learn certain research methods and techniques, and to develop the ability to plan and carry out a research project, and to prepare a report on the results. Honours students specialise in a particular field of study and at the same time are exposed to the great range of opportunities for undertaking higher degrees and following careers in pharmacy practice and pharmaceutical science.

Requisites: COREQ - CSA426
Staff: Dr G Jacobson (Coordinator), all academic staff of the School
Assessment: Seminars and thesis are assessed. On completion of this unit students receive a NC. The final result for this unit is granted on completion of CSA429.

Offered in Courses: [ M4C ]

Unit Delivery Information:

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**CSA427 - Pharmacy Honours PTB**

Special Note: Part-time Honours students enrol in CSA426, CSA427, CSA428 and CSA429. On completion of this unit students receive a NC. The final result for this unit is granted on completion of CSA429.

Description: This graduate honours course is available to those graduates who hold a degree in Pharmacy. Honours students are normally expected to have credit grade point average. Honours applicants below a credit average will be considered based on a combination of academic record and relevant experience after graduation (minimum 3 years).

The Honours course aims to provide experience and training in research in pharmacy practice, pharmaceutical science or pharmacology. This overall objective is served by the following goals: to extend knowledge and understanding in specific topics of interest in pharmacy and related sciences, to improve skills in critically evaluating the literature and communicating effectively in science, to learn certain research methods and techniques, and to develop the ability to plan and carry out a research project, and to prepare a report on the results. Honours students specialise in a particular field of study and at the same time are exposed to the great range of opportunities for undertaking higher degrees and following careers in pharmacy practice and pharmaceutical science.

Requisites: COREQ - CSA426
Staff: Dr G Jacobson (Coordinator), all academic staff of the School
Assessment: Seminars and thesis are assessed. On completion of this unit students receive a NC. The final result for this unit is granted on completion of CSA429.

Offered in Courses: [ M4C ]

Unit Delivery Information:

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**CSA428 - Pharmacy Honours PTC**

Special Note: Part-time Honours students enrol in CSA426, CSA427, CSA428 and CSA429. On completion of this unit students receive a NC. The final result for this unit is granted on completion of CSA429.

Description: This graduate honours course is available to those graduates who hold a degree in Pharmacy. Honours students are normally expected to have credit grade point average. Honours applicants below a credit average will be considered based on a combination of academic record and relevant experience after graduation (minimum 3 years).

The Honours course aims to provide experience and training in research in pharmacy practice, pharmaceutical science or pharmacology. This overall objective is served by the following goals: to extend knowledge and understanding in specific topics of interest in pharmacy and related sciences, to improve skills in critically evaluating the literature and communicating effectively in science, to learn certain research methods and techniques, and to develop the ability to plan and carry out a research project, and to prepare a report on the results. Honours students specialise in a particular field of study and at the same time are exposed to the great range of opportunities for undertaking higher degrees and following careers in pharmacy practice and pharmaceutical science.

Requisites: COREQ - CSA429
Staff: Dr G Jacobson (Coordinator), all academic staff of the School
Assessment: Seminars and thesis are assessed. On completion of this unit students receive a NC. The final result for this unit is granted on completion of CSA429.

**Offered in Courses:** [M4C]

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<tr>
<td>CSA428</td>
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**CSA429 – Pharmacy Honours PTD**

**Special Note:** Part-time Honours students enrol in CSA426, CSA427, CSA428 and CSA429. On completion of this unit students receive a NC. The final result for this unit is granted on completion of CSA429.

**Description:** This graduate honours course is available to those graduates who hold a degree in Pharmacy. Honours students are normally expected to have credit grade point average. Honours applicants below a credit average will be considered based on a combination of academic record and relevant experience after graduation (minimum 3 years).

The Honours course aims to provide experience and training in research in pharmacy practice, pharmaceutical science or pharmacology. This overall objective is served by the following goals: to extend knowledge and understanding in specific topics of interest in pharmacy and related sciences, to improve skills in critically evaluating the literature and communicating effectively in science, to learn certain research methods and techniques, and to develop the ability to plan and carry out a research project, and to prepare a report on the results. Honours students specialise in a particular field of study and at the same time are exposed to the great range of opportunities for undertaking higher degrees and following careers in pharmacy practice and pharmaceutical science.

**Requisites:** PREREQ - CSA428

**Staff:** Dr G Jacobson (Coordinator), all academic staff of the School

**Assessment:** Seminars and thesis are assessed. On completion of this unit students receive a NC. The final result for this unit is granted on completion of CSA429.

**Offered in Courses:** [M4C]

### Unit Delivery Information:

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**CSA441 - Research Thesis**

**Special Note:** Instructional content is based on *CSA420*

**Description:** Students undertake the planning and conduct of a research project in the area of pharmaceutical sciences with a minimum weight of 50%. Instruction in research design and report writing is given.

**Requisites:** MEXCL - CSA420

**Staff:** Dr S Aldous (Coordinator), and all other academic staff of Tasmanian School of Pharmacy

**Teaching Pattern:** research project to be undertaken throughout the year, including 2 sem 3 (Jan/Feb) and 4 (June/July)

**Assessment:** written thesis and seminars (100%)

**Offered in Courses:** [M7E]

### Unit Delivery Information:

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**CSA451 - Clinical Pharmacy Residency 4A**

**Special Note:** On completion of CSA451 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA452. Students are required to enrol concurrently in CSA451 and CSA452.

**Description:** An advanced clinical teaching program; students are rostered, either in small groups or individually, to attend various teaching sites in hospitals and community pharmacies throughout the state or interstate. Clinical teaching activities include ward rounds during semester 1 with case studies, tutorials, patient interviews and counselling. Block teaching rosters in semester 2 include hospital pharmacy practice, community pharmacy practice and electives such as research (for Honours students), a project, additional hospital or community practice, other health or industry-related placements or an extended rural placement.

Topics include: application of laboratory data to clinical pharmacy, principles of clinical pharmacy practice, total parental nutrition, parenteral drug administration. Block teaching will provide students with the opportunity to undertake all aspects of clinical pharmacy practice.

Unit objectives: to develop enhanced clinical pharmacy and pharmaceutical care proficiency, to advance therapeutic and clinical pharmacology knowledge by studying patient cases, interpreting data and evaluating drug therapy decision making processes; identifying and resolving drug-related issues; advancement of communication and patient counselling capability; to study and participate in professional pharmacy practice.

**Requisites:** PREREQ - all yr-3 BPharm units COREQ - CSA423, CSA411, CSA452

**Staff:** Dr R Rumble, Assoc Prof W Friesen, Mr G Taylor, Mr C Randall (Coordinators), Prof G Peterson, Dr S Aldous, Mr P Keefe, Mr J Fitch (Launceston General Hospital), Ms S Seaton, Ms A Roberts (North-West Regional Hospital), Mrs H Howarth (Rural Pharmacy)

**Teaching Pattern:** 1 to 2 hrs lectures weekly; rostered hospital rounds; 8 full weeks in community and hospital pharmacy practice sites.

**Assessment:** 3-hr exam in Nov (65%), clinical case reports and seminars (35%), satisfactory completion of community pharmacy assignments, seminars and reports, satisfactory completion of the elective

**Recommended Texts:** Analgesic Guidelines, latest edn

Antibiotic Guidelines, latest edn
Cardiovascular Guidelines, latest edn
Gastrointestinal Guidelines, latest edn
Neurology Guidelines, latest edn
Psychotropic Guidelines, latest edn
Respiratory Guidelines, latest edn
Endocrinology Guidelines, latest edn
Therapeutic Guidelines Limited
Australian Medicines Handbook, latest edn.

Offered in Courses: [ M3F ]

Unit Delivery Information:

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<th>Weight</th>
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CSA452 - Clinical Pharmacy Residency 4B

Special Note: On completion of CSA451 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA452. Students are required to enrol concurrently in CSA451 and CSA452.

Description: An advanced clinical teaching program; students are rostered, either in small groups or individually, to attend various teaching sites in hospitals and community pharmacies throughout the state or interstate. Clinical teaching activities include ward rounds during semester 1 with case studies, tutorials, patient interviews and counselling. Block teaching rosters in semester 2 include hospital pharmacy practice, community pharmacy practice and electives such as research (for Honours students), a project, additional hospital or community practice, other health or industry-related placements or an extended rural placement.

Topics include: application of laboratory data to clinical pharmacy, principles of clinical pharmacy practice, total parenteral nutrition, parenteral drug administration. Block teaching will provide students with the opportunity to undertake all aspects of clinical pharmacy practice.

Unit objectives: to develop enhanced clinical pharmacy and pharmaceutical care proficiency, to advance therapeutic and clinical pharmacology knowledge by studying patient cases, interpreting data and evaluating drug therapy decision making processes; identifying and resolving drug-related issues; advancement of communication and patient counselling capability; to study and participate in professional pharmacy practice.

Requisites: PREREQ - all yr-3 BPharm units COREQ - CSA243, CSA411, CSA451

Staff: Dr R Rumble, Assoc Prof W Friesen, Mr G Taylor, Mr C Randall (Coordinators), Prof G Peterson, Dr S Aldous, Mr P Keefe, Mr J Fitch (Launceston General Hospital), Ms S Seaton, Ms A Roberts (North-West Regional Hospital), Mrs H Howarth (Rural Pharmacy)

Teaching Pattern: 1 to 2 hrs lectures weekly; rostered hospital rounds; 8 full weeks in community and hospital pharmacy practice sites.

