Subject, units, courses and any arrangements for courses including staff, as stated in the Handbook or other publication, announcement or advice of the University, are an expression of intent only and are not to be taken as a firm offer or undertaking. The University reserves the right to discontinue or vary such subjects, units, courses, arrangements or staffing at any time without notice.

The information contained in this Handbook was current as at October 1994. Its contents are as accurate and detailed as possible at that time.

Publications
Further information about the Faculty of Health Sciences, is in the following publications which are available from the Secretariat:

The University of Sydney Annual Report
The University of Sydney Research Report

General Inquiries
General inquiries for staff and services in the Faculty of Health Sciences and on Cumberland College campus may be made by telephone (02) 646-6444, fax (02) 646-4853 or the addresses below.

Course Information
Further information about all courses offered by the Faculty of Health Sciences may be obtained by contacting Student Services Division (Cumberland), by telephone (02) 646-6356, fax (02) 646-6412 or the address below. For other courses offered by the University, refer to the Student Centre (02) 351 3013.

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Introduction

This Handbook is the official guide to the Faculty of Health Sciences located at Cumberland College Campus of the University of Sydney.

The Handbook was prepared in advance of the 1995 academic year to maximise its usefulness as a reference to students, to staff, and to the many associates of the Faculty, particularly those who contribute to the clinical education of students.

The charter of the Faculty is to provide competent practitioners in the health professions. The aims are for excellence in clinical and academic teaching and in research.

The fields encompassed by the Faculty are:

- Aboriginal Health and Community Development
- Community Health
- Diagnostic Radiography
- Diversional Therapy
- Exercise and Sport Sciences
- Gerontology
- Health Information Management
- Health Science Education
- Nuclear Medicine Technology
- Occupational Therapy
- Orthoptics
- Physiotherapy
- Rehabilitation Counselling
- Speech Pathology
- Therapeutic Radiography
- Ultrasonography

For further details of Nursing programs, prospective students are advised to consult the Faculty of Nursing 1995 Handbook. Telephone enquiries should be directed to the Faculty of Nursing's Cumberland campus (646 6249).
The commencement of each new academic year is a time of excitement when this campus is regenerated by the arrival of new groups of commencing undergraduate students keen and enthusiastic about future careers as health science professionals. Our other new arrivals are commencing postgraduate students for whom the initial goal of professional status has been achieved but who are now further developing their professional roles. The student population on this campus totals nearly 4000 students, comprising a diverse and vital blend of ages, cultures and professional aspirations.

To our new undergraduate students of 1995, I extend a sincere welcome to the Cumberland College campus of the University of Sydney which is home to the Faculty of Health Sciences. Your arrival here marks the start of an academic journey which will challenge you and enhance your professional and personal development; in addition your progress along your academic path is intended to equip you with a range of skills and attributes appropriate to your chosen profession and to foster you as an independent learner capable of flexible thinking, information retrieval and manipulation, critical analysis and problem solving. While specific information may become irrelevant or may change over time, these latter skills and attributes will stand as important constants in your future.

For many of our commencing students, the first year of study may be one that requires major adjustment as you move from a more structured and disciplined secondary setting. Should this transition be difficult, you should be aware that many areas of support, both formal and informal exist, and that the academic, administrative and technical staff of the Schools, the Departments, the Faculty and the College are willing to assist you in relevant ways through this transition. Get to know these channels of support. For our Aboriginal students, support is also available to you through the dedicated staff of the Aboriginal Education Unit of the School of Community Health.

Welcome also to our returning undergraduate students. Congratulations on your success in 1994. During 1995, you will build on your previous year(s) of study and this year should be one that involves not only an increase in your knowledge, but the development of deeper levels of understanding as you integrate knowledge from various times and places and weave richer meaning from your learning experiences.
The Faculty of Health Sciences welcomes its new and returning postgraduate students with pride. You are partners with staff in an important process of enhancing the postgraduate profile of the Faculty of Health Sciences. For those of you undertaking postgraduate course work degrees, your studies will build on your considerable experience and knowledge base and increase your expertise in pertinent areas. For postgraduate students undertaking research studies at Masters or doctoral level, your original research investigations under the guidance of supervising staff will contribute to the theoretical underpinnings of your various professions and may challenge current practice and inform improved clinical intervention. In such cases, your research achievements are important both to you and to your professions.

Life on the Cumberland campus is not all academic sweat and tears but should also include time for sweating over social, cultural and sporting activities. The Students’ Union on this campus is active in its concern for students and is the locus of organisation of many great activities that are available to you. So both enjoy and succeed in the academic year of 1995 - there won’t be another one.

To all our students in the Faculty of Health Sciences, grasp and benefit from the many challenges of this year. You have my sincere best wishes for your professional and personal success in 1995.

Professor Judith Kinnear

Dean & College Principal
The academic year is divided into two semesters, each containing thirteen weeks of teaching, one student study week and two weeks for assessments. There is a recess of six weeks between the two semesters, as well as recesses of one week in each of the semesters.

1 January New Year's Day
26 January Australia Day
17 February Last day to pay compulsory fees
22 February Orientation Day 1 (on Broadway campus)
23 February Orientation Day 2
24 February Orientation Day 3

Semester 1 (14 weeks) 27 February - 9 June
10 March Last day for new students to commence enrolment
17 March Last day to pay semester 1 HECS
30 March Last day to complete enrolment/re-enrolment and to request Variation of Course, Leave of Absence or Discontinuation to apply from Semester 1 Census Date
Last day to request Discontinuation from Semester 1 subjects without failure
31 March Semester 1 Census Date for Higher Education Contribution Scheme
14 April Good Friday
15 April Easter Saturday
16 April Easter Sunday
17 April Easter Monday

Autumn Recess 18 April - 21 April
25 April Anzac Day
28 April Day by which all students should have received their Confirmation of Enrolment and Notice of HECS Liability for Semester 1
12 June Queen's Birthday Holiday

Assessment Period 13 June - 24 June
Inter-Semester Recess 26 June - 6 August
31 July Post/Deferred Assessments commence

Semester 2 (14 weeks) 7 August - 17 November
25 August Last day to pay Semester 2 HECS
30 August Last day to request Variation of Course, Leave of Absence, or Discontinuation to apply from Semester 2 Census Date Last day to request Discontinuation from full-year and/or Semester 2 subjects without failure
31 August Semester 2 Census Date for Higher Education Contribution Scheme
29 September Date by which all students should have received their Confirmation of Enrolment and Notice of HECS Liability for Semester 2

Spring Recess 25 September - 29 September
2 October Labour Day Holiday

Assessment Period 20 November - 2 December
Christmas Recess 4 December - 25 February, 1996
8 January, 1996 Post/Deferred Assessments commence
1  Academic and Associated Staff

FACULTY OF HEALTH SCIENCES

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Carolyn Smale, DipPhty GradDip ManipTher Cumb.
Patricia C. Westwood, BSc N.S.W. GradDipPhty Cumb. MAAppSc
Vicki K. Williams, BAppSc Cumb. MEd N.S.W.
Alison F. Wright, DipPhty MAppSc Cumb.

Associate Lecturers
Evelyn I. Argall, BAppSc Cumb.
Elizabeth Bird, BAppSc Cumb. MEd N.S.W.
Catherine Johnston, BAppSc Phty Cumb.
Deborah Partridge BAppSc Cumb. MHISeD Cumb.

Department of Behavioural Sciences

Head of Department
Associate Professor John L. Sheppard, MA (Hons) DipEd N.E. PhD Ncle N.S.W.

Associate Professor
Mary T. Westbrook, BA (Hons) MA (Hons) PhD Macq.

Senior Lecturers
Barbara G. Adamson, BA (Hons) DipEd NE, PhD
Rosemary V. Cant, BEd MEd W.A., PhD Ncle.
Malcolm C. CoUess, BSc (Hons) N.S.W. MA (Hons) Macq. BA MEd (Hons)
Geoffrey J. Cooke, BA N.E. MEd (Hons) PhD Tor.
Margaret M. Hand, BA PhD N.S.W.
Varoe Legge, BA (Hons) DipPhty MA Macq. PhD N.S.W.
Reginald A. Mitchell, MScMacq. DipAppScCumb. BSc MEd PhD
Carmen Moran, BA (Hons) PhD N.S.W.
Ian A. Robertson, Teach Cert BA, MEd (Hons)
Gerard Sullivan, BBS(Hons) DipEd La Trobe MA PhD Hawaii

Lecturers
Kathy Clapham, BA(Hons) PhD
Peter P. Choo, BA Pacific Union BEd PhD W.A.
Ann Hale, BA(Hons) Macq.
Lynne Harris, BSc (Hons) PhD N.S.W.
Robert C. Heard, BA(Hons) PhD
Alan Jones, BA Macq. DipSpEd Kuring-gai C.A.E.
Dianna T. Kenny, MA Macq. DipEd BA (Hons) PhD

Doris McIlwain, BA(Hons) Otago PhD
Ross G. Menzies, BSc (Hons) PhD N.S.W.
Liselott E. Muhlen-Schulte, BA MA DipPsychol
Gomathi Sitharthan, MA M Phil. Madras PhD
Jeanna Sutton, BA(Hons) DipCrim. PhD N.S.W. BLegS Macq.
Helen D. Waite, Dip Phys Ed(Hons) STC BA(Hons) PhD Macq.

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Michael Hough, BSc(Hons) W.A. PhD A.N.U. DipSocSc N.E.
Dennis McIntyre, BA (Hons), Nele Dip Teach Nele CAE
Kate M. O’Loughlin, BA(Hons) Macq.
Rosemary A. Pynor, BBS(Hons) La Trobe
Wei Wang, BEd East China Normal Unl, PhD Wollongong

Administrative Assistant
Vacant

Department of Biomedical Sciences

Head of Department
Professor John R. Sutton, DSc MD FRACP RGS

Anatomy Division

Senior Lecturers
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Karen G. Ginn, BSc N.S.W. DipPhty GradDipManipTher Cumb. DipTertEd N.E. MHPED N.S.W.
Ponnambalam Sivanandasingham, MB BS Ceyl. PhD Lond.
Hoang Tran-Dinh, MD Saigon DipAnat A.S.A.N.Z. AMC Cumb.

Lecturers
Ann M.C. Murphy, BSc(Hons) Qld. MSc Auck. PhD Qld.
Helen E. Ritchie, BSc Qld. MSc
Margaret Torode, DipTeach Dentin BAppSc PIT MSc PhD Oregon
Svetlana Warton, MSc Moscow State PhD USSR Academy of Science Moscow
Patricia Weerakoon, MB BS Ceyl. MS Hawaii
Catherine Willis, MSc N.S.W. DipPhty Cumb. DipTertEd N.E.

Associate Lecturers
Philip Owen, BSc N.S.W. ARMIT ATTL
Elizabeth Tracey, BSc (Hons) W.A.

Applied Physiology Division

Associate Professor
Greg C. Gass, MSc PhD El. DipTeach Auck.