Assessment: 3-hr exam in Nov (65%), clinical case reports and seminars (35%), Satisfactory completion of community pharmacy assignments, seminars and reports, satisfactory completion of the elective

Recommended Texts: Analgesic Guidelines, latest edn
Antibiotic Guidelines, latest edn
Cardiovascular Guidelines, latest edn
Gastrointestinal Guidelines, latest edn
Neurology Guidelines, latest edn
Psychotropic Guidelines, latest edn
Respiratory Guidelines, latest edn
Endocrinology Guidelines, latest edn
Therapeutic Guidelines Limited
Australian Medicines Handbook, latest edn.

Offered in Courses: [ M3F ]

Unit Delivery Information:

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CSA455 - Pharmaceutical Science and Practice 4A

Special Note: On completion of CSA455 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA356. Students are required to enrol concurrently in CSA455 and CSA456.

Description: Has two main streams (1) professional practice, (2) drug information. The professional practice stream will build on the material studied in Pharmaceutical Science and Practice 3 and continue to develop student knowledge and understanding of the issues and concepts associated with professional pharmacy activities and clinical pharmacy practice. This subject will also provide instruction in specialised drug information skills.

Topics include: pharmaceutical care, patient counselling and communication skills, dispensing skills, patient compliance, patient education, prescription and nonprescription drug use, complimentary medicines, treatments for minor illness or injury, legal aspects of pharmacy practice, professional issues. The practical component covers prescription dispensing, drug interactions, patient counselling, advanced extemporaneous dispensing.

Unit objectives: (1) to develop a good practical knowledge and understanding of the factors required in pharmacy practice; (2) to develop the skills required to retrieve, evaluate and present information suitable for enquiries encountered in pharmacy practice settings.

Requisites: COREQ - CSA315 PREREQ - CSA456

Staff: Dr R Rumble (Coordinator), Prof G Peterson
Teaching Pattern: 52x1-hr hrs lectures/tutorials/seminars, 6x3-hr practical  
Assessment: practical exams (50%), theory exams (30%), assignments (20%). To pass the unit overall, students must score at least 50% in each of the practical and the theory examinations, and all assignments.


*Australian Pharmaceutical Formulary and Handbook*, Pharmaceutical Society of Australia, latest edn


*Poisons Act, Regulations and lists*, Tasmanian Government Printer (students obtain direct)

Essential equipment includes a clean, white lab coat and Australian Standards safety glasses.

Recommended Texts: *Analgesic Guidelines*, latest edn

*Antibiotic Guidelines*, latest edn

*Cardiovascular Guidelines*, latest edn

*Gastrointestinal Guidelines*, latest edn

*Neurology Guidelines*, latest edn

*Psychotropic Guidelines*, latest edn

*Respiratory Guidelines*, latest edn

*Endocrinology Guidelines*, latest edn

Therapeutic Guidelines Limited

Offered in Courses: [ M3F ]

Unit Delivery Information:

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**CSA456 - Pharmaceutical Science and Practice 4B**

Special Note: On completion of CSA455 students are awarded an XX result (result shown in another unit), the final result for this unit is awarded on completion CSA356. Students are required to enrol concurrently in CSA455 and CSA456.

Description: Has two main streams (1) professional practice, (2) drug information. The professional practice stream will build on the material studied in Pharmaceutical Science and Practice 3 and continue to develop student knowledge and understanding of the issues and concepts associated with professional pharmacy activities and clinical pharmacy practice. This subject will also provide instruction in specialised drug information skills.

Topics include: pharmaceutical care, patient counselling and communication skills, dispensing skills, patient compliance, patient education, prescription and nonprescription drug use, complimentary medicines, treatments for minor illness or injury, legal aspects of pharmacy practice, professional issues. The practical component covers prescription dispensing, drug interactions, patient counselling, advanced extemporaneous dispensing.

Unit objectives: (1) to develop a good practical knowledge and understanding of the factors required in pharmacy practice; (2) to develop the skills required to retrieve, evaluate and present information suitable for enquiries encountered in pharmacy practice settings.

Requisites: COREQ - CSA455 PREREQ - CSA315

Staff: Dr R Rumble (Coordinator), Prof G Peterson

Teaching Pattern: 52x1-hr hrs lectures/tutorials/seminars, 6x3-hr practical  
Assessment: practical exams (50%), theory exams (30%), assignments (20%). To pass the unit overall, students must score at least 50% in each of the practical and the theory examinations, and all assignments.


*Australian Pharmaceutical Formulary and Handbook*, Pharmaceutical Society of Australia, latest edn


*Poisons Act, Regulations and lists*, Tasmanian Government Printer (students obtain direct)

Essential equipment includes a clean, white lab coat and Australian Standards safety glasses.

Recommended Texts: *Analgesic Guidelines*, latest edn

*Antibiotic Guidelines*, latest edn

*Cardiovascular Guidelines*, latest edn

*Gastrointestinal Guidelines*, latest edn

*Neurology Guidelines*, latest edn

*Psychotropic Guidelines*, latest edn

*Respiratory Guidelines*, latest edn

*Endocrinology Guidelines*, latest edn

Therapeutic Guidelines Limited

Offered in Courses: [ M3F ]

Unit Delivery Information:
### Units Coded C – Faculty of Health Science

**CSA603 - Graduate Diploma of Pharmaceutical Science**

**Description:** As well as enrolling in units listed in the course schedule, full time GradDipPharmSc students must also enrol in CSA601 and CSA603 and part time students in CSA602 and CSA603. CSA601 and CSA602 are used for the academic year from the start of semester 1 until the end of December. CSA603 is used for Summer School in January and February.

**Staff:** Dr G. Jacobson

**Unit Delivery Information:**

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**CSA604 - Graduate Diploma of Pharmaceutical Science A**

**Description:** As well as enrolling in units listed in the course schedule, full time MPharmSc students must also enrol in CSA701 and CSA703 and part time students in CSA702 and CSA703. CSA701 and CSA702 are used for the academic year from the start of semester 1 until the end of December. CSA703 is used for Summer School in January and February.

**Staff:** Dr G. Jacobson

**Unit Delivery Information:**

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**CSA605 - Graduate Diploma of Pharmaceutical Science B**

**Description:** As well as enrolling in units listed in the course schedule, full time MPharmSc students must also enrol in CSA701 and CSA703 and part time students in CSA702 and CSA703. CSA701 and CSA702 are used for the academic year from the start of semester 1 until the end of December. CSA703 is used for Summer School in January and February.

**Staff:** Dr G. Jacobson

**Unit Delivery Information:**

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<th>Unit</th>
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**CSA606 - Graduate Diploma of Pharmaceutical Science A**

**Description:** As well as enrolling in units listed in the course schedule, full time MPharmSc students must also enrol in CSA701 and CSA703 and part time students in CSA702 and CSA703. CSA701 and CSA702 are used for the academic year from the start of semester 1 until the end of December. CSA703 is used for Summer School in January and February.

**Staff:** Dr G. Jacobson

**Unit Delivery Information:**

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**CSA607 - Graduate Diploma of Pharmaceutical Science B**

**Description:** As well as enrolling in units listed in the course schedule, full time MPharmSc students must also enrol in CSA701 and CSA703 and part time students in CSA702 and CSA703. CSA701 and CSA702 are used for the academic year from the start of semester 1 until the end of December. CSA703 is used for Summer School in January and February.

**Staff:** Dr G. Jacobson

**Unit Delivery Information:**

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**CSA608 - Graduate Diploma of Pharmaceutical Science C**

**Description:** As well as enrolling in units listed in the course schedule, full time MPharmSc students must also enrol in CSA701 and CSA703 and part time students in CSA702 and CSA703. CSA701 and CSA702 are used for the academic year from the start of semester 1 until the end of December. CSA703 is used for Summer School in January and February.

**Staff:** Dr G. Jacobson

**Unit Delivery Information:**

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**CSA609 - Graduate Diploma of Pharmaceutical Science D**

**Description:** As well as enrolling in units listed in the course schedule, full time MPharmSc students must also enrol in CSA701 and CSA703 and part time students in CSA702 and CSA703. CSA701 and CSA702 are used for the academic year from the start of semester 1 until the end of December. CSA703 is used for Summer School in January and February.