Senior Lecturers
Glen M. Davis, BPE Off. MA(PE) W.Ont. PhD Toronto
Martin W. Thompson, DipPE TSTC Melb. AdvDipPE Leeds MSc Lough. PhD Lond. (Head of Division)

Lecturers
Mike Climstein, MSc Utah State PhD Oregon State
Thomas H. Gwin, BAppSc Cumb. BSc Sydney

Biomechanics Division

Senior Lecturer
Richard M. Smith, BSc N.S.W. Dip Ed MSc Macq. MEd Manch. MA Macq. (Head of Division)
Lecturers
Michael S. Lee, BE N.S.W. BAppSc Cumb. MBiomedEN.S. W.
Peter Sinclair, MEd BPE (Hons) W.A.
Wendy L. Gdeard, BAppSc (Biomed) N.S.W. I.r. MSc (Hons)
Wollongong

Physical Sciences Division

Senior Lecturer
Jennifer M. Lingard, BSc (Hons) Old. PhD MBA U.T.S.
(Head of Division)
Fazlul Huq, BSc(Hons) MSc Dhaka PhD Land. IIIIC DipEd M.C.A.E. FRSC

Lecturers
Margaret A.C. Bermingham, MSc N.U.I. PhD Lond.
Ian Cathers, BSc(Hons) DipEd S.T.C., MBiomedEN.S. W.
Harkirat S. Dhindsa, MSc Kukuk BEd Punj. MEd HPMS EdD Col
Dana Strain, BS Purdue MSc DipTertEd N.E.
Gilbert J. Vella, BSc(Hons) PhD N.S.W. DipEd S.T.C.

Associate Lecturer
Nasreen Ghani, BSc(Hons) Dhaka MSc N.S.W. DipEd N.E.

Physiology Division

Principal Lecturer
Ronald J. Balnave, BSc PhD N.S. W.

Senior Lecturers
John A. Burne, BSc(Hons) PhD DipEd N.E.
Alan W. Freeman, BS (Hons) MSc PhD Mbelh.
Elizbeth J. Post, BSc PhD
Patricia D.C. Woodman, MSc PhD

Lecturers
Laura C. Batmanian, BSc(Hons) PhD Melb.
Chin M. Chow, MSc Otago PhD
Elizabeth Hagedus, BSc(Hons)I Tas PhD N.S.W.
Peter K. Knight, BVSc PhD
Gary M. Lee, BSc PhD N.S.W. M.BA UCQ (Acting Head of Division)
A. Bulent Turman, MD Aegean PhD N.S.W.
May B.E. Wong, MSc N.E. DipTerEdN.S.W. DipTertEdN.E. MHPed N.S.W.

Associate Lecturer
Matthew J. Coleman, BSc (Hons)

Professional Officers
Ronald D. Avery, AIST
Patricia A. Ruell, BSc
Timothy J. Turner, BAppSc N.S.W.I.T. MAppSc U.T.S.

Administrative Assistant
Linda Dewar

Centres

Cumberland Health Research Centre

Director
Dianne Kitcher, BEd PE&HE

Medical Director
Professor John R. Sutton, MD FRACP FRGS

Administration

Office Manager
Trixie Gill

Occupational Health Program

Unit Manager
Jennifer Fry, BAppSc (Occ Ther) Prac GradDip Occ Hlth

Occupational Therapists
Sandra Caust, BAppSc (Occ Ther) (Driving Rehabilitation)
Rosemary Wood, BAppSc OT Cumb.
vacant (Occupational Health)

Psychologists
Sharon Bent, BA (Hons) Psysc
Kate McPherson, B B Sc. M Psych

Physiotherapist
Pauline Chan, BSc N.S.W. GradDipPT Cumb.
GradDipManipTh W.A.

Corporate Health Consultant
Roxanne Kitchener, BHMS (Ed)

Audiologist
Janette Brazel, BA Dip Aud Cumb.

Rehabilitation Counsellor
Margaret Elken, Dip. Phty Rehab Clng

Driving Instructors
Shona Blanchette, Dip Plys Ed T.S.T.C
Brian Watson

Sports Clinic

Consulting Sports Physicians
Grace Bryant, GradDipSpSc Cumb. MBBS

Consulting Orthopaedic Surgeons
Mark Perko, MBBS FRACS

Consulting Radiologist
Brian Hammond, FRACR

Consulting Sports Physiotherapists
Andrew Hughes, BAppSc PT
Rob Wallis, BAppSc PT
Nicole Clements, BAppSc PT

Consulting Sports Psychologists
Michael Martin, BA DipEd BAppSc(Human Movement) MA San Diego State, PhD

Sports Physiologist
Herb Groeller, BEd MSc (Hons)

Consulting Dietitian
Helen O’Connor, BSc Dip ND

Consulting Masseur
Peter Butler, DTM

Rehabilitation Research Centre

Associate Professor Greg C. Gass, MSc PhD III. DipTeach Auck.
Elizabeth M. Gass, BAppSc MAppSc Cumb. DipPhty
Administration

Principal
Professor Judith Kinnear, MSc PhD Melb.
GradDipComputerSim SIT BEd La Trobe

Special Projects
Lester D. Crow, CPA

Administrative Officer
Claire Essery, BA DMS (Hons) Ulster
Secretary to the College Principal
Margaret Kennedy

College Secretary
Hugh V. Brandon, BComm Wollongong AAIM CPA
Secretary to the College Secretary
Maureen Marchant

Building & Grounds Division

Head
Phillip Sorbello

Senior Works Supervisor
John Sommers

Biomedical Engineer
John Eisenhuth, BAppPhys N.S.W.I.T.

Grounds Manager
Brian Crick

Finance Division

Head
Pamela Wray, BBus U.T.S.

Administrative Officer
Terence Kennedy

Purchasing Officer
Barrie Kerr

Pay Officer
Debbie Hart, MNIA

Information Technology Services Division

Head
Jeffrey P. Hoffman, BAppSc(CompSc) N.S.W.I.T.

Analyst/Programmers
Luke Brennan
Prakash Chordia, MSc(Tech) BITS Pilani
Luis Gutierrez
John Woods

Operations Supervisor
Glenn Russell

User Support Officers
Susanna Torok, DipBus IFAB. Hung.
Anthony Castillo

Personnel Services Division

Director
Michael J. Brereton, DPE S.T.C. BA Macq. MEd

Personnel Officer
John D. Payne

Production Services

Acting Head
Ian J. McAulay

Graphics Supervisor
Raymond L. Howard, BACom N.S.W.I.T. MA (Ed&Work) Macq.

Photography
David Robertson

Printery Supervisor
Dianne Gillespie

Property Services Division

Head
Sharon Vaughan

Administrative Assistant
David Ryan

House Services Manager
Bruce Murray

Officer in Charge Registry
vacant

Residential Supervisor
Sharon Aitchison

Student Services Division

Director
Kenneth J. Wade, BScN.S.W. MEd Admin U.N.E DipEd PhD

Student Administration Officer
vacant

Admissions Officer
Brenda L. Parkinson

Examinations Officer
Rhonda D. Facer

Planning Officer
Inga Jacobsson, PhD Gothenburg BA (Hons)

Advisory Centre for Overseas Students (ACOS)
Cumberland College ELICOS Centre

Head
Mary Stewart, BA (Hons) DipEd NcLe AdvDipEd MEd (TEFL) H.K.

Tutor/Welfare Officer
May Thet Tun, BA MA U. Mandalay GradDipTEM MA Macq.

Tutors
Andrea Chan MA (Hons) NZ MA ANU PhD RSACertTEFL (Acting)
Rosalie Thomson LicDip S&D GradDipSC U.W.S GradCertTESOL
Marie Clugston BA MLitt MS (Hons) DipContEd UNE RSA CertTEFL

Student Counsellor
vacant
Secretariat

**Acting Head**
Lester D. Crow CPA

**Administrative Officer**
Mary C. Dinh, BA CertEd Tas.

**EEO Coordinator**
Carl Webster, BSc Wales DipAc

Continuing Professional Education and Conference Unit

**Programme Coordinators**
Kim Davis, BEd (Adult) LTT.S. CertWelfare AssDipAdEd U.T.S.
Shan I. Wolody, DipAdEd S.C.A.E. BSocStud

College Library

**College Librarian**
Pamela J. Pitkeathly, BA N.E. DipLib MEd C.C.A.E. MA(Hons) Macq. AALIA

**Senior Librarians**
Stephen T.K. Chan, BSocSc H.K. DipLib N.S.W. MBA U.T.S. AALIA
vacant

**Librarians**
John Paul Cenzato, BA N.S.W. GradDipLibSc K.C.A.E.
Lynne Flanigan, BA(LIS) C. Sturt
Garry Hamilton, BA DiplIMLib N.S.W. AALIA
Kushum L. Karan, BA (LIS) Can. AALIA
Dorothy Kass, BA DipLib. N.S.W. DipEd AALIA
Dawn Payoe, BSc(Econ) Lond. GradDipLibSc K.C.A.E. ACIS AALIA
Elaine Y. L. Tarn, Teach. Cert. H.K. BEd Nott. DiplIMLib MLib. N.S.W.
Carol Stevens, BEd GradDipLibSc K.C.A.E.
Julie Thorndyke, BA (LibSc) K.C.A.E. BA (English Lit.) Macq. AALIA

Unless otherwise specified, the qualifications listed are from the University of Sydney.
History
In 1970, a Report of the then New South Wales Advanced Education Board recommended that a corporate College of Advanced Education be established specifically to:

- foster the development of paramedical education in New South Wales having regard to the needs of the community;
- provide courses and to grant awards to students reaching the standards set by the College;
- encourage the effective teaching and provide opportunities for the professional development of the teaching staff; and
- provide and maintain physical facilities for this teaching and research.

On 1st July, 1973, the College formally commenced operation when its establishment was gazetted by the State Government. Incorporation within the Higher Education Act was constituted on and from 1st October, 1974.

The College assumed the responsibility for three-year full time courses in physiotherapy, occupational therapy, and speech therapy and a two-year full time course in orthoptics. Post-registration nursing courses previously conducted by the N.S.W. College of Nursing were included from 1975.

The College was initially named "New South Wales College of Paramedical Studies" however, early in 1974, the Interim Council recommended that the name be changed. When the Colleges of Advanced Education Act was passed in 1975, the name was changed to "Cumberland College of Health Sciences".

From its earliest days, Cumberland College aimed for excellence and adopted a leadership role. The College pioneered the development of basic nursing studies in the academic setting and it convened a first National Health Sciences Education Conference.

After the beginning years of operation in five inner city campuses with rented premises, a site at East Street, Lidcombe was ready for occupancy from 1st July, 1978.

It was on 26 October, 1979, that His Excellency Sir Zelman Cowen, A.K., G.C.M.G., K.St.J., Q.C., the then Governor-General of the Commonwealth of Australia, officially opened the College.

Since that time, Cumberland College has grown rapidly. The numbers of both staff and students have more than doubled. Course development and course reviews have enhanced the College's academic profile. The first Master's degrees have been awarded, and additional specialty courses commenced in Diversional Therapy, Medical Radiation Technology and Community Health. In 1984, the College commenced teaching the Aboriginal Health and Community Development course, and in 1985, it introduced the first interdisciplinary graduate diploma programme.