**Staff:** Dr G. Jacobson
CSA703 - Master of Pharmaceutical Science
Description: As well as enrolling in units listed in the course schedule, full time MPPharmSc students must also enrol in CSA701 and CSA703 and part time students in CSA702 and CSA703. CSA701 and CSA702 are used for the academic year from the start of semester 1 until the end of December. CSA703 is used for Summer School in January and February.
Staff: Dr G. Jacobson

CSA704 - Master of Pharmaceutical Science A
Description: As well as enrolling in units listed in the course schedule, full time MPPharmSc students must also enrol in CSA701 and CSA703 and part time students in CSA702 and CSA703. CSA701 and CSA702 are used for the academic year from the start of semester 1 until the end of December. CSA703 is used for Summer School in January and February.
Staff: Dr G. Jacobson

CSA705 - Master of Pharmaceutical Science B
Description: As well as enrolling in units listed in the course schedule, full time MPPharmSc students must also enrol in CSA701 and CSA703 and part time students in CSA702 and CSA703. CSA701 and CSA702 are used for the academic year from the start of semester 1 until the end of December. CSA703 is used for Summer School in January and February.
Staff: Dr G. Jacobson

CSA706 - Master of Pharmaceutical Science A
Description: As well as enrolling in units listed in the course schedule, full time MPPharmSc students must also enrol in CSA701 and CSA703 and part time students in CSA702 and CSA703. CSA701 and CSA702 are used for the academic year from the start of semester 1 until the end of December. CSA703 is used for Summer School in January and February.
Staff: Dr G. Jacobson

CSA707 - Master of Pharmaceutical Science B
Description: As well as enrolling in units listed in the course schedule, full time MPPharmSc students must also enrol in CSA701 and CSA703 and part time students in CSA702 and CSA703. CSA701 and CSA702 are used for the academic year from the start of semester 1 until the end of December. CSA703 is used for Summer School in January and February.
Staff: Dr G. Jacobson

CSA708 - Master of Pharmaceutical Science C
Description: As well as enrolling in units listed in the course schedule, full time MPPharmSc students must also enrol in CSA701 and CSA703 and part time students in CSA702 and CSA703. CSA701 and CSA702 are used for the academic year from the start of semester 1 until the end of December. CSA703 is used for Summer School in January and February.
Staff: Dr G. Jacobson

CSA709 - Master of Pharmaceutical Science D
Description: As well as enrolling in units listed in the course schedule, full time MPPharmSc students must also enrol in CSA701 and CSA703 and part time students in CSA702 and CSA703. CSA701 and CSA702 are used for the academic year from the start of semester 1 until the end of December. CSA703 is used for Summer School in January and February.
CSA999 - RHD Visiting Program

Description: This is for Research Higher Degree students who wish to undertake part of their research study at the University of Tasmania as a visitor. The activities of the School cover a broad range of interests and include laboratory, clinical and community-based studies related to drug science and health care. The School has continuing research programs in the following areas: Clinical Pharmacy/Pharmacology Pharmacy Practice Pharmaceutical Sciences Chemical Ecology and Toxicology

For more information regarding research in the School of Pharmacy please see: http://www.healthsci.utas.edu.au/pharmacy/research.html

CXA001 - BioStart

Description: Students enrolling in the BioStart program use the unit enrolment code *CXA001. For details of the course see BioStart course description.

Staff: Ms J Tarr, Ms M L Bird

Teaching Pattern: 5 days, 9am - 3pm

Assessment: Nil

Offered in Courses: [H0F]

CXA100 - Food Studies

Special Note: Core for Human Life Sciences students

Description: This unit introduces students to the role of food in society and health. It provides information on what we eat, the food supply, and physical, anthropological and sociological approaches to understanding food, eating and nutrition. The unit introduces concepts of food choice, food processing, risk assessment, food groups and food law. It encourages appreciation of the physical and chemical properties of some foods and the influences of food properties. Practical examples of food patterns, healthy recipes and food guidance systems are included.

Requisites: PREREQ - HSC Science, health studies or food studies COREQ - CXA171 Cell biology and function or KJC161 Chemistry for life sciences preferable

Staff: Ms L. Harrison and visiting Lecturers

Teaching Pattern: 3 hour lectures/seminar weekly, practical sessions (total 6hrs), with flexibly delivered material and on-line support.

Assessment: Assignments and online quiz (65%), exam (35%)


Offered in Courses: [M3H] [OCS]

CXA101 - Medical Laboratory Practice 1

Special Note: restricted to students enrolled in M3G and M3H

Description: Provides the student with an understanding of the basic functions and interrelationships of the core laboratory departments within the clinical laboratory. At the end of this unit, students will be competent to carry out a broad range of laboratory techniques, use a variety of instruments, and have a good understanding of the theoretical principles on which these are based.

Requisites: PREREQ - TCE Chemistry (CHM5C)

Staff: Dr M Watts (Coordinator), Mr DA Kunde, Mr DJ Heathcote

Teaching Pattern: 2 hrs lecture, 1-hr tutorial and 2 hrs practical weekly (13 wks)

Assessment: continuous assessment exams (40%), literature search essay (10%), practical assignments (30%), practical exam (20%)

Offered in Courses: [M3G] [M3H]

CXA102 - Introduction to Health Sciences

Special Note: restricted to students enrolled in M3H

Description: Introductory unit for students entering the health sciences area or allied health training. It aims to give students a range of skills needed in the study and practice of health sciences and a basis for work practice in the health system. It includes: sources of information in
health sciences, assessment of health information, evidence based practice and principles of teaching and learning in health related fields, basic communication skills -- oral, written and electronic; an introduction to data handling, case examples from health areas, including Aboriginal health, environmental health, epidemiology and ethics; experience of group work and an introduction to work and professions in the health service.

**Requisites:** PREREQ - CXA171 or equiv

**Staff:** Prof M Ball

**Teaching Pattern:** 1-hr lecture, 2-hr seminar/workshop weekly, self-directed reading and practical exercises.

**Assessment:** continual assessment, largely competency-based (60%), assignment (40%)

**Recommended Texts:** Reader provided

**Offered in Courses:** [ M3H ]

**Unit Delivery Information:**

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**CXA106 - Medical Laboratory Practice 2**

**Description:** Gives students a basic understanding of microbiology in relation to disease processes, transmission and treatment. The unit covers the structure and function of microbes, their role in the infectious disease process within the human body, how microbes can be controlled and laboratory identification procedures. Topics include laboratory diagnosis and practice, infectious diseases and pathogenesis, antimicrobial agents, occupational health and infection control, biological warfare and emerging global infections. The practical component introduces the student to safe microbiological handling techniques and basic microbiology laboratory methods. These two components are then used to allow the student to carry out a microbiological investigation into an area of their interest.

**Requisites:** PREREQ - CXA171

**Staff:** Ms S Salter (Coordinator)

**Teaching Pattern:** 2-hr lecture, 1-hr tutorial, 2-hr practical, weekly (13 wks)

**Assessment:** theory: mid-sem test (15%), end-of-sem exam(50%), practical presentation (15%), practical assignment (10%), microscopy test (10%)

**Recommended Texts:** Lee G & Bishop P, *Microbiology and Infection Control for Health Professionals* ISBN 1740093232

General Microbiology texts 576-576.19, 589.9 and 616.0-616.9 in University library

**Offered in Courses:** [ M3G ]

**Unit Delivery Information:**

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**CXA115 - Physics for Health Sciences**

**Special Note:** Offered as a first year option in the Bachelor of Health Science. Students are required to complete CXA115 or BMA101 *Introduction to Management*. Students undertaking this unit must have the prerequisite below. The unit may not be available every year, and can be undertaken as a second year elective.

**Description:** Provides an understanding of the application of some basic principles of physics to biology and life sciences. Special emphasis is given to the needs of health professionals to have in depth knowledge of the scientific basis of modern diagnostic techniques, particularly imaging techniques such as X-rays, MRI and ultra sound, as well as medical instruments and processes used in medical imaging.

**Requisites:** PREREQ - either TCE Physics (*PH866) or Physical Sciences (*SC786) or equiv plus some background in maths. MEXCL - CXA176

**Staff:** D Visentin

**Teaching Pattern:** 2 lectures, 1 tutorial and 6 X 3 hour practical sessions

**Assessment:** continuous assessment (assignments + lab + mid-sem test) (50%), end-of-sem 3 hr exam (50%)


**Offered in Courses:** [ M3L ] [ M3H ]

**Unit Delivery Information:**

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**CXA121 - Histology**

**Special Note:** restricted to students enrolled in M3G

**Description:** Covers the following topics in depth: fixation, decalcification, processing and section cutting of normal tissues; staining techniques to demonstrate specific structures; and the microscopic recognition of tissues and organs.

**Requisites:** PREREQ - CXA171

**Staff:** Mr B Gormley (coordinator), Mr Dane Hayes

**Teaching Pattern:** 2 hrs lecture, intense block with additional 2-hr lecture and tutorials in weeks 3 - 7; 3 hrs practical weekly (9 wks) plus self-directed learning

**Assessment:** Practical report (25%), assignment (10%), midterm test (10%), practical examination (15%) and theory examination (40%)


**Offered in Courses:** [ M3G ]

**Unit Delivery Information:**

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**CXA125 - Introductory Biochemistry**

**Description:** Provides a basic introduction to biochemistry for students in health and exercise sciences, complementing their studies in cell biology. The unit also provides an introduction to metabolic biochemistry and cellular/molecular biology. It considers the basic biochemistry of cell metabolism and physiological processes and discusses the functions of DNA and RNA and enzyme reactions in the body, and the role of carbohydrates, proteins, lipids and minerals. The unit uses examples of diseases resulting from biochemical abnormalities to exemplify the importance of various biochemical processes.

**Note:** unit content is still being developed and is subject to approval. Students are advised to check the web for changes in details.