In many respects the attainment of institutional accreditation status at the end of 1986 was the culmination of the College's first decade of endeavour for academic excellence. This is now recognised internationally. The fifteenth anniversary of the establishment of the College was commemorated by hosting an International Conference on Health Sciences Education.

In 1989, State government legislation, in response to the Federal Government's introduction of a Unified National System of Higher Education, dissolved the corporate college and re-established it as an Academic College of the University of Sydney with effect from 1 January, 1990. On 28 October, 1991, the academic activities and staff of the College were established as the Faculty of Health Sciences in the University of Sydney, with the associated appointment of a Dean.

The involvement in PhD programmes from 1990 is a highlight of the amalgamation with the University of Sydney.

As from the 1st January 1994, the School of Nursing, Faculty of Health Sciences was integrated into the Faculty of Nursing. Following this integration, the Faculty will offer undergraduate and postgraduate programs on both the Mallet Street (Camperdown) and Cumberland campuses.

Objectives
The primary objectives of the Faculty are:

- Teaching in the clinical and academic aspects of the health sciences at both undergraduate and graduate levels; and
- Research in the clinical and related aspects of the health sciences.

The supporting objectives are:

- Facilitation of interdisciplinary study, research and discussion with academic and clinical colleagues through continuing education programmes, symposia, workshops, conferences and staff and student exchange activity.
- Provision of specialised services and advice to disabled and disadvantaged people and agencies (both voluntary and government) within the context of the Faculty's academic, teaching and research expertise and purpose.
- Provision of advice, consultancies and applied research programmes to government, commercial and business organisations which share the Faculty's common interest in health and health sciences.
- Development of relationships with international agencies and governments which seek to utilise the expert service and advice of the Faculty, within the context of the Faculty's teaching mission and purpose.
Academic Governance
On 2nd September 1991 Senate resolved to approve the establishment of the Faculty of Health Sciences and approve the title of Dean and College Principal, to take effect from 28th October 1991.

Constitution of the Faculty of Health Sciences
1. The Faculty of Health Sciences shall comprise the following persons:
   a) the Professors, Associate Professors, Heads of Schools Departments, Readers, Principal Lecturers, Senior Lecturers, Lecturers, Senior Tutors and Tutors who are full-time or fractional (50% or greater) permanent or temporary (contract) members of the teaching staff of the schools and departments placed under the supervision of the Faculty of Health Sciences;
   b) the Deans of the Faculties of Arts, Medicine, Nursing and Science or their nominees and the Head of the Department of Social Work and Social Policy or nominee;
   c) five students enrolled as candidates for undergraduate degrees or diplomas offered by the Faculty, and one student enrolled as a candidate for a postgraduate degree or diploma offered by the Faculty;
   d) full-time and fractional (50% or greater) permanent or temporary (contract) members of the research staff of the Departments, Schools and Centres of the Faculty who are appointed as Research Fellow and above;
   e) not more than three persons who are distinguished in a field of Health Science appointed by the Faculty on the nomination of the Chair of the Faculty;
   f) the College Librarian and the Director of Student Services;
   g) four members of the staff of the Cumberland College, who have a close and appropriate association with its work of teaching and research.
2. The Faculty shall encourage teaching, scholarship and research in the Departments, Schools and Centres that the Vice-Chancellor has determined shall be placed under the supervision of the Faculty of Health Sciences and shall have the same powers and functions as are specified for faculties by resolution of the Senate.

Structure
The Faculty's academic structure comprises two Departments (Biomedical Sciences and Behavioural Sciences) and seven professional Schools:
- Communication Disorders
- Community Health
- Health Information Management
- Medical Radiation Technology
- Occupational Therapy
- Orthoptics
- Physiotherapy

The College's administrative structure comprises seven divisions:
- Finance
- Personnel Services
- Student Services
- Property Services Division
- Building & Grounds Division
- Secretariat
- Information Technology Services Division

The College Library provides facilities and information services to support all academic programs run on this campus and is networked to other research libraries.

Centres
The Cumberland Health and Research Centre
The Cumberland Health and Research Centre is the commercial arm of the Faculty of Health Sciences, The University of Sydney, bringing together the Faculty's resources and research facilities to provide a comprehensive range of quality health services.

Cumberland Health and Research Centre is the place where research, theory and practical experience combine. Knowledge and expertise developed within the University are coordinated by professionals with many years of practical experience in health care. A multidisciplinary team provides a variety of programs for business, sports people and the general community including:
- Occupational Health and Rehabilitation
- Corporate Health
- Driver Rehabilitation
- Hearing Rehabilitation
- Sports Clinic
- Sports Science

The team approach is an important part of our service because it maximises cross referral and communication. The expertise and all the resources for complete health care are within the one campus. Clients do not need to visit several places for different tests, other opinions or further care.

The team includes occupational therapists, physiotherapists, exercise physiologists, psychologists, driving instructors, health promotion specialists, audiologists, doctors, radiologists, orthoptists, dietitians, masseurs, specialist physicians, orthopaedic surgeons and rehabilitation counsellors.

Cumberland Health and Research Centre is administered by a Board of academic members of The University of Sydney. The Board includes the Head of the Department within the Faculty of Health Sciences plus invited specialists. Individual programs are coordinated by health professionals regarded as leaders in their fields.
Rehabilitation Research Centre
In March 1989, the Rehabilitation Research Centre was established with the charter to raise research productivity in the area of rehabilitation. Given that research in rehabilitation has impact on the scientific, clinical and professional communities, it is appropriate that a Rehabilitation Research Centre should have clear and achievable research, educational and promotional functions.

The research objectives for the Centre are to:
• Increase research productivity, publication and scholarship in the area of rehabilitation;
• Stimulate and provide training programmes for beginning researchers, and clinicians;
• Attract eminent rehabilitation researchers;
• Provide stimulating research environments for postgraduate students;
• Organise and conduct national and international symposia on Rehabilitation;
• Provide a limited, but high quality rehabilitation service for patient assessment.

WHO Regional Collaborating Centre for Rehabilitation
The World Health Organization (WHO) designated the College as a Regional Collaborating Centre for Rehabilitation in 1983. The functions of the Centre for Rehabilitation are to:
• Develop or adapt curricula and training materials for various categories of personnel needed for community rehabilitation programmes
• Assist in organising and conducting relevant teaching programmes or courses in the Western Pacific Region
• Provide expert advice on rehabilitation training to WHO and countries as required
• Make available training resources for selected personnel
• Prepare appropriate materials and aids
• Conduct relevant studies of education methodology

Faculty staff contribute to activities for the WHO through the Centre and through other international programmes. They also contribute to the work of other international agencies such as UNICEF.

Inter-Institutional Agreements
The Faculty has developed links with the following institutions:
• The Chinese Academy of Medical Sciences, Beijing, Peoples Republic of China
• Hong Kong Polytechnic, Hong Kong
• Mahidol University, Thailand
• Southern Illinois University, Carbondale, U.S.A.
• Sun Yat-sen University of Medical Sciences, Guangzhou, Peoples Republic of China
• The Queens College, Glasgow, Scotland
• The University of Indonesia, Jakarta, Indonesia
• The University of Hawaii
• Chiangmai University, Thailand
• College of Higher Education, Solomon Islands

The inter-institutional links are designed to strengthen the bonds between academic communities and, in the process, contribute to greater understanding and communication between cultures.

Programs of cooperation involve exchange of information, faculty and where appropriate students, in a variety of educational development and research initiatives.
General Admission Requirements
The courses offered by the Faculty are in the general field of the health sciences. The following details are a guide to the admission requirements of the University. They indicate the minimum requirements for admission but do not ensure admission to the course.

While there are no specific subject prerequisites for entry to any course, students are strongly advised that all courses are presented on the assumption that students possess a high level of competency in English. This is particularly the case in respect of clinical education/field experience subjects. Practising health professionals require a high level of verbal and written communication skills in order not to place any client/patient at risk. The Faculty is sufficiently concerned about this area of skill development that students may be encouraged to take advantage of relevant support programs offered in the University.

Generally, applicants for admission to the undergraduate courses are considered on the basis of the New South Wales Higher School Certificate or equivalent.

The University also considers applications from INTERNATIONAL and MATURE AGE applicants.

In addition, the Faculty supports a special entry scheme to assist in meeting the health needs of the State's multicultural society and also recognises that Aboriginal students have unique talents and special needs and therefore, special entry provisions have been approved for Aboriginal students seeking entry to Faculty courses.

Specific provision relating to Admission and Enrolment is contained in the University Calendar, By-Laws Chapter 10 and Resolutions of Senate. Particular enquiries should be directed to the Student Services Division (Cumberland).

Students applying on the basis of the NSW Higher School Certificate
Applicants for admission to the University must present at least ten units in recognised admission subjects (including two units from a course in English) at the one New South Wales Higher School Certificate examination and obtain a rank of the aggregate of the best ten units presented at that examination which equals or exceeds a minimum rank as determined from time to time by the Faculty. The rank of the aggregate used for selection will be based on the average mark of the examination result and the moderated school assessment for each course attempted, using the University of Sydney's iterative scaling process. The mark for English will not be compulsorily included in the aggregate.

For 1995, an applicant must have attained a Tertiary Entrance Rank of at least 52.00.

The subjects listed in the University Calendar and such other subjects as may be approved by the University, from time to time, shall be recognised admission subjects.

There will be no specific subject prerequisites for admission to any undergraduate courses and there will be no restriction on the number of 2 unit general or 2 unit Z courses which may be included in the TER. Applicants are advised, however, that not all such courses are appropriate preparation for tertiary study.

The University reserves the rights to alter Higher School Certificate admission criteria.

Overseas Qualifications
Applicants should:
1. have overseas qualifications acceptable to the University (any applicant applying for admission to the Faculty on the basis of overseas qualifications should submit copies of his/her qualifications to the Faculty for consideration); and
2. provide evidence of English language proficiency acceptable to the University.

Special Admission
The University of Sydney's Special Admission Scheme provides a means of admission for people who:

- are of mature age and who do not meet the standard entry requirements for the University, or
- have experienced serious, long-term disadvantages in pursuit of their education.

To be eligible to apply as a mature age applicant, you must be at least 21 years of age by 1 March of the year of your entry to the University. In most cases it will be necessary to have completed an approved preparation course.

To be eligible to apply as an educationally disadvantaged applicant, you must be able to demonstrate that your educational progress has been affected by circumstances or conditions beyond your control, over a substantial period of time. For instance, you may have suffered from emotional trauma, severe illness or a disability such as impaired vision or hearing, epilepsy, quadriplegia etc. Applicants in this category can be any age, however, applicants who are over 21 will normally be expected to have completed an approved preparation course unless it can be demonstrated that circumstances beyond their control have prevented them from doing so.

Application forms are usually available from the UAC by August each year.
Note carefully the following points:

(a) All applicants must indicate clearly, on the 'Application for Admission' form submitted, that they are applying for Special Admission to the University of Sydney. Please state under which scheme you are applying and check that you have complied with the requirements.

(b) If you are applying as a mature age applicant, then you must indicate your entry qualification (for example, Special Admission Preparation Course, Limited HSC, Tertiary Preparation Course).

(c) If you are applying as an educationally disadvantaged applicant, then you must provide, in addition to your UAC application: A clear explanation of your educational history, stating clearly the reasons which, in your opinion, prevented you from obtaining or completing a satisfactory education or which interfered with 'normal educational progress'. This separate submission should be accompanied by independent supporting documentation (for example, doctor's report) and forwarded directly to the Special Admissions Officer at the University of Sydney by the last working day in November.

Admission based on a Tertiary Record
If you have attended a recognised tertiary institution and have completed one full-time year (or the equivalent part-time) of an Associate Diploma, Diploma, Bachelor's degree or higher qualification, you are not eligible to apply for Special Admission. Instead, you will be considered for selection on the basis of your secondary and tertiary studies.

Special Cases
On the recommendation of the Head of School/Department, the Faculty may, in special cases, recommend an applicant eligible for admission although the applicant has not complied with the requirements set out above, and in so doing, may prescribe the completion of certain requirements before confirming the applicant as being eligible for admission.

Other Requirements
In addition to the above requirements, any applicant may be required to attend the Faculty for an interview and/or complete a questionnaire.

Other Admissions Schemes

Vocational Entry Scheme
For courses which are vocationally oriented, completion of relevant TAFE courses and/or work experience may be taken into consideration.

Multicultural Admission Scheme
The Faculty of Health Sciences will offer a number of places to persons from non-English speaking backgrounds who have recently completed or are undertaking the HSC and who have appropriate language skills and an understanding of the needs of major community groups.

Students who wish to apply for entry through this scheme should lodge the normal application through the Universities Admissions Centre and also lodge an application with the Ethnic Affairs Commission on forms available from either the Commission or Student Services Division (Cumberland).

Aboriginal & Torres Strait Islander Admission Scheme
The Faculty recognises the need for initiatives to ensure Aboriginal entry and participation in courses offered in the Faculty. Up to 5% of places in courses will be made available to suitable Australian Aboriginal and Torres Strait Islander (TSI) applicants.

In addition to the avenues currently available to all students seeking entry into University courses, special provisions are made for ATSI people seeking admission to University courses. In the same way as all other applicants, ATSI applicants are considered under the categories of HSC applicants (category A) and mature age (category B).

HSC applicants
ATSI applicants under this category will be eligible for consideration for admission upon meeting the following requirement:
Completion of the NSW Higher Shool Certificate (or equivalent) with the minimurte TER as set by the Cadigal Program for the course applied for.

Mature age applicants
Applicants under this category must be 21 years of age or over. ATSI applicants under this category will be eligible for consideration for admission upon meeting one or more of the following requirements:

- Completion of an approved tertiary preparation course relevant to the course of study applied for, OR
- Completion or partial completion of an accredited course at a tertiary institution, OR
- Demonstration of, to the satisfaction of the Admissions Committee, a capacity to succeed in course work at University level.

All ATSI applicants who satisfy one or more of these admission requirements and who wish to be considered under the University's Cadigal Program are then eligible for selection.

Support for Aboriginal & Torres Strait Islanders
Aboriginal and TSI students entering awards under the Aboriginal & TSI Special Admission Scheme, participate in the Aboriginal and TSI Health Science Support Program, which is co-ordinated by the Aboriginal Education Unit. The support provided under this Program consists of the following options:

- preparatory/bridging units in biological sciences, numeracy and tertiary study skills
- supplementary tutorial assistance in biological sciences, behavioural sciences and professional studies
- study skills assistance
- provision to do the first year of an award over two years.
The Aboriginal Education Units support all Aboriginal and TSI students on campus by providing a separate study area, common room and cultural and academic support.

The Broadway Scheme
The Broadway Scheme assists current NSW HSC candidates attending NSW State Schools and systemic Catholic schools who have suffered long-term educational disadvantage to gain entry to some of the more competitive courses at the University. Information and application forms are sent to all eligible schools in July of each year.

Long-term educational disadvantage may result from many and varied causes including language problems, disrupted schooling, deprived economic circumstances, geographical isolation, chronic illness, physical handicap or personal trauma.

Applications must be submitted with independent supporting documentation eg. doctor's reports, counsellor's reports, teacher's reports etc. and must be endorsed by the school principal.

Further information can be obtained from the Admissions Office (02) 351-3615.

Support for Disabled Students
The University recognises the need for the provision of educational opportunities for persons with disabilities. Persons with disabilities will be admitted to the Faculty subject to their meeting normal entry requirements. The University will endeavour to make provision for any special services or assistance needed for these students to pursue their studies.

Behavioural and Biomedical Sciences
Professional subjects and subject descriptions for each course are detailed in the Faculty handbook.

Students undertaking any undergraduate course in the Faculty are required to study anatomy, physiology, psychology and sociology as core areas.

The depth at which these areas are studied depends on the requirements of individual courses. In a number of courses other areas of science are studied: Physical Sciences, Microbiology, Biomechanics, Applied Physiology and Research Methods.

Behavioural Sciences
Behavioural Science subjects are normally made up of three strands: psychology, sociology and research methods.

Psychology is the science dealing with the nature of behaviour. Areas of study include: normal and abnormal psychological development, perception, personality development, health and human behaviour, and psycho-social aspects of illness and disability.

Sociology is the science of the development and nature of human society, and the study of social issues and problems. Areas of study include: the family unit, aspects of Australian society, client/practitioner relationships, and issues relating to health, medicine and society.

Research Methods involves the study of how information (data) is collected and measured, determining statistics, and making conclusions on the basis of these investigations. Research methods involves a substantial amount of study using computer resources.

Biomedical Sciences
Anatomy is the study of the structure of the human body and the relationships of body parts to provide a basis for understanding how the body functions. It involves investigation of cells, tissues, organs and systems (including the skeletal, muscular, nervous, endocrine, circulatory, respiratory, digestive, renal and reproductive systems).

Physiology is the study of the mechanisms of body function, the physical, chemical, biochemical and homeostatic processes operating at the cellular level and at the level of the human organism.

Physical Sciences includes the physics and chemistry foundational to an understanding of biological processes and systems.

Microbiology is the study of microorganisms, and in particular their interactions with man. The ways in which diseases may be transmitted, and their prevention are emphasized.

Biomechanics provides the basic scientific concepts of kinematics and dynamics plus, skills in electromyography and instrumentation, required for the analysis of human movement. The active and passive mechanical behaviours of body tissues are studied as well as the applications of biomechanics to therapeutics.

Applied Physiology is concerned with the exercise response in terms of control, regulation, and adaptation of body systems. Particular attention is given to cardiovascular and respiratory control, metabolic regulation, thermoregulation and adaptation to static and dynamic exercise in both able bodied and physically impaired populations.

Knowledge Expected of Commencing Students
In pursuing any biological science or applied science course at University level, a basic knowledge of chemical, mathematical or physics concepts is essential to an understanding of theories of structure and function of the human organism.

Rather than define specific mathematics and science subjects as prerequisites, the Faculty has provided the following information to assist applicants to gauge their preparedness to undertake study in the Faculty of Health Sciences. This assumed knowledge does not apply to programmes in Aboriginal Health and Community Development or Rehabilitation Counselling.

Applicants should refer to the course(s) in which they are interested for more specific information on levels of assumed knowledge. Those students who do not meet the required level of assumed knowledge are encouraged to complete the appropriate bridging course.
The following tables state concepts, knowledge, abilities and skills which enable easier assimilation by students commencing study of biomedical sciences. The items listed are not prerequisites for entering biomedical science subjects, and should not be understood as such.

It is not to be understood that a profound understanding of the items is required to be able to succeed at biomedical science subjects. It is clear however, that the greater the understanding of this foundation the more readily you will be able to understand the concepts and skills built upon it.

The tables should provide a useful basis for any remedial tuition for students who feel their science background to be inadequate during the first year of study.

The tables also aim to provide a useful guide to mature age applicants who feel that it would be beneficial to undertake some prior study in preparation for undergraduate study.

Applicants who do not possess a science background are encouraged to undertake private tutoring or a bridging course to bring themselves to at least the level of understanding outlined below.

**Chemistry**  
(relevant for Physiotherapy, Orthoptics, Occupational Therapy, Medical Radiation Technology and Speech Pathology)

- Identify and be familiar with the following concepts and terms: chemical elements and compounds; metals and non-metals; radicals; valency; covalent bond; ionic bond.
- Identify and be familiar with the following concepts and terms: atom (nucleus, electron); molecular structures; ions (cations and anions); the mole; temperature and bond energy.
- Knowledge of the names and chemical symbols of the first twenty elements of ther periodic table, and other common elements.
- Knowledge of the usual valencies of the common elements, ions and polyatomic ions.
- Ability to write word, ionic, and stoichiometric equations for chemical reactions.

**Mathematics**  
(relevant for Medical Radiation Technology and Health Information Management)

- Identify and be familiar with the following concepts and terms: number, numeral, variable, reciprocal, ratio, function, logarithm (exponent or index).
- Knowledge of laws of indices, and the associated behaviour of logarithms.
- Ability to perform the following algebraic operations: - multiplying through brackets - collecting like terms - changing the subject of simple formulae.
- Ability to solve linear simultaneous equations in two variables, such as:
  
  \[ x + 2y = 5 \]
  \[ 2x - 3y = 4 \]
  
- Ability use scientific notation for large and small numbers, and to multiply, divide, add and subtract numbers written in this notation.
- Knowledge of the trigonometric ratios, sine, cosine and tangent, and the ability to determine their values for angles.
- Ability to draw graphs of the following kinds of relations:
  
  \[ y = mx + b \]
  \[ y = ax^2 + bx + c \]
  \[ y = 1/x^m \]
- Ability to carry out quick and accurate computations using a digital calculator.
- Ability to draw a graph of the relationship of a dependent variable to an independent variable and to be able to interpret such graphs.
- Ability to differentiate and integrate functions including polynomials, exponentials and trigonometric functions.

**Physics**  
(relevant for Medical Radiation Technology, Physiotherapy and Orthoptics)

- Identify and be familiar with the following concepts and terms: motion, scalars and vectors.
- Knowledge of wave motion, light, wave phenomena.
- Identify and be familiar with the following concepts and terms: heat, temperature, calorimetry, heat transfer and expansion.
- Knowledge of the terms, density, force and pressure.
- Identify and be familiar with levers and pulleys.
- Identify and be familiar with the following concepts and terms: electrostatics, electric and potential fields, capacitance and Ohm's law.
- Knowledge of radioactivity and ionising radiation.

**Bridging Courses**
These courses are recommended to students who feel that they have not attained the level of assumed knowledge detailed above. The bridging courses are held in February each year, approximately two weeks prior to commencement of semester one. Information about the courses is sent out with offers of acceptance into undergraduate programs. The prospective student is advised to complete the appropriate course if in any doubt as to his/her capacity in that area.