**Requisites:** PREREQ - KJC161 or equiv, CXA161 or CXA171 MEXCL - KJC162

**Staff:** Mr Andrew Williams, Dr Simon Brown

**Teaching Pattern:** 2 hrs lectures weekly, 1 hr tutorial, 2 hrs practicals alternate weeks

**Assessment:** tutorial tests (10%), practical reports (30%), final exam (60%)


**Offered in Courses:** [ M3G ] [ M3H ] [ E3J ] [ OCS ]

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**CXA132 - Kinesiology**

**Description:** Kinesiology provides an introduction to the application of mechanical principles that underpin human movement and is a prerequisite for CXA301 Biomechanics. The focus is on the physical laws that control motion and energy, functional anatomy of the musculoskeletal system and qualitative motion analysis. The unit is taught with a focus on the application of kinesiology to exercise and the physical tasks of daily life.

**Requisites:** COREQ - CXA172

**Staff:** Mrs M L Bird, Mr D Visentin

**Teaching Pattern:** 2 hrs lectures 1 hr prelab, 1 hr practical or equivalent weekly and blocked workshops (13 wks)

**Assessment:** assignments (65%), final exam (35%)


**Offered in Courses:** [ E3J ] [ M3H ] [ M3L ]

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**CXA161 - Introduction to Human Biology**

**Special Note:** taught by Human Life Sciences

**Description:** Introduces students to the fundamental unit of life, the cell. Concepts in basic biological chemistry, basic biochemistry, cell biology and metabolic processes are covered in this unit. A general introduction to the structure and function of body tissues is also outlined. The unit aims to establish a solid foundation for further studies in human biology.

**Requisites:** COREQ - KJC161

**Staff:** Ms TA Douglas (Coordinator), Ms J Tarr, Ms S Salter, Ms M L Bird

**Teaching Pattern:** 2 hrs lectures, 2-hr lab/tutorial session weekly (13 wks)

**Assessment:** Mid-sem test (15%), final exam (45%), online tutorials and quizzes (20%), metabolism quiz (10%), practical submission (10%)

**Recommended Texts:** Marieb EN, *Human Anatomy and Physiology,* 5th edn, ISBN 0805349502

**Offered in Courses:** [ E3J ] [ OCS ] [ S3I ]

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**CXA171 - Cell Biology and Function**

**Description:** Introduces students to the fundamental unit of life, the cell. Concepts in basic biochemistry, cell biology, microbiology, molecular biology, embryology and genetics are covered in this unit, and form a fundamental core of knowledge to which students will refer throughout their further biological studies.

**Requisites:** COREQ - (for those students who do not have TCE Chemistry or Chemistry Bridging Course) KJC161

**Staff:** Ms TA Douglas (Coordinator), Dr A Davies, Ms S Salter

**Teaching Pattern:** 2 hrs lectures, 2-hr lab/tutorial session weekly (13 wks)
Assessment:  (theory) library assignment (15%), mid-sem test (10%), end-of-sem exam (45%), online quizzes (15%); (practical) practical exercise (5%), practical report (10%)


Offered in Courses:  [ M3G ] [ M3H ] [ M3L ] [ OCS ]

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**CXA172 - Anatomy and Physiology 1**

Description:  Introduces a systematic study of the structure and functioning of the human body, including the skeletal, muscular, nervous, endocrine, lymphatic and defence systems.

Requisites:  PREREQ - CXA171 or CXA161

Staff:  Ms T Douglas (Coordinator), Ms J Tarr, Ms M L Bird, Assoc Prof D Geraghty, Dr A Williams

Teaching Pattern:  3x1-hr lectures, 2-hr practical/tutorial weekly (13 wks)

Assessment:  continuous assessments (30%), final theory exam (50%), anatomy practical exam (20%)


Offered in Courses:  [ E3J ] [ M3G ] [ M3L ] [ M3H ] [ OCS ] [ S3I ]

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**CXA176 - Microbiology and Health**

Description:  Gives students a basic understanding of microbiology in relation to disease processes, transmission and treatment. The unit covers the structure and function of microbes, their role in the infectious disease process within the human body, how microbes can be controlled and laboratory identification procedures. Topics include laboratory diagnosis and practice, infectious diseases and pathogenesis, antimicrobial agents, occupational health and infection control, biological warfare and emerging global infections. The practical component introduces the student to safe microbiological handling techniques and basic microbiology. These two components are then used to allow the student to carry out a microbiological investigation into an area of their interest.

Requisites:  PREREQ - CXA171, CXA161 or permission of unit coordinator MEXCL - CXA106

Staff:  Ms S Salter (Coordinator)

Teaching Pattern:  2-hr lecture, 1-hr tutorial, 2-hr practical weekly (13 wks)

Assessment:  theory: mid-sem test (15%), end-of-sem exam(50%), practical presentation (15%), practical assignment (10%), microscopy test (10%)


Offered in Courses:  [ M3H ] [ M3L ] [ E3J ]

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**CXA182 - Human Bioscience 1**

Special Note:  restricted to Nursing students; taught by Human Life Sciences. Students are required to enrol in CXA182 and CXA183 concurrently.

Description:  The first of three Human Bioscience units designed for the Bachelor of Nursing introducing: (a) semester 1 - anatomical language, body organs and cavities, basic physical sciences, the musculoskeletal system, body defenses, principles of microbiology and pathophysiology; and (b) semester 2 - the normal and abnormal structure and function of the endocrine, respiratory, nervous and cardiovascular systems and the special senses.

On completion of CXA182 students receive a XX (results shown in another unit) result. The final result for this unit is granted on completion of CXA183.

Requisites:  COREQ - CXA183

Staff:  Assoc Prof DP Geraghty, Ms J Tarr (Coordinator), Ms TA Douglas, Ms M-L Bird, Dr A Davies, Mr S Tristram, Dr A Williams, Mr. N Johnson, Mr. J Fell

Teaching Pattern:  3x1-hr lectures, 2-hr practical/tutorial weekly (26 wks)

Assessment:  online (WebCT based) (35%) mid-year written exam (20%), final written (35%) & practical exam (10%)

Required Texts:


Offered in Courses:  [ H3D ]

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CXA183 - Human Bioscience 2

Special Note: restricted to Nursing students; taught by Human Life Sciences. Students are required to enrol in CXA182 and CXA183 concurrently.

Description: The first of three Human Bioscience units designed for the Bachelor of Nursing introducing: (a) semester 1 - anatomical language, body organs and cavities, basic physical sciences, the musculoskeletal system, body defenses, principles of microbiology and pathophysiology; and (b) semester 2 - the normal and abnormal structure and function of the endocrine, respiratory, nervous and cardiovascular systems and the special senses.

On completion of CXA182 students receive a XX (results shown in another unit) result. The final result for this unit is granted on completion of CXA183.

Requisites: COREQ - CXA182
Staff: Assoc Prof DP Geraghty, Ms J Tarr (Coordinator), Ms TA Douglas, Ms M-L Bird, Dr A Davies, Mr S Tristram, Dr A Williams, Mr. N Johnson, Mr. J Fell
Teaching Pattern: 3x1-hr lectures, 2-hr practical/tutorial weekly (26 wks)
Assessment: online (WebCT based) (35%) mid-year written exam (20%), final written (35%) & practical exam (10%)

Required Texts:
Recommended Texts:

Offered in Courses: [ H3D ]

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CXA200 - Radiographic Fundamentals (Unit not offered in 2006)

Special Note: Offered alternate years

Description: This subject introduces the fundamental principles of X-Ray image production. The topics included in this subject are basic image production, control of scattered radiation, photographic principles, exposure factor manipulation, film materials, intensifying screens, film cassettes, sensitometry, photographic duplication, film processing, processing chemistry, silver conservation, factors affecting radiographic image quality, image identification, image presentation and viewing. Upon completion of this subject students will be able to apply the basic principles involved in producing the radiographic image.

Requisites: PREREQ - Physics 5C or Physical Sciences 5C and Mathematics (Mathematics Methods 5C, Mathematics Specialised 5C or Mathematics Applied 5C)
Staff: Mr D. Visentin
Teaching Pattern: 4- hrs lectures, 2-hrs tutorials/practicals
Assessment: Mid session test (20%), Practical Reports (40%) and Final exam (40%)
Recommended Texts: tba
Offered in Courses: [ M3L ]

CXA201 - Radiological Imaging

Special Note: Completion of a First Aid Certificate

Description: This unit provides a structured introduction to the practical aspects of the clinical environment within a medical imaging department and to basic techniques in imaging. This unit considers the radiographic techniques and protocols required for non-contrast examinations of the visceral structures of the thorax and abdomen, and some skeletal structures. It includes a structured clinical practicum in an appropriate medical imaging department.

Requisites: PREREQ - CXA273, CXA212, CXA115, CXA200, CXA202
Staff: tba
Teaching Pattern: 2- hrs lectures, 4-hrs tutorials/seminars/practicals-alternate weeks, self-directed learning tasks, practical experience and clinical placement (equivalent to 20 days)
Assessment: Final portfolio (30%), practical assessment and short tests (40%) and clinical competency reports (10%).
Recommended Texts: tba
Offered in Courses: [ M3L ]

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CXA202 - Radiological Instrumentation 1 (Unit not offered in 2006)

Special Note: Offered alternate years

Description: This subject introduces the technological features of instruments used in general diagnostic radiographic practice. Principally this subject deals with the equipment used in fundamental general radiographic imaging and processing. It covers the design, construction, operation and practical applications of specific devices, along with appropriate calculations and relevant regulations and standards. Quality assurance procedures and techniques are concurrently introduced and considered with each general type of instrument.

Requisites: PREREQ - Physics 5C or Physical Sciences 5C and Mathematics ( Mathematics Methods 5C, Mathematics Specialised 5C or
Mathematics Applied 5C

Staff: Mr D. Visentin

Teaching Pattern: 4-hrs lectures, 1-hrs tutorials/practicals

Assessment: Lecture mini tests (20%), Practical Reports (30%) and Final exam (50%)


Recommended Texts: tba

Offered in Courses: [ M3L ]

CXA211 - Immunology (MLS)

Special Note: restricted to students enrolled in M3G

Description: Gives students an understanding of the immune system and its functions. Topics include: defence mechanisms against infectious agents; antigens, antibodies and related immunological substances; diseases of the immune system; the application of immunological reactions for the diagnosis and monitoring of disease; and the use of immunological techniques as analytical tools in the clinical and forensic laboratory

Requisites: PREREQ - CXA171, completion of one year of an approved degree

Staff: Dr M Watts

Teaching Pattern: 2 hrs lectures, 1-hr tutorial , 3 hrs practical weekly (12 wks)

Assessment: theory exams (50%), laboratory reports and assignments (50%)


Recommended Texts: Nairn R & Helbert M. Immunology for Medical Students, Mosby, 2002. ISBN 0723431906

Offered in Courses: [ M3G ]

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CXA212 - Pathology of Common Diseases

Description: Introduces students to the pathological processes that underly various human diseases. The unit enables students to recognise common pathological conditions. The project allows in-depth study of one disease process and its outcomes.

Requisites: PREREQ - CXA172, CXA176

Staff: Dr Frank Madill

Teaching Pattern: 2-hr weekly lecture/seminar, 4 tutorials per sem; 40 hrs project work over the sem

Assessment: Mid-term progressive assessment (20%), final exam (50%), project work and presentation (30%)

Required Texts: Stevens A & Lowe J, Pathology, ISBN 0397447647 or latest edn

Recommended Texts: Damjanov I, Pathology for the Health-Related Professions, WB Saunders, 2000, ISBN 0721681182

Offered in Courses: [ M3H ]

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CXA213/313 - Health Promotion: Food and Lifestyle

Description: This unit provides an overview of the concepts of health promotion and its rationale. It considers the modes of health promotion, using food, nutrition and exercise as examples. Students will encounter what drives policy decisions, along with planning, evaluation and communication techniques of program design. The unit also introduces students to the various organizations that have a role in health promotion.

Requisites: PREREQ - 100 science/health science or equivalent

Staff: Lesley Harrison, plus guest contributors

Teaching Pattern: For Semester 1, 3 hour seminars for 11 weeks, with flexibly delivered material, on-line support and project work. May sometimes be offered in Semester 3, as six days of summer school plus flexibly delivered materials and on-line support

Assessment: 2 Assignments - total 80% and On-line multiple-choice quiz -20%


Nutbeam, D. & Harris, E. 1998, Theory in a nutshell: A practitioner's guide to commonly used theories and models in health promotion, National Centre for Health Promotion.


Offered in Courses: [ M3H ] [ E4J ] [ OCS ]

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CXA214 - Food Sciences and Practices

Description: This unit introduces students to the principles of food science, food technology and processing, and food uses. It builds on the
principles of food hygiene and HACCP, introduced in other units, to consider the real-life application of those principles. The unit includes a practical component dealing with food handling and some cooking principles, undertaken in cooperation with TAFE.

**Requisites:** PREREQ - CXA100 Food Studies COREQ - CXA125 Introduction Biochemistry PREREQ - CXA176 Microbiology and health

**Staff:** Ms S Murray, Ms L Harrison and Mr T Belton

**Teaching Pattern:** 4, three hour sessions, and 3 or 4 four hour practical-based sessions (TAFE) and self-directed learning

**Assessment:** Assignment (35%), Practical reports (15%), Risk assessment study (25%) and end of semester theory exam (25%)


**Recommended Texts:** additional readings will be supplied on line.

**Offered in Courses:** [ M3H ] [ M3P ]

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**CXA222 - Histopathology**

**Special Note:** restricted to students enrolled in M3G

**Description:** Includes theoretical studies and practical sessions in: the histological methods used to demonstrate bacterial, viral and fungal infections; infiltrations, endogenous pigments; enzyme histochemistry and immuno-cytochemistry; and teaches the microscope recognition of some disease processes relevant to these.

**Requisites:** PREREQ - CXA121, CXA172

**Staff:** Dr Frank Madill

**Teaching Pattern:** 2 hrs lecture each week plus 1-hr tutorial (4 weeks), 2-3 hrs practical weekly (10 wks) and some self-directed learning.

**Assessment:** Mid-term progressive assessment (15%), practical (35%), final exam (50%)


**Recommended Texts:** Stevens A & Lowe J, *Pathology*, latest edn

**Offered in Courses:** [ M3G ] [ M3H ]

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**CXA223 - Histology for Aquaculture (Unit not offered in 2006)**

**Special Note:** taught by Human Life Sciences

**Description:** Teaches basic tissue dissection, processing, section cutting and staining techniques on a range of fish tissues and organs; the recognition of their normal microscopic structure; and special staining techniques to demonstrate bacterial and fungal infections.

**Requisites:** PREREQ - KQA110

**Staff:** Mr B Gormley

**Teaching Pattern:** 1-hr lecture, 2 hrs practical, 1-hr tutorial weekly (8 wks) plus self directed learning sessions

**Assessment:** practical (40%), continuous assessment (20%), exam (40%)

**Offered in Courses:** [ S3K ]

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**CXA231 - Haematology 1**

**Special Note:** restricted to students enrolled in M3G

**Description:** Covers: normal haemopoiesis, haemostasis; the causes and classification of bleeding disorders; routine haematological screening procedures, methodology and quality control; recognition of cells of the peripheral blood; and the recognition of normal and abnormal features in peripheral blood smears.

**Requisites:** PREREQ - CXA261

**Staff:** Mr D Heathcote

**Teaching Pattern:** 3 hrs practical, 2 hrs lectures, 1-hr tutorial weekly (13 wks)

**Assessment:** Intra-semester exams (10%), Final theory exam (50%), Practical exam (20%) and Practical reports (20%)


**Offered in Courses:** [ M3G ]

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**CXA237 - Exercise Physiology & Nutrition**

**Description:** This unit examines the physiological response to exercise, the physiological adaptations to exercise training and the limitations to exercise performance. Topics covered in this unit include respiratory, cardiac and muscle physiology, the role of the central nervous system in exercise, mechanisms of fatigue (central and peripheral), acid base balance, thermoregulation and endocrine function. In addition this unit provides an introduction to sports nutrition and ergogenic aids.

**Requisites:** PREREQ - CXA273

**Staff:** Mr. J Fell (coordinator), Mr. N Johnson

**Teaching Pattern:** 13 x 2-hr lectures, 6 x 2-hr lab classes and 6 x 1-hr tutorials
**Assessment:** mid-sem exam (30%), written lab reports (20%), and a final exam (50%)


**Recommended Texts:** Williams MH, *Nutrition for Fitness and Sport*, 6th edn, Wm C Brown, Dubuque IA, 2002

**Offered in Courses:** [ E3J ] [ M3H ] [ S3I ]

**Unit Delivery Information:**

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**CXA241 - General and Medical Microbiology**

**Description:** Provides students detailed descriptions of microbial physiology, taxonomy, and genetics. The unit is strongly focused on microorganisms which are pathogenic to human beings and students are taught techniques for isolating and identifying those organisms. Interactions between microbes and human beings are described, in particular mechanisms of pathogenesis, and the role of genetic recombination in the development of new strains.

**Requisites:** PREREQ - CXA106 or CXA176 MEXCL - KQA207

**Staff:** Mr S Tristram, Ms S Salter

**Teaching Pattern:** 2-hr lecture, 1-hr tutorial and 3-hr practical weekly (9 wks)

**Assessment:** Spot quizzes (10%), MST test (15%), genetics test (15%), Pre-laboratory preparation (10%) and final theory exam (50%)

**Required Texts:** Talaro & Talaro, *Foundations in Microbiology*, 5th edn, ISBN 0072320427


**Offered in Courses:** [ M3G ] [ M3H ]

**Unit Delivery Information:**

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**CXA251 - Clinical Chemistry 1**

**Special Note:** restricted to students enrolled in M3G or M3H

**Description:** Imparts a thorough knowledge of quality assurance requirements in the modern laboratory, including laboratory method manual preparation, sources of error in analytical testing and the use and establishment of reference ranges. The clinical significance of, current state of diagnostic testing and analytical methods employed to assess the following are also covered: Renal function, purine metabolism, water and electrolyte balance, acid/base homeostasis and oxygen status.