**Honours Programs**
The degree of Bachelor of Applied Science may be awarded in the grade of Honours in the degree areas of:

- Health Information Management,
- Medical Radiation Technology,
- Occupational Therapy,
- Orthoptics,
- Physiotherapy, or
- Speech Pathology
The degree of Bachelor of Health Science may be awarded in the grade of Honours in the degree area of Rehabilitation Counselling or Aboriginal Health and Community Development.

Information provided here on these Honours Programmes is of a general nature. More detailed information is given in each School's entry in this Handbook.

Admission and Selection
Entry into an Honours Programme is generally at the beginning of the Third Year of the course and eligibility for admission is based on performance during Years 1 and 2 of the student's course. Selection of students into an Honours Programme is competitive and is made from students meeting admission criteria. Students to enter the Honours programme will be selected on the basis of their academic record and research interests. Availability of places, appropriate supervisors, and resources and facilities to support the student's proposed research may affect selection. After results are released at the end of second year, students are notified by Student Services Division (Cumberland) if they have met the criteria for admission. Upon receipt of this notification, students wishing to be admitted to the Honours Programme indicate to the Head of School in writing in the designated manner their intention to seek admission.

Progression
Students in an Honours Programme continue to enrol in most, if not all, of the subjects in the Pass Programme and are generally required to maintain a credit average. Students also undertake additional subjects and research-related activities, and there may be time limits for completion of the Honours Programmes. Completion of a thesis, or in some cases a treatise, is required. Details of specific requirements within the Honours Programmes are given under each School's entry in this Handbook. Students may transfer from the Honours Programme to continue in the Pass course assuming they meet criteria for Pass course progression. Any student in the Honours Programme may elect to return to the Pass course at any time.

Assessment of the Thesis and Award of Honours
There are three classes of Honours: Class I, Class II and Class III. Within Class II there are two Divisions: Division 1 and Division 2. If a candidate qualifies for the award of Honours Class I and the Faculty is of the opinion that the candidate's work is of outstanding merit, that candidate shall receive a bronze medal.

The Honours thesis is examined by at least two examiners. Each examiner awards the thesis an integer between 0 to 50, and the sum of the examiners' marks serves as basis as to whether the thesis is to be rejected or accepted and, if accepted, the level of Honours to be awarded.

Interested individuals should consult the relevant School's entry in this Handbook for specific information related to these Honours Programmes.

Awards and Prizes
The University acknowledges with gratitude gifts from various sources which have made possible the following prizes:

The Alcusal Prize for Research
Donated annually by Alcusal Inc. Pty Ltd for the best undergraduate research project submitted within the School of Physiotherapy by a student completing an individual honour programme research project.

The Australian Physiotherapy Association Prize
Awarded to the most proficient graduand of the Bachelor of Applied Science (Physiotherapy) course. Additionally, the Australian Physiotherapy Association offers a prize to the graduand from the Bachelor of Applied Science (Physiotherapy) course who achieves the highest standard in clinical practice. The prize is named after a person nominated by the Association each year.

The Ciba-Geigy Prize
Awarded for the attainment of the highest aggregate mark in the subject Life Style and Life Roles in the Bachelor of Applied Science (Occupational Therapy) course.

The Diversional Therapy Association of Australia Prize
Awarded for the attainment of the highest aggregate marks in the subjects Diversional Therapy Facilitation Skills I and EC in the Diploma of Applied Science (Diversional Therapy) course.

The Hilda Roberts Memorial Prize
Donated by the NSW Medical Record Association. The prize is awarded to the most proficient student on completion of the final year of the Bachelor of Applied Science (Health Information Management) course.

The Jillian Salter Memorial Award
Donated by the Zonta Club of Orange. Awarded to the best non-metropolitan student who has gained the highest aggregate score across all second year subjects in the diagnostic radiography course, provided the student has achieved a satisfactory standard in all subjects assessed and provided the student has passed every subject at the first attempt.

The J.Val Simpson Memorial Prize for Manual Therapy
Donated by the Manual Therapy Study Group of NSW. This prize is awarded to the student exhibiting the highest proficiency in manual therapy in the Bachelor of Applied Science (Physiotherapy) course.
The Patricia Lance / John Pockley Prize
Donated by the Orthoptic Board of Australia, NSW Branch.
Awarded for general proficiency demonstrated throughout the Bachelor of Applied Science (Orthoptics) course.

The Met-a-Lite Prize for Components of Occupational Performance
Donated by the Met-a-Lite Manufacturing Company Pty., Ltd. The prize is awarded for the attainment of the highest aggregate marks in Components of Occupational Performance I, II and III in the first, second and third years of the Bachelor of Applied Science (Occupational Therapy) course.

The Murray F. Allan Memorial Award
Donated by the Cumberland College of Health Sciences Students' Union. Awarded to the student exhibiting the most outstanding services to students. Open to students of all Schools and Departments in their final year of study.

The NSW Branch of the Australian Association of Speech and Hearing Prize
Awarded for general proficiency in the final year of the Bachelor of Applied Science (Speech Pathology) course.

The Private Speech Pathologists' Association of New South Wales Prize
Awarded for clinical proficiency during the final two years of the Bachelor of Applied Science (Speech Pathology) course.

The Rosemary E. Wilson Memorial Prize for Caring and Giving
Donated by the Obstetric Physiotherapy Group of New South Wales. The prize is awarded to the student in the Bachelor of Applied Science (Physiotherapy) course who is judged as having best shown an awareness of patient's total needs and real empathy with the understanding of patients' physical, psychological and emotional needs.

Financial Assistance

Austudy
Austudy is a scheme of financial assistance for full-time students. Eligibility is based on a number of income, age and academic requirements. The level of assistance for most students is determined by applying an income test for the parental income. Students may be assessed without regard to parental income if they qualify for the independent rate of allowance.

Continuing students should submit their applications as soon as their results are available. New students should lodge their applications as soon as possible after enrolment or by 31st March to receive their full year's entitlement. Austudy information and application forms may be obtained from:
Commonwealth Department of Employment, Education & Training
Austudy (Tertiary) Section
112 Main Street, 1st Floor
Blacktown, NSW 2148
P.O.Box 1042
Blacktown, NSW 2148
Telephone: (02) 672 5555
Toll-free (008) 463 965

Abstudy
Abstudy provides assistance for Aboriginal and Torres Strait Islander students in a wide range of full- and part-time courses. Abstudy benefits for full-time students include living allowance, dependent spouse allowance, incidental allowance and payment of tutorial and fares costs. Abstudy enquiries should be directed to:
Commonwealth Department of Employment, Education & Training
Abstudy
112 Main Street, 1st Floor
Blacktown, NSW 2148
P.O.Box 1042
Blacktown, NSW 2148
Telephone: (02) 672 5503
Toll-free (008) 463 965

Loans
A Short Term Loan Fund has been established from funds provided by the Australian Government under the Special Assistance for Students Programme, and by the Students' Union.

Loans are available to Australian citizens and permanent residents (Non-award students are ineligible to apply) to help with essential living expenses (housing bonds, rent, household bills, emergencies) and study expenses (text books and equipment, clinical placements and thesis production). Interest free enrolment loans to cover compulsory subscriptions payable on enrolment are available for full-time or part-time students. These loans are repayable by 30 April.

Loans are not approved for payment of HECS, purchase of cars, holidays, personal computers or financial penalties eg. traffic fines.

Interest free loans of up to $1000 are available to overseas students for living expenses.
Students seeking assistance from the fund should obtain an application form from the Student Enquiries Counter and submit it to the Student Services Division (Cumberland). The maximum amount of the loan is normally $2000.00 with an interest free period of twelve (12) months.

The Graduates Association of the Faculty of Health Sciences, University of Sydney offers annually a grant of $1500 to provide financial assistance to a new or continuing student in any course of postgraduate study at Cumberland College. The grant is made over one year for full-time students and over two years for part-time students. Applicants must be members of the Graduates Association and applications reach the Graduate Office by October 31. For further information contact the Graduate Office on 646-6291.

Explanation of Subject Numbering System
Subject numbers are allocated by the Director, Student Services (Cumberland).

A subject number is used to identify each subject in which a student is required to be enrolled and for which a result is to be recorded.

The subject number is of five digits. The first two digits identify the School or Department responsible for the subject. The third digit normally indicates the year of the course in which the subject is offered. The final two characters are sequentially allocated as required. Subjects conducted over two calendar years are allocated a different subject number for each year.

The identifying numbers of the Faculty's Schools and Departments are:

08 School of Community Health
09 School of Health Information Management
10 Department of Behavioural Sciences
11 Department of Biological Sciences
12 School of Communication Disorders
14 School of Orthoptics
15 School of Occupational Therapy
16 School of Physiotherapy
18 School of Medical Radiation Technology
20 Singapore Institute of Management
### SUMMARY OF UNDERGRADUATE DIPLOMAS AND DEGREES

#### Bachelor of Applied Science (BAppSc)

<table>
<thead>
<tr>
<th>Program</th>
<th>Duration</th>
<th>Full-time</th>
<th>Course Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diversional Therapy</td>
<td>3 years</td>
<td>F/T</td>
<td>1531</td>
</tr>
<tr>
<td>Health Information Management¹</td>
<td>3 years</td>
<td>F/T</td>
<td>0902</td>
</tr>
<tr>
<td>Medical Radiation Technology¹</td>
<td>3 years</td>
<td>F/T</td>
<td>1808</td>
</tr>
<tr>
<td>Radiation Therapy</td>
<td></td>
<td></td>
<td>1809</td>
</tr>
<tr>
<td>Medical Radiation Technology</td>
<td>1 year</td>
<td>P/T</td>
<td>1810</td>
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</table>

#### Bachelor of Health Science (BHlthSc)

<table>
<thead>
<tr>
<th>Program</th>
<th>Duration</th>
<th>Full-time</th>
<th>Course Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aboriginal Health and Community Development¹</td>
<td>4 years</td>
<td>(Block attendance)</td>
<td>0853</td>
</tr>
<tr>
<td>Medical Radiation Technology³</td>
<td>2 years</td>
<td>-</td>
<td>2004</td>
</tr>
<tr>
<td>Nursing</td>
<td>2 years</td>
<td>P/T</td>
<td>2001</td>
</tr>
<tr>
<td>Occupational Therapy³</td>
<td>2 years</td>
<td>-</td>
<td>2002</td>
</tr>
<tr>
<td>Physiotherapy</td>
<td>2 years</td>
<td>-</td>
<td>2003</td>
</tr>
<tr>
<td>Rehabilitation Counselling¹</td>
<td>3 years</td>
<td>F/T</td>
<td>0819</td>
</tr>
<tr>
<td></td>
<td>6 years</td>
<td>P/T</td>
<td>0820</td>
</tr>
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</table>

#### Diploma of Applied Science (DipAppSc)

<table>
<thead>
<tr>
<th>Program</th>
<th>Duration</th>
<th>Full-time</th>
<th>Course Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diversional Therapy²</td>
<td>2 years</td>
<td>F/T</td>
<td>1508</td>
</tr>
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#### Diploma of Health Science (DipHlthSc)

<table>
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<tr>
<th>Program</th>
<th>Duration</th>
<th>Full-time</th>
<th>Course Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aboriginal Health and Community Development</td>
<td>2 years</td>
<td>P/T</td>
<td>0808</td>
</tr>
</tbody>
</table>

### Notes

1. Honours Programme Available. Total Course Length 4 Years Full-time.
3. Limited to Singapore registered nurses.
Doctor of Philosophy
The degree of Doctor of Philosophy is a research degree awarded for a thesis considered to be a substantially original contribution to the subject concerned. Some coursework may be required (mainly in the form of seminars) but in no case is it a major component.