**Requisites:** PREREQ - CXA101, CXA261

**Staff:** Mr DA Kunde

**Teaching Pattern:** 2 hrs lecture, 1-hr tutorial, 3 hrs practical weekly (13 wks)

**Assessment:** assignment (10%), mid-sem test (15%), practical reports (20%), practical exam (20%), final exam (40%)


**Offered in Courses:** [ M3G ] [ M3H ]

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**CXA261 - Metabolic Biochemistry**

**Description:** Is for undergraduates in Biomedical Science, other life sciences and Human Movement, majoring in Sports Science. The unit is an in-depth study of the biochemistry of primary metabolites (proteins, carbohydrates, nucleic acids and lipids) and metabolic reactions and pathways; enzymes and enzyme kinetics. In the laboratory, analytical biochemical techniques are used to study biochemical reactions.

**Requisites:** PREREQ - KJC103 or ( KJC161 and [ CXA125 or KJC162]) and one of KQA110, CXA171 or equiv

**Staff:** Dr Simon Brown (Coordinator)

**Teaching Pattern:** 2 hrs lectures, 1 to 2 hrs tutorial/tests, 3 hrs practical weekly (13 wks)

**Assessment:** practicals (15%), end-of-sem exam (65%), semester tests (20%)


**Offered in Courses:** [ E3J ] [ E4J ] [ M3G ] [ M3H ]

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**CXA262 - Cell and Molecular Biochemistry**

**Description:** Expands on the students understanding of biochemistry obtained in CXA261 *Metabolic Biochemistry*, concentrated at a molecular level. The unit is a comprehensive study of regulation of cellular metabolism and signalling along with a detailed study of the molecular mechanisms of genetic replication, transcription and translation. The students is also introduced to molecular biology techniques and terminology.

**Requisites:** PREREQ - CXA261

**Staff:** Dr Simon Brown (Coordinator)

**Teaching Pattern:** 3 hrs lectures, 3 hrs practical weekly (13 wks)
Assessment: laboratory reports and notebook (40%), internal tests and end-of-sem exam (60%)


Offered in Courses: [ E3J ] [ E4J ] [ M3G ] [ M3H ]

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**CXA273 - Anatomy and Physiology 2**

Description: Continues the study of the structure and functioning of the various systems of the human body begun in CXA172, including the cardiovascular and respiratory systems, urinary system and fluid, electrolyte and acid-base balance, reproductive and digestive systems.

Requisites: PREREQ - CXA172

Staff: Ms T Douglas (Coordinator), Dr A Davies, Ms J Tarr, Assoc Prof D Geraghty, Dr A Williams

Teaching Pattern: 3 x 1-hr lectures, 2-hr practical/tutorial weekly (13 weeks)

Assessment: continuous assessments (30%), final theory exam (50%), anatomy practical exam (20%)


Offered in Courses: [ E3J ] [ M3G ] [ M3L ] [ M3H ] [ OCS ] [ S3I ]

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**CXA285 - Human Bioscience 3**

Special Note: restricted to Bachelor of Nursing students; taught by Human Life Sciences

Description: Is a single semester unit taught in the second year of the Bachelor of Nursing course examining: normal and abnormal biology of the digestive and renal systems as well as relevant microbiology of these body systems; pharmacology; nutrition; acid-base and fluid balance. This unit builds on and extends the concepts and material presented in the prerequisite unit Human Bioscience 1 and 2 (CXA181).

Requisites: PREREQ - CXA181

Staff: Dr A Davies (Coordinator), Ms TA Douglas, Assoc Prof DP Geraghty, Ms J Tarr, Mr S Tristram

Teaching Pattern: 3 x 1 hr lectures, 1 x 2hr prac per week (10 wks)

Assessment: Continuous assessment (40%); final examinations (60%)


Haslett C et al (eds), *Davidson's Principles and Practice of Medicine*, ISBN 0443059446


N.B. texts used in CXA181 are entirely appropriate for use in this unit.

Offered in Courses: [ H3D ]

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**CXA286 - Human Bioscience 4**

Special Note: restricted to Bachelor of Nursing students; taught by Human Life Sciences; offered over 10 weeks of semester 2

Description: Is a single semester unit taught in the second year of the Bachelor of Nursing course including: clinically focused global review of single and multiple body system situations, drawing together material from Human Bioscience 3 (CXA285) as well as from the prerequisite unit Human Bioscience 1 & 2 (CXA181); the normal and abnormal biology of the reproductive system as well as relevant microbiology and pharmacology of this system; pharmacology and physiology of altered states such as sleep.

Requisites: PREREQ - CXA181

Staff: Dr A Davies (Coordinator), Ms TA Douglas, Assoc Prof DP Geraghty, Ms J Tarr, Mr S Tristram

Teaching Pattern: 3 x 1 hr lectures, 1 x 2hr prac per week (10 wks)

Assessment: Online (WebCT based), pre-lab quizzes (10%), online mid-semester exam (20%), online case-study (20%), end semester written exam (50%)


Haslett C et al (eds), *Davidson's Principles and Practice of Medicine*, ISBN 0443059446


N.B. texts used in CXA181 are entirely appropriate for use in this unit.

Recommended Texts:

Offered in Courses: [ H3D ]

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**CXA287 - Human Bioscience (Advanced Standing) 1**

**Special Note:** the unit is designed for students who have previously undertaken a significant component of the disciplines of Human Bioscience. It is suited for students transferring from other institutions who have successfully undertaken at least one year of human biological sciences, or for enrolled nurses who are granted an advanced pathway in the nursing undergraduate degree. Students are required to enrol concurrently in CXA287 and CXA288.

**Description:** For students with advanced standing and includes appropriate material from the units CXA182, CXA183 and CXA285, and CXA286. First semester covers the normal and abnormal biology of the digestive and renal systems. Additionally, students cover principles of pharmacology and selected systems pharmacology, microbiology and pathophysiology. Second semester material covers the normal and abnormal biology of the endocrine, nervous, cardiovascular and respiratory systems, and the special senses.

On completion of CXA287 students receive a XX (results shown in another unit) result. The final result for this unit is granted on completion of CXA288.

**Requisites:** PREREQ - Significant experience as an enrolled nurse. COREQ - CXA288

**Staff:** Assoc Prof DP Geraghty (Coordinator), Dr A Davies, Ms T Douglas, Mr S Tristram, Ms J Tarr

**Teaching Pattern:** 2-3 lectures, 2 hrs practical/tutorial sessions

**Assessment:** online (WebCT-based) and written assessments, mid-year written exam, end-of-year written and practical exam

**Required Texts:**

**Unit Delivery Information:**

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**CXA288 - Human Bioscience (Advanced Standing) 2**

**Special Note:** the unit is designed for students who have previously undertaken a significant component of the disciplines of Human Bioscience. It is suited for students transferring from other institutions who have successfully undertaken at least one year of human biological sciences, or for enrolled nurses who are granted an advanced pathway in the nursing undergraduate degree. Students are required to enrol concurrently in CXA287 and CXA288.

**Description:** For students with advanced standing and includes appropriate material from the units CXA182, CXA183 and CXA285, and CXA286. First semester covers the normal and abnormal biology of the digestive and renal systems. Additionally, students cover principles of pharmacology and selected systems pharmacology, microbiology and pathophysiology. Second semester material covers the normal and abnormal biology of the endocrine, nervous, cardiovascular and respiratory systems, and the special senses.

On completion of CXA287 students receive a XX (results shown in another unit) result. The final result for this unit is granted on completion of CXA288.

**Requisites:** PREREQ - Significant experience as an enrolled nurse. COREQ - CXA288

**Staff:** Assoc Prof DP Geraghty (Coordinator), Dr A Davies, Ms T Douglas, Mr S Tristram, Ms J Tarr

**Teaching Pattern:** 2-3 lectures, 2 hrs practical/tutorial sessions

**Assessment:** online (WebCT-based) and written assessments, mid-year written exam, end-of-year written and practical exam

**Required Texts:**

**Unit Delivery Information:**

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**CXA300 - Human Molecular Biology**

**Description:** Extends the students’ understanding of the concepts of genetics and molecular biology obtained in CXA171 *Cell Biology and Function* and CXA262 *Cell and Molecular Biochemistry.* The unit focuses on medical molecular genetics providing detailed study of genetic mutations and inheritance patterns of genetic diseases. Students also study advanced genetic aspects of immune system. Laboratory sessions cover molecular diagnostic techniques.

**Requisites:** PREREQ - CXA262

**Staff:** Mr DA Kunde

**Teaching Pattern:** flexible delivery via Vista; 1-hr tutorial weekly, one week practical workshop

**Assessment:** laboratory workbook (25%), quizzes (20%), assignment and presentation (45%), tutorials (10%)


**Offered in Courses:** [ M3H ] [ M3G ] [ E3J ]

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**CXA301 - Biomechanics (Unit not offered in 2006)**

**Description:** Assumes an understanding of the information presented in CXA132 *Kinesiology* and builds an understanding of biomechanical principles and research techniques. Biomechanics is the study of internal and external forces acting on the human body and the movements produced by these forces. This unit examines basic principles of mechanics applicable to the study of human movement and
selected biomechanical techniques available for quantifying human performance.