Applicants should normally hold a Master's degree or a Bachelor's degree with first or second class honours of the University of Sydney, or an equivalent qualification from another university or institution.

The degree may be taken on either a full-time or part-time basis.

Probationary acceptance
1. A candidate may be accepted by a faculty on a probationary basis for a period not exceeding one year and upon completion of this probationary period, the faculty shall review the candidate's work and shall either confirm the candidate's status or terminate the candidature.
2. In the case of a candidate accepted on a probationary period under above subsection, the candidature shall be deemed to have commenced from the date of such acceptance.

Faculty of candidature
Except with the special permission of the faculty in which the candidate wishes to take the degree, a candidate may proceed to the degree only in the faculty in which the candidate obtained the initial qualification for admission.

Control of candidature
1. Each candidate shall pursue his or her course of advanced study and research wholly under the control of the University.
2. Where a candidate is employed by an institution other than the University, the faculty may require a statement by that employer acknowledging that the candidature will be under the control of the University.

Other studies during the candidature
A candidate may be required by the head of school/department or the supervisor to attend lectures, seminar courses or practical work courses subject to the approval of any other head of school/department concerned.

Earliest date for submission
1. i) Except as provided in subsection ii), a candidate may not submit a thesis for examination earlier than the end of the sixth semester of candidature,
ii) A faculty may permit a candidate holding any of the following qualifications of the University of Sydney or from such other institution as the faculty may approve, to submit a thesis for examination not earlier than the end of the fourth semester of candidature -
   a) a degree of Master completed primarily by research;
2. Not withstanding the provisions of section 1 a Faculty may, on the recommendation of the head of school/department and supervisor concerned, permit a candidate to submit a thesis for examination up to one semester earlier than prescribed if, in the opinion of the faculty, evidence has been produced that the candidate has made exceptional progress in his or her candidature.

Latest date for submission
1. Except as provided in subsections (2) to (4) below, a candidate shall submit the thesis for examination not later than the end of the tenth semester of candidature.
2. A candidate who is a full-time member of the academic staff of the University shall submit the thesis for examination not later than the end of the fourteenth semester of candidature.
3. A candidate whose candidature has been part-time throughout shall submit the thesis for examination not later than the end of the fourteenth semester of candidature.
4. A faculty or college board may permit a candidate to submit the thesis for examination after a period of time greater than the maximum periods specified.

The regulations governing the award of Doctor of Philosophy degree are printed in the University Calendar. Prospective candidates should consult with the Head of the School/Department concerned as early as possible to ascertain the availability of facilities and supervision.

Enrolment Procedure - as for Master's degree by research.

Please refer to Summary of Graduate Courses on page 4-7 for course details.
Degree of Master by Research
The following information should be read in conjunction with the Senate Resolutions in the University of Sydney Calendar and the relevant entry in the chapter of the presenting School/Department (refer to Table of Contents).

Applications
1. An application for admission to a Master's degree programme is accepted subject to the availability of facilities and supervision. Courses and arrangements as stated in the Handbook or any other publication, announcement or advice of the Faculty are expression of intent only and are not to be taken as a firm offer or undertaking. The Faculty reserves the right to discontinue or vary such courses, or arrangement of staff allocations at any time without notice.
2. An application shall be made on the prescribed form and shall be lodged with the Director, Student Services (Cumberland).
3. An application shall normally be made by 1 October immediately preceding the year in which the applicant wishes to register, except that, for a programme being conducted for the first time, application for admission shall be made by the specified closing date, as determined by the Director, Student Services (Cumberland), from time to time.
4. An applicant may seek admission to a Master's degree programme as:
   a) a full-time student, or
   b) a part-time student.

Registration
1. The Faculty may either:
   a) Permit an applicant to register as a Master's degree candidate in one of the following Master of Applied Science courses:
      Behavioural Health Science
      Communication Sciences and Disorders
      Exercise and Sport Sciences
      Health Information Management
      Human Biomedical Sciences
      Medical Radiation Technology
      Occupational Therapy
      Orthoptics
      Physiotherapy
   OR
   Master of Health Science courses:
   Community Health
   Education
   Gerontology
   Rehabilitation Counselling
   OR
   Master of Communication Disorders
   b) Permit an applicant to register as a Master's Qualifying student for the purpose of preparing for candidature in any of the above Master's degree courses. On successful completion of the Qualifying Program, a prospective Master's degree student is required to apply for admission to the Master's degree program.
2. An applicant registered as a Degree candidate or as a Qualifying student will not be permitted to undertake concurrently other graduate studies in the University, or elsewhere, except with the approval of the Faculty.
3. The Faculty shall not permit an applicant to register as a Qualifying student or as a Degree candidate unless it has received a certificate from the Head of the School/Department stating that after consultation with the prospective candidate and appropriate members of the School/Department, the Head of the School/Department is of the opinion that the applicant is suited to undertake a programme leading to the Master's degree and that the Head of School/Department has informed each prospective Master's degree candidate of the current research interests of members of the School/Department, as well as indicating the availability of resources that each prospective candidate could be expected to call upon during his/her research.
4. The Faculty may permit an applicant to register as a Master's Degree candidate if the applicant has:
   a) Qualified for admission in terms of the admission requirements (see Section on Admission Requirements under each course),
   OR
   b) Been enrolled as a Master of Applied Science/Health Science Qualifying Student in the Faculty and has subsequently carried out such work, passed such examinations and reached such standards as the Faculty shall prescribe and has not previously been denied enrolment as a Master of Applied Science/Health Sciences degree candidate in the respective courses on two occasions.
   AND
   c) Satisfied the Faculty that the applicant can devote sufficient time to advanced study and research.
   AND
   d) An overseas applicant may be required to submit additional information to satisfy Head of School/Department.

See Chapter 15 for additional administrative information.
Course Requirements

1. General
   a) Qualifying student shall be eligible for consideration for admission to a Master's degree programme on completion of a programme approved by the Faculty at a level of performance prescribed by the Faculty.
   b) A candidate shall be eligible for admission to the degree of Master of Applied Science/Health Science if the candidate:
      i) undertakes the prescribed course of study for the degree, and
      ii) completes the prescribed programme of the research thesis which involves original investigation, or review, and
      iii) submits and has accepted a thesis prepared under the supervision of an Academic Supervisor appointed by the Faculty.

2. Minimum Time
   a) Qualifying student shall not be eligible for consideration for enrolment as a Master's degree candidate until a period of at least one semester has elapsed from initial registration.
   b) A candidate shall not normally be eligible for admission to the degree:
      i) in the case of a full-time student, until a period of at least four semesters has elapsed from time of registration as a Master's degree candidate,
      OR
      ii) in the case of a part-time student, until a period of at least six semesters has elapsed from the time of registration as a Master's degree candidate.

3. Maximum Time
   a) A Qualifying student shall complete the programme within two years.
   b) A candidate shall present for examination:
      i) in the case of a full-time student, not later than six semesters from the date of registration as Master's degree candidate,
      OR
      ii) in the case of a part-time student, not later than ten semesters from the date of registration as Master's degree candidate, unless special permission for an extension of time be granted by the Faculty.

4. Discontinuation of Registration
   Notwithstanding the provision of section 3 above, the Faculty may discontinue the registration of a Master's degree candidate in less than the maximum time allowed, if it is dissatisfied with the candidate's progress.

5. Fieldwork and Supervision
   a) the work other than field work should be carried out in the School/Department and such other areas as appropriate or under such conditions as the Faculty may determine.
   b) the Faculty shall appoint a supervisor from the Academic staff of the Faculty/University.
   c) where the Faculty considers it appropriate, it may appoint Academic associate or co-supervisors. In the case of part-time students, the Faculty may appoint associate or co-supervisors in the student's region or workplace.

6. Progress Reports
   Every Master's degree candidate is required to complete a report on his/her work to the Academic supervisor then through Head of School/Department to the Graduate Studies Committee annually.

7. Research Subject
   Not later than two semesters after registration as a full-time Master's degree candidate or three semesters after registration as a part-time Master's degree candidate, the candidate shall submit the subject of the research thesis for approval by the Faculty. After the subject has been approved it may not be changed except with the permission of the Faculty.

8. Advisory Committee
   Each Master's degree student may be provided with an advisory committee to supplement the supervisory assistance provided by the student's appointed supervisor.
   The Committee would normally be composed of up to three University Academic staff and where the supervisor is not from the respective School/Department, one member of that committee will be from the School/Department.
   The Committee would be under the Chairmanship of the student's appointed supervisor. The Committee may co-opt persons who are not members of the University Academic staff. At no time would the committee consist of more than four persons.
   Following Faculty approval of the student's research thesis subject, the selection of members of the Master's Advisory Committee would be made by the student's supervisor in conjunction with the Head of School/Department. This membership would be submitted to the Graduate Studies Committee for approval on behalf of Faculty.
The Advisory Committee would normally meet at least once each semester to consider the student's progress report. With approval of the student's supervisor, the Committee may meet more frequently. It is expected that each member of the Committee should be available for consultation with the student at times that are mutually convenient. The arrangement will be negotiated by the student's supervisor and approved finally by the Heads of Schools/Departments involved. The student's supervisor may also require the Committee to assist in matters concerned with the final presentation of the student's research thesis.

The membership of the Advisory Committee may be varied by application to the Graduate Studies Committee for approval on behalf of the Faculty, upon satisfaction that the new Advisory Committee is appropriate and arrangements for memberships have been made with the Heads of School and Department involved.

Research Thesis

1. On completion of studies, a Master's degree candidate will submit a thesis which complies with the following requirements:
   a) The greater proportion of the work described must have been completed subsequent to initial registration, and
   b) It must be a distinct contribution to the knowledge of the subject whether by original investigation or by review, and
   c) It must be written in English or in a language approved by the Faculty and reach a satisfactory standard of literary presentation.

2. The thesis shall consist of the candidate's own account of his/her work. In special cases work done conjointly with other persons may be accepted provided the Faculty is satisfied with the candidate's part in the joint work.

3. Every candidate shall submit with the thesis a short abstract of the thesis comprising not more than 300 words.

4. A candidate may not submit as the main content of the thesis any work or material which has been previously submitted for a degree or other similar award, but shall not be precluded from incorporating such in the thesis, provided that he/she indicates generally in the preface and specifically in the notes of the work, material which has been so incorporated.

5. The candidate shall give in writing two months notice of the intention to submit the thesis.

6. Two copies of the thesis shall be prepared by the candidate.
   a) The thesis shall be submitted to the Director, Student Services (Cumberland) by the Head of School/Department with a certificate signed by the supervisor(s) certifying that the candidate's thesis is ready for examination.
   b) If the Head of School/Department declines to accept the thesis, the supervisor may appeal to the Graduate Studies Committee.

7. The following guidelines shall be followed in the preparation of the thesis:
   a) A thesis should be typed on medium-weight A4 on one side of the paper only with double spacing, but in exceptional circumstances and with the approval of the Head of School/Department other forms of presentation may be permitted.
   b) Margins should not be less than 3.5 cm on the left-hand side, 1.5 cm on the right-hand side and 2 cm at the top and bottom to allow for binding and trimming.
   c) A thesis should incorporate in the following order:
      i) a title page giving the title of the thesis in full, the names and degrees of the candidate, the name of the organisation, institute or laboratory in which the research was carried out (if applicable), the name of the School/Department of the tertiary institution associated with the work and the date when submitted for the degree;
      ii) a table of contents;
      iii) an abstract of approximately 300 words;
      iv) a certificate signed by the candidate to the effect that the work has not been submitted for a higher degree to any other university or institution. The candidate shall also indicate in the thesis the sources of information and the extent to which the candidate has involved the work of others.
      v) the supervisor's certificate, which is required to fulfil requirement 7 a, shall be attached to the first page of the thesis.
   d) Sheets shall be numbered consecutively.
   e) Diagrams and figures:
      The following are general suggestions for normal practice but they may be varied in special cases with the approval of the Head of School/Department:
      i) diagrams and figures, etc., should preferably be drawn or photographed on medium weight A4 (rather than being affixed to A4 paper) and bound in the appropriate place in the text;
      ii) all figures should form a right-hand page with the legend at either the bottom or, if necessary, on the page facing the figures;
      iii) tables should be inserted in the appropriate place in the text, except that lengthy or bulky tables should appear as an appendix;
      iv) diagrams, maps, tables, etc., exceeding A4 size, should be folded so as to read as a right-hand page when open.
8. Two copies of the thesis shall be distributed after examination as follows:
1st copy - the School/Department
2nd copy - Library (this copy of the thesis must be on acid-free paper).
a) The copy of the thesis deposited with the Library will be available for consultation, loan, or copying at the discretion of the Senior Librarian, unless the Faculty on the application of the candidate determines that it shall not be available until after the expiry of a period, which period shall not normally exceed two years.
b) The Senior Librarian shall require each user and recipient of a copy of a thesis to undertake in writing to respect the author’s rights under the law relating to copyright.
c) A candidate for a higher degree may, when lodging a thesis, state that the thesis contains restricted or confidential information which the candidate does not desire to be disclosed freely and which may be released to other persons only on the authorisation of the Director, Student Services (Cumberland), after consultation with the Head of School/Department, but otherwise by lodging a thesis, a candidate consents to its release under Rule 8 (a).

d) Where the thesis contains materials which the candidate considers should have restricted distribution, the supervisor, the Head of School/Department and the examiners shall be informed which parts are classified. If further precautions are required, for example, more secure transmission than registered post, costs are to be borne by the candidate.
e) Where a candidate states that a thesis contains confidential information which the candidate does not desire to be disclosed freely, the candidate may to the extent that is possible, place the information in an Appendix to the thesis.
f) The Senior Librarian shall not disclose to any persons the Appendix to a thesis where the candidate states that the Appendix contains restricted or confidential information, unless the Director, Student Services (Cumberland), after consultation with the Head of School/Department, has authorised such disclosure.
g) The candidate may submit as supporting documents any work he/she has published, only if it bears on the subject of the thesis.

3. The candidate may be required to attend the College or such other place as the Faculty shall determine for an oral examination of his/her thesis.
4. The report of examiners shall be forwarded to the Head of School/Department who shall recommend that Graduate Studies Committee which shall:
a) Recommend to Faculty that the student be admitted to the degree (with or without the completion of emendations, minor alterations or corrections of typographical or spelling errors to the satisfaction of the Head of School/Department), or
b) Permit the student to resubmit his/her thesis within one/two semesters for re-examination, or
c) Cancel the student’s registration as a Master’s degree candidate.

Degree of Master by Coursework
Refer to the relevant entry in the chapter of the presenting School/Department (see Table of Contents).

Award of Graduate Diploma
Refer to the relevant entry in the chapter of the presenting School/Department (see Table of Contents).

Award of Graduate Certificate
Refer to the relevant entry in the chapter of the presenting School/Department (see Table of Contents).

Awards, Prizes and Scholarships

Postgraduate Awards
A limited number of competitive Australian Postgraduate Awards are made available to assist students undertaking full-time PhD and Master’s degree courses by coursework or by research at Australian higher education institutions.
Applicants are expected to have an undergraduate record at honours level or to have outstanding results in a pass degree, or in preliminary studies or in the first year of a Master’s degree.
The Awards are available to Australian citizens and permanent residents. Selection is based primarily on academic merit and relevant experience, and is highly competitive.
The closing date for applications is 15 October of each year. Application forms are available from the Student Services Division (Cumberland). For additional information contact:
The Research and Scholarships Office
3rd Floor, Holme Building
The University of Sydney NSW 2006
Telephone: (02) 351-3250 Fax: (02) 351-3256
The Butterworth-Heinemann Treatise Prize
Donated by Butterworth-Heinemann Publishers. Awarded to the postgraduate physiotherapy student submitting the best coursework treatise.

The Butterworth-Heinemann Thesis Prize
Donated by Butterworth-Heinemann Publishers. Awarded to the postgraduate physiotherapy student submitting the best Master's or Doctoral thesis.

The Private Speech Pathologists’ Association of New South Wales Master's Thesis Prize
Awarded for a Master's Thesis which has been successfully examined and is considered of outstanding merit.

Scholarships
For other Scholarships in the University of Sydney, see the Calendar, Volume n.

Part-time Supervisory positions for Master's Students
Qualified Speech Pathologists are regularly employed by the School of Communication Disorders on a part-time basis to provide supervision to the School's undergraduate students in clinical practice.

Master's students who are qualified Speech Pathologists may be offered employment in some of these part-time supervisory positions. Preference will be given to full-time Master's students but part-time students are not precluded from these opportunities. For further information, contact staff in the School of Communication Disorders.

Research Assistantship
From time to time, financial assistance in the form of research assistantship is made available in which students work with staff members on funded research projects. Students are encouraged to seek advice and information on a regular basis from School/Department staff.

Subject Numbering System
Please refer to Chapter 3.
SUMMARY OF GRADUATE DEGREES, DIPLOMAS AND CERTIFICATES

Doctor of Philosophy (PhD)

- Behavioural Sciences
  - Research Thesis
    - F/T 1003
    - P/T 1002
- Biological Sciences
  - Research Thesis
    - F/T 1109
    - P/T 1108
- Communication Sciences and Disorders
  - Research Thesis
    - F/T 1211
    - P/T 1210
- Community Health
  - Research Thesis
    - F/T 0850
    - P/T 0841
- Health Information Management
  - Research Thesis
    - P/T 0912
    - 09601
- Medical Radiation Technology
  - Research Thesis
    - F/T 1825
    - P/T 1820
- Occupational Therapy
  - Research Thesis
    - P/T 1521
    - 1524
- Orthoptics
  - Research Thesis
    - P/T 1412
    - 14601
- Physiotherapy
  - Research Thesis
    - F/T 1618
    - P/T 1623
    - 16601

Master of Applied Science (MApSc)

- Behavioural Health Science (by research)
  - min 2 years F/T 1005
  - min 3 years P/T 1006
- Communication Sciences and Disorders (by research)
  - min 2 years F/T 1213
  - min 3 years P/T 1214
- Exercise and Sport Sciences (by research)
  - min 2 years F/T 1114
  - min 3 years P/T 1115
- Health Information Management (by research)
  - min 2 years F/T 0909
  - min 3 years P/T 0910
- Human Biomedical Sciences (by research)
  - min 2 years F/T 1116
  - min 3 years P/T 1117
- Medical Radiation Technology (by research)
  - min 2 years F/T 1827
  - min 3 years P/T 1828
- Occupational Therapy (by research)
  - min 1 year F/T 1518
  - min 2 years P/T 1511
- Occupational Therapy (by coursework)
  - min 3 sem F/T 1514
  - min 3 years P/T 1516
- Orthoptics (by research) (Hons entry)
  - mini year F/T 1407
  - min 2 years P/T 1408
- Physiotherapy (by research)
  - min 2 years F/T 1624
  - min 3 years P/T 1625
- Physiotherapy (by coursework)
  - Cardiopulmonary Physiotherapy
    - min 3 years P/T 1639
  - Manipulative Physiotherapy
    - min 3 sem F/T 1632
    - min 3 years P/T 1633
  - Neurological Physiotherapy
    - min 3 years P/T 1635
  - Occupational Health
    - min 3 years P/T 1627
  - Paediatric Physiotherapy
    - min 3 years P/T 1629
  - Sports Physiotherapy
    - min 3 sem F/T 1630
    - min 3 years P/T 1631
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<td>F/T</td>
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The Department of Behavioural Sciences, established in 1973, has the brief of providing an underpinning in behavioural science to the courses presented by the Schools of the Faculty. The students of the Department are to be found in all the Schools, where they are learning to become health practitioners. In degree courses they usually study behavioural science for three years. The Department has input also into the Faculty's Diplomas, Graduate Diplomas and Masters degrees, and presents a wide range of subjects developed both to cater for a knowledge base that is common to different Schools and to cover aspects that are specially developed for particular Schools. In addition there is opportunity for students to undertake PhD studies within the Department and the Department's own Masters degrees. A number of Masters and PhD students are conducting research with staff who have interest and expertise in either the psychological or sociological aspects of health and illness.