**Requisites:** PREREQ - CXA132

**Staff:** Ms M-L Bird

**Teaching Pattern:** 13 x 2-hr lectures and 5 x 2-hr lab classes, some blocking on alternate weeks

**Assessment:** written lab reports (20%), assignment (30%), and a final exam (50%)


**Offered in Courses:** [ E3J ] [ E4J ]

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**CXA303 - Public, Community and Environmental Health**

**Description:** This unit develops the student's understanding of the role and importance of public health, the influence of community functions and the interaction with environmental health. It also develops the student's skills in interviewing, advocacy, educating adults, conflict resolution and report writing.

**Requisites:** PREREQ - CXA102 PREREQ - CXA 213 Health promotion

**Staff:** Ms L Harrison, guest lecturers

**Teaching Pattern:** alternate week 3-hour tutorials/seminars, on-line tutorials. self-directed learning

**Assessment:** three written assignments (30%, 30% and 40%)

**Required Texts:** Ewles L & Simnett I, (2003), *Promoting Health, a Practical guide*, Bailliere Tindall, Sydney

**Recommended Texts:** tba

**Offered in Courses:** [ M3H ]

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**CXA308 - Exercise Assessment and Prescription**

**Description:** This unit teaches students how to measure "fitness" and design exercise training programs. Topics covered include the assessment of strength, speed, agility, anaerobic power, endurance capacity and the measurement of body composition. The application of both laboratory and field based tests will be covered in lectures and laboratories. The unit explores common theories concerning the design and implementation of exercise training programs, including internal training, "periodisation" and exercise for "fat burning" (weight management and performance). Students will be encouraged to think beyond these and use their acquired knowledge of human physiology to devise original strategies for improving physical function. The course also explores the legal and ethical issues of exercise testing and determinants of adherence to training programs.

**Requisites:** PREREQ - CXA237 (taken previously or concurrently)

**Staff:** Mr J Fell (coordinator), Mr N Johnson

**Teaching Pattern:** 11 x 2-hr lectures and 9 x 2-hr lab classes

**Assessment:** written assignments (25%), mid semester test (25%) and a final exam (50%)


Maud, PJ. And Foster, C. *Physiological Assessment of Human Fitness*. Human Kinetics, Champaign, Illinois. 1995

**Offered in Courses:** [ E3J ] [ M3H ]

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**CXA309 - Health Services and Health Informatics**

**Description:** The first module introduces students to the Health Care System in Australia and selected other countries. This includes consideration and the purpose of health services and the contribution of a range of health care professionals, multidisciplinary team work, service funding and management. The second module introduces students to the way in which new information and communication technologies could improve health services; the principles and examples of evidence based health care, and quality assurance.

**Requisites:** PREREQ - yr-1 BHlthSc units or equiv

**Staff:** Dr I Robertson

**Teaching Pattern:** 2-hr seminars alternate weeks, readings and web-based work program

**Assessment:** 2 assignments (30% and 70%)

**Recommended Texts:** *Your Guide to E-Health*, Yellowlees, UPQ, 2001

**Offered in Courses:** [ M3L ] [ M3H ]

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CXA321 - Immunology

Description: Gives students an understanding of the immune system and its functions. Topics include: defence mechanisms against infectious agents; antigens, antibodies and related immunological substances; diseases of the immune system; application of immunological reactions for the diagnosis and monitoring of disease; or identification of various substances.

Requisites: PREREQ - CXA171, or completion of one year of an approved degree

Staff: Dr M Watts

Teaching Pattern: 2 hrs lecture, 1-hr tutorial weekly (13 wks), 3 hrs practicals (6 wks)

Assessment: theory exams (50%), laboratory reports and assignments (50%)


Recommended Texts: Nairn R & Helbert M, Immunology for Medical Students, Mosby, 2002. ISBN 0723431906

Offered in Courses: [ E3J ] [ M3H ] [ OCS ]

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CXA332 - Haematology 2

Special Note: restricted to students enrolled in M3G

Description: Is a systematic investigation of the anaemias, leukaemias, myeloproliferative disorders and other blood dyscrasias, including laboratory identification and investigations of these conditions.

Requisites: PREREQ - CXA231

Staff: Mr D Heathcote

Teaching Pattern: 3 hrs practical, 2 hrs lectures, 1-hr tutorial weekly

Assessment: Intra-semester exams (10%), Final theory exam (40%), Practical exam (30%) and Practical reports (20%)

Recommended Texts: Rodak BF, Hematology -- Clinical Principles and Applications, 2nd Ed. ISBN 0721684041

Offered in Courses: [ M3G ]

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CXA333 - Transfusion Science

Special Note: restricted to students enrolled in M3G

Description: Covers the major blood group systems of relevance to transfusion, as well as the theoretical basis of common transfusion testing practices. The practical sessions concentrate on the skills of blood grouping, antibody screening and crossmatching. Additionally, the donation of blood products and the management of transfusion services are explored. Haemolytic disease of the newborn and the adverse effects of blood transfusion are also studied in detail.

Requisites: PREREQ - CXA332

Staff: Mr D Heathcote

Teaching Pattern: 3-hr practical, 2-hr lecture, 1-hr tutorial weekly (13 wks)

Assessment: Mid-semester exam (10%), Final theory exam (30%), Practical exam (30%) and Practical reports (30%)


Offered in Courses: [ M3G ]

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CXA337 - Clinical Exercise Testing

Description: This unit teaches a comprehensive range of skills that are important for clinical exercise testing. A theoretical background for clinical exercise testing is provided, with a focus on the validity and specificity of selected exercise tests and procedures. Additionally, students will become familiar with standard preparation, monitoring and recovery procedures for exercise tests. Safety considerations, contraindications to exercise and interpretation of test data are also covered in detail. The lecture content has a very practical focus and the nature of the laboratory classes reflects the environment found in professional testing facilities.

Requisites: PREREQ - CXA237

Staff: Mr. J Fell

Teaching Pattern: 13 x 2-hr lectures and 9 x 3-hr lab classes

Assessment: written lab reports (20%), a practical exam (30%) and a final exam (50%)


Offered in Courses: [ E3J ] [ E4J ] [ M3H ]

Unit Delivery Information:
### CXA342 - Medical Microbiology A

**Special Note:** restricted to students enrolled in M3G  
**Description:** Introduces students to diagnostic medical bacteriology. Skills taught include: processing of clinical specimens, recognition of normal microbiota, identification of pathogens and the undertaking of appropriate antimicrobial susceptibility tests. Students learn: aspects of laboratory safety, epidemiology, pathogenesis and control of infectious diseases; antimicrobial agents and development of resistance; infection control; rapid and automated diagnostic technology; quality control; media preparation and waste management.  
**Requisites:** PREREQ - CXA241  
**Staff:** Mr S Tristram  
**Teaching Pattern:** 2 hrs lectures, 1-hr tutorial, 3 hrs practical weekly (13 wks)  
**Assessment:** practical exams (35%), practical reports (10%), end-of-year theory exam (35%), intra semester tests (20%)  
**Offered in Courses:** [ M3G ]

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### CXA343 - Medical Microbiology B

**Special Note:** restricted to students enrolled in M3G  
**Description:** Builds on CXA342, introducing students to other aspects of diagnostic microbiology, with an emphasis being placed on virology, parasitology and mycology. Aspects of the epidemiology, pathogenesis, control and treatment of infectious diseases are addressed; a knowledge of diagnostic laboratory procedures including rapid and automated methods is developed; and good professional laboratory practice including laboratory safety, waste management and quality control are taught.  
**Requisites:** PREREQ - CXA241  
**Staff:** Mr S Tristram  
**Teaching Pattern:** 2 hrs lectures, 1-hr tutorial, 3 hrs practical weekly (13 wks)  
**Assessment:** Case presentation (15%) intra-semester tests (25%), theory exams (30%), final practical exam (30%)  
**Offered in Courses:** [ M3G ]

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### CXA352 - Clinical Chemistry 2

**Special Note:** restricted to students enrolled in M3G and M3H  
**Description:** Teaches the clinical significance of the current state of analytical testing and analytical methods employed to assess the following; liver function; carbohydrate metabolism, diabetes, lipid and lipoprotein metabolism, iron status and protein abnormalities.  
**Requisites:** PREREQ - CXA251  
**Staff:** Mr DA Kunde (coordinator and others)  
**Teaching Pattern:** 2 hrs lecture, 1-hr tutorial, 3 hrs practical weekly (12 wks)  
**Assessment:** practical and theory exams (55%), laboratory report and assignments (45%)  
**Offered in Courses:** [ M3G ] [ M3H ]

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### CXA353 - Clinical Chemistry 3 (Endocrinology)

**Special Note:** restricted to students enrolled in M3G and M3H  
**Description:** Gives an understanding of the metabolism and function of hormones; and includes: the laboratory investigation of disorders of hormonal function including thyroid, pituitary, adrenal, hypothalamic, ovarian, testicular and renal hormones; the use of tumour markers in oncology, and other specialised aspects of clinical chemistry tests.  
**Requisites:** PREREQ - CXA352  
**Staff:** Mr Dale Kunde  
**Teaching Pattern:** 2 hrs lecture; 2-hr tutorial, or 3-hr laboratory/case study session (alternate weeks) for 13 weeks  
**Assessment:** Final theory exam (50%), laboratory reports and case studies assessments (40%) and journal presentation (10%)  
**Offered in Courses:** [ M3G ] [ M3H ]

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CXA385 - Nutrition and Disease
Description: Builds on foundations taught in CXA237 Exercise Physiology & Nutrition. Students obtain an increased understanding of metabolism in the human body and the role of carbohydrates, fats, proteins and minerals in both health and under physiological stress of exercise and disease. The unit will cover a range of nutritional problems in the population, such as alcohol excess and undernutrition, and the role of nutrition in the prevention and management of chronic diseases, such as cardiovascular disease, diabetes and some cancers.
Requisites: PREREQ - CXA273 and CXA237
Staff: Mr Andrew Williams, Prof M Ball
Teaching Pattern: 2 hrs lecture/seminar weekly, 3 practical sessions
Assessment: final exam (55%), continuous assessment (45%)
Offered in Courses: [ E3J ] [ E4J ] [ M3H ] [ OCS ] [ S3I ]

CXA386 - Research and Topics in Health Sciences
Description: Introduces students to the types of research which inform our understanding of normal and abnormal functions of the human body and of treatment and preventative health care. The unit will also cover basic pharmacological principles, the use of drugs as therapeutic agents and their misuse, including the issues of drug usage in sport. Issues of current interest in biomedical, health and sports science will also be addressed.
Requisites: PREREQ - CXA273
Staff: Assoc Prof DP Geraghty, Prof M Ball, Dr A Davies
Teaching Pattern: 2 to 3 hrs lectures weekly, 3x2-hr practicals
Assessment: exam (50%), summary of seminars (10%), 2 x assignments (25% and 15%)
Offered in Courses: [ E3J ] [ M3G ] [ M3L ] [ M3H ] [ OCS ] [ S3I ]

CXA401 - Medical Laboratory Practice 3
Special Note: restricted to students enrolled in M3G
Description: Has two objectives: (a) to use the knowledge and experience gained while on clinical placement through the study of a variety of patient test results. This is carried out using the problem-based learning approach; and (b) to develop a holistic view of laboratory function and disease diagnosis, with consideration given to the socio-economic constraints, as well as medico-legal, accreditation and ethical aspects. The seminars focus on this objective by using a variety of senior medical scientists employed within the Tasmanian health system to share their expertise with the students.
Requisites: PREREQ - completion of all third-year units COREQ - CXA425 or CXA412
Staff: D Heathcote (Coordinator), D Kunde, S Tristram, and invited guest lecturers
Teaching Pattern: 2 wks concentrated seminars and presentations
Assessment: case history presentations (40%), assignment (10%), 3-hr exam (50%)
Offered in Courses: [ M3G ]

CXA412 - Professional Practice
Description: This unit is an advanced clinical teaching program where the student participates in various pathology disciplines throughout the State. Students gain experience in the use of various analysers within the clinical laboratory, improve their bench skills, and further their microscopy abilities in a number of areas. Clinical teaching activities include case studies where the relevance of results can be acquired. Also the importance of quality assurance can be appreciated first hand. Unit objectives are: (1) to develop and enhance proficiency in both diagnostic and clinical medical laboratory sciences; (2) to develop a practical knowledge and understanding of the working of the modern clinical laboratory; (3) to become familiar with the organizational structure (including accreditation requirements), and the importance of ethics and professionalism in the laboratory.
Requisites: PREREQ - Completion of all M3G third year units COREQ - CXA401
Staff: Mr D. Heathcote
Teaching Pattern: 4 weeks of Professional Practice normally in a category 1 NATA-Registered Pathology Laboratory or international equivalent. Students are rostered to various Pathology Practices to gain clinical experience.
Assessment: Reports from supervisors (60%), student diary (40%)

**Offered in Courses:** [M3G]

**Unit Delivery Information:**

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**CXA420 - Bachelor of Biomedical Science (Honours)**

**Special Note:** On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CXA423. Students enrol in CXA420, CXA421, CXA422 and CXA423.

**Description:** The honours degree is designed to provide students with the foundations necessary for research in Biomedical and Health Science, to gain a greater expertise in specific disciplines and to subsequently assume a leadership role in their profession. Students interested in pursuing the honours course should contact the School of Human Life Sciences.

**Staff:** Assoc Prof D Geraghty (Coordinator)

**Assessment:** assignments, exam for some components, literature review, oral presentation and thesis

**Offered in Courses:** [M4E]

**Unit Delivery Information:**

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**CXA421 - Bachelor of Biomedical Science (Honours)**

**Special Note:** On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CXA423. Students enrol in CXA420, CXA421, CXA422 and CXA423.

**Description:** The honours degree is designed to provide students with the foundations necessary for research in Biomedical and Health Science, to gain a greater expertise in specific disciplines and to subsequently assume a leadership role in their profession. Students interested in pursuing the honours course should contact the School of Human Life Sciences.

**Staff:** Assoc Prof D Geraghty (Coordinator)

**Assessment:** assignments, exam for some components, literature review, oral presentation and thesis

**Offered in Courses:** [M4E]

**Unit Delivery Information:**

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**CXA422 - Bachelor of Biomedical Science (Honours)**

**Special Note:** On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CXA423. Students enrol in CXA420, CXA421, CXA422 and CXA423.

**Description:** The honours degree is designed to provide students with the foundations necessary for research in Biomedical and Health Science, to gain a greater expertise in specific disciplines and to subsequently assume a leadership role in their profession. Students interested in pursuing the honours course should contact the School of Human Life Sciences.

**Staff:** Assoc Prof D Geraghty (Coordinator)

**Assessment:** assignments, exam for some components, literature review, oral presentation and thesis

**Offered in Courses:** [M4E]

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**CXA423 - Bachelor of Biomedical Science (Honours)**

**Special Note:** On completion of this unit students receive a NC result. The final result for this unit is granted on completion of CXA423. Students enrol in CXA420, CXA421, CXA422 and CXA423.

**Description:** The honours degree is designed to provide students with the foundations necessary for research in Biomedical and Health Science, to gain a greater expertise in specific disciplines and to subsequently assume a leadership role in their profession. Students interested in pursuing the honours course should contact the School of Human Life Sciences.

**Staff:** Assoc Prof D Geraghty (Coordinator)

**Assessment:** assignments, exam for some components, literature review, oral presentation and thesis

**Offered in Courses:** [M4E]

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**CXA425 - Professional Practice**

**Description:** This unit is an advanced clinical teaching program where the student participates in various pathology disciplines throughout the State. Students gain experience in the use of various analysers within the clinical laboratory, improve their bench skills, and further their microscopy abilities in a number of areas. Clinical teaching activities include case studies where the relevance of results can be acquired. Also the importance of quality assurance can be appreciated first hand. Unit objectives are: (1) to develop and enhance proficiency in both
diagnostic and clinical medical laboratory sciences; (2) to develop a practical knowledge and understanding of the working of the modern clinical laboratory; (3) to become familiar with the organizational structure (Including accreditation requirements), and the importance of ethics and professionalism in the laboratory.

**Requisites:** PREREQ - Completion of all M3G third year units COREQ - CXA401

**Staff:** Mr D Heathcote (coordinator)

**Teaching Pattern:** 10 weeks of Professional Practice normally in a category 1 NATA-Registered Pathology Laboratory or international equivalent. Students are rostered to various Pathology Practices to gain clinical experience.

**Assessment:** Reports from supervisors (60%), student diary (40%)

**Offered in Courses:** [ M3G ]

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**CXA437 - Advanced Physiology and Nutrition (Unit not offered in 2006)**

**Description:** This is an advanced unit in health and exercise physiology that builds on the material covered in CXA237 *Exercise Physiology and Nutrition*. The unit draws most of its information from research articles in the main and emerging areas of research in health and exercise physiology. The topics covered include ergogenic aids, sports medicine, exercise immunology, limitations to exercise performance, endocrine function, sites of fatigue, nutrition, sports medicine and genetics in exercise physiology.

**Requisites:** PREREQ - CXA237

**Staff:** Dr D Dwyer

**Teaching Pattern:** 13 x 3-hr lecture/tutorial classes

**Assessment:** Attendance (10%), Essay tutorial assignment (5%), oral presentation (20%), an essay (20%) and a written review of the literature (45%)

**Offered in Courses:** [ E3J ] [ E4J ] [ M3H ]

### CXA465 - Honours Seminar and Dissertation

**Description:** The unit is the equivalent of ESP465 *Honours Seminar and Dissertation* and is only offered to Bachelor of Human Movement honours students who are taking the Exercise and Sports Science major. The BHMS Honours program comprises two units of instruction -- ESP460 (Research Seminar) and the present unit. Weightings of these two units are 12.5% and 25% respectively. The successful proposal/defence for ESP460 *Research Seminar*, serves as an admission requirement for * CAXA465 Honours Seminar and Dissertation*, where students conduct, report and submit their research findings. This unit assists students in conducting and reporting the research project by completing the collection and analysis of data and preparation of a dissertation and a manuscript for submission to a journal.

**Requisites:** PREREQ - ESP460

**Staff:** Mr J Fell

**Teaching Pattern:** 30 hrs of consultations

**Assessment:** dissertation assessed by 3 examiners

**Required Texts:** None


**Offered in Courses:** [ E4J ]

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