Behavioural Science covers psychology and sociology applied to health, and includes statistics and research methods. In some circles the work of this area is called behavioural medicine, meaning the psychological and sociocultural applications made to mental and physical health and illness, with special attention to prevention, treatment, and rehabilitation. Since 1980 the Department has run ten national conferences on behavioural medicine, to provide a forum for latest research and thinking in this field, and in 1996 will run an international conference on stress management.
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<td>Medical Radiation Technology</td>
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10472 Motor Performance and Learning

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10519 Biofeedback

10520 Cognitive Function
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10521 Counselling Skills

10522 Critical Thinking

10523 Cultural Approaches to Disease and
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10524 Health Policy and Social Theory

10525 HIV/AIDS: Health and Social Services

10526 Introduction to Medical Anthropology

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10528 Post Trauma Stress

10529 Psychoanalysis, Health Gender
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10530 Qualitative Research Analysis

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10534 Social Theory and Special Groups

10535 Sociology of Gender Relations

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10537 Stress and Disability

10538 Stress and Illness: Management Issues

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Year 2 (and subsequent years)

10516 Research Thesis

- **Part-time Mode**

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Year 2

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10516 Research Thesis
Notes

Research Elective: Select one of the following in consultation with supervisor:
10503  Advanced Research Methods
10551  Developing a Research Project
10552  Group and Single Case Experimental Research in Clinical Settings
10504  Quantitative Research Methods
10505  Qualitative Research Methods
10514  Survey Research Methods
08501  Epidemiological Research
08502  Evaluation Research
08503  History and Philosophy of Scientific Methodology
11501  Biological Measurement and Analysis

Elective Studies: Full-time students elect to study a total of two electives in the first year in consultation with supervisor:
10517  Abnormal Psychology & Mental Health
10518  Behaviour Modification & Cognitive Behavioural Therapy
10519  Biofeedback
10520  Cognitive Function in Neurological Disorders
10521  Counselling Skills
10522  Critical Thinking
10523  Cultural Approaches to Disease and Healing & Ethnographic Analysis
10524  Health Policy and Social Theory
10525  HIV/AIDS: Health and Social Services
10526  Introduction to Medical Anthropology
10527  Occupational Health & Stress
10528  Post Trauma Stress
10529  Psychoanalysis, Health, Gender and the Family
10530  Qualitative Research Analysis
10531  Research Methods for Medical Anthropologists
10532  Social Change and Health Services
10533  Social Skills of the Intellectually Disabled
10534  Social Theory and Special groups
10535  Sociology of Gender Relations
10536  Stress and Coping: Social Context and Individual Differences
10537  Stress and Disability
10538  Stress and Illness: Management Issues
10539  Stress: Performance, Psychophysiology and Exceptional Events
10540  Visualisation and Imagery
10553  Computing for Health Practitioners

Part-time students elect to study a total of two electives, one in each year in consultation with supervisor:
Master of Applied Science (Behavioural Health Science) by Research
The Master of Applied Science research program will allow students to gain extensive research knowledge in the disciplines of psychology, sociology, and anthropology and their application to health behaviour, and health issues. The program aims to produce health professionals who can conduct culturally relevant, scientific, and methodologically sound research. It is aimed at those who have some research experience, and who wish to further their studies by independent research. There is a minor coursework component which develops vital research skills including qualitative and quantitative data analysis, and electives chosen by the student in consultation with the supervisor to provide an interdisciplinary focus for the research thesis. Where a student can demonstrate mastery, exemptions from portions of the coursework may be possible on application from the students and with the support of the supervisor.

Admission Requirements
i) Bachelor degree with a major in anthropology, sociology or psychology;
   OR
ii) Bachelor degree in social work;
   OR
iii) Bachelor degree in a health profession e.g., nursing, occupational therapy, medicine,
   OR
iv) Possess such qualifications as are deemed to be equivalent to one of the above,
   OR
v) Submit such other evidence of general and/or professional qualifications as will satisfy the Faculty that the applicant possesses the educational preparation and capacity to pursue graduate studies.

Applicants may be required to complete any additional qualifying subjects prescribed by the Faculty of Health Sciences.

Course Outline
The Course Outline for the Master of Applied Science (Behavioural Health Science) by research is presented in Table 5-1, on page 5-6.

Subject Descriptions
A: Research Electives

10503 Advanced Research Methods
In this subject students will extend and consolidate the research methods and statistical skills acquired at the undergraduate level. This subject provides the underpinning for additional subjects related to research to be taken at the postgraduate level.

11501 Biological Measurement and Analysis
This subject is a study in measurement, recording and analysis of biological signals. Concepts in the nature of biological signals, their transduction, storage and display, are presented and worked on within the student’s own research application.

08501 Epidemiological Research
In this subject students will be exposed to aspects of conducting epidemiological research, an area which focuses on the study of the distribution of disease, the search for the determinants of the observed distribution and a subsequent evaluation of a causal hypothesis.

08502 Evaluation Research
In this subject, students will examine aspects of conducting evaluation research, an area that focuses on the application of multidisciplinary research methods to health services in a decision-making context.

08503 History and Philosophy of Scientific Methodology
This seminar is designed to provide students with a critical perspective on science as a special form of knowledge. It introduces students to the major philosophies of the scientific enterprise taking into account the social versus natural science controversy.

10504 Quantitative Research Methods
This subject examines a variety of multivariate designs and statistical procedures, including regression analyses, discriminant function analyses and analysis of variance and covariance.

10505 Qualitative Research Methods
This subject introduces students to the major philosophical and theoretical foundations underlying qualitative research. It examines the relationship between research questions and appropriate study designs, as well as the issues of sampling and ethical considerations. Students will develop skill in the use of various interviewing and observational techniques, content analysis and socio-historical research methods. Issues of sampling, the relationship between theory and method, validity and reliability will be explored. Students will gain experience in the analysis of qualitative data and consider issues related to conceptualization, social context, proposition testing and theory development. The use of computer programs for the analysis of qualitative data will be encouraged.
10514 Survey Research Methods
This subject examines survey research design principles including conceptualization, sampling, questionnaire construction and pilot testing of data collection instruments. Techniques for the coding, keypunching and verification of survey data will be covered and experience with computer analysis of survey data will be encouraged.

10551 Developing a Research Project
Pre-requisite Research Methods I and II or equivalent.
This subject is for postgraduate students who have previously studied research methods at the undergraduate level and who are in the initial stages of developing a research project. The subject will provide an overview of the research process and focus on the formulation of a research proposal. It will provide students with an opportunity to review and update their knowledge of research methods, and introduce the research electives which concentrate on a particular methodology or aspect of the research process. Basic research design issues will be considered. Various methods of data collection will be examined together with their suitability for investigating different types of research questions. Students will explore the use of quantitative and qualitative data, longitudinal and cross-sectional designs, and data resulting from experimental interview, observation, single case and survey research methods in addition to content analysis and secondary data analysis. Emphasis will be placed on the issues of validity and reliability of data collection techniques. Basic statistical procedures will be briefly reviewed and applications such as epidemiology and evaluation research will be introduced.

10552 Group and Single Case
Experimental Research in Clinical Settings
This subject concerns experimental designs and analyses suitable for evaluating the effectiveness of clinical interventions. Applications for evaluating data obtained from single cases and groups of clients will be considered.

B: Compulsory Subjects

10515 Thesis Development Seminar
Thesis preparation involves regular meetings with the supervisor concerning the empirical design of the project, ethical considerations, the selection of a suitable methodology, and methods of data collection, collation and statistical analysis. Supervision concerning methods of data collection includes discussion of the appropriate use of observation techniques, survey and scale design, and possible methods of analysis, including qualitative and/or quantitative analyses as appropriate. Students will develop a programme of independent study consisting of a review of the relevant literature, and the development of an empirical design which, subject to favourable evaluation, will constitute the framework for the research thesis.

10516 Research Thesis
A supervisor will be appointed to assist the student in the conduct of the research project if approval is given for the research to be conducted. Supervision will normally involve a one-hour per week meeting with the student supervisor. Facilities and equipment necessary to conduct the thesis will be arranged within the Department, subject to the approval of the research design and equipment necessary to conduct the project. This entails writing a major thesis documenting an original research endeavour in the area of behavioural health science.

C: Contract Based Elective Studies: Areas of Supervisory Expertise

10553 Computing for Health Practitioners
In this subject students will be introduced to computer systems in general with special emphasis on personal computers, including operating systems and concepts for computing. The basic principles for programming will be introduced. Popular applications of relevance to health practitioners and individual clinicians will be covered including spreadsheet for preparation of budgets and reports; word processing for billing and correspondence; and data base managers for maintaining patient or client records. Methods of using data stored by these means for research purposes will be considered. Students will also be introduced to the world of the Internet and encouraged to communicate with colleagues elsewhere in Australia and overseas. The host of resources available on Internet will be covered as will techniques for accessing these. Resources of particular interest for students' professional practice will be emphasized.

10517 Abnormal Psychology and Mental Health
This elective addresses major psychological disorders and the current classificatory and diagnostic systems available. Critiques of nosologies and taxonomies will be provided and alternative individualised systems of assessment useful for research will be discussed. Detailed consideration of the major philosophical questions underpinning current approaches to psychotherapy will be encouraged, including such concepts as person, personality, mental illness, theories of the origin of mental illness and treatment approaches. A critical review of ethical and legal dilemmas in the practices of psychotherapy will be highlighted.
10518 Behaviour Modification and Cognitive Behavioural Therapy
This elective will cover the basic principles of learning theory and their applications to research in health care settings in conjunction with a theoretical introduction to the use of cognitive behavioural therapy. Students will learn to develop programs based on reinforcement principles, such as operant and classical conditioning, extinction, shaping, maintenance and generalisation of the behaviour, stimulus discrimination training and fading, cognitive behaviour modification and assertiveness training, a behavioural model of somatic disorders and behavioural intervention in rehabilitation.

10519 Biofeedback
This elective covers the history of the development of biofeedback research, and considers the range of biofeedback modalities used in therapy to alleviate physical health problems. The main modalities examined are those related to the electromyograph, skin temperature, GSR, and the electroencephalograph. Other areas also considered include blood pressure, heart and respiration rate, blood sugar levels, and incontinence. Recent research, exploring other areas, is critically examined.

10520 Cognitive Function in Neurological Disorders
This elective will consider the principles of cognitive function applied to a range of neurological disorders (e.g. Alzheimer's disease, amnesic disorders, developmental disability). The emphasis will be on understanding cognitive impairments and considering strategies for managing these impairments.

10521 Counselling Skills
This elective will cover the major theories of counselling and their applications to health professional practice. Issues related to the role of counselling in the delivery of health care and the ethical and legal implications of a counselling relationship will be addressed. It also promotes student self-awareness and exploration of their life histories and interpersonal styles, focusing on the implications of these for relating to and doing research with various client groups. Students will be introduced to basic counselling techniques of attending, listening, responding appropriately to clients and questioning techniques. They will learn advanced accurate empathy, confrontation and development of action plans. Further, they will learn techniques of evaluating the success of the counselling process. They will be encouraged to develop their own personal styles in a coherent theoretical framework in relating to clients in a variety of settings, and according to client needs e.g. bereavement counselling, drug and alcohol counselling, crisis intervention, sexual assault, family counselling, and counselling the physically disabled and their relatives. Different models and theories of counselling presented will permit flexible application of these skills to different clients.

10522 Critical Thinking
This elective considers the development of critical thinking skills in the areas of problem solving, decision making, creative thinking, logical thinking, and developing argument. Research is reviewed and critically appraised.

10523 Cultural Approaches to Disease and Healing and Ethnographic Analysis
This elective promotes cross-cultural analysis of the relationship between culture, social structure and beliefs and practices relating to the management of illness and disease. Systematic analysis is encouraged of a wide range of empirical material addressing cultural approaches to disease and health from both pre-industrial and contemporary western settings. Possible research issues are covered addressing anthropology's early concern with indigenous belief systems and current post-modern concern with the representation of these beliefs, the ecological and epidemiological aspects of disease, and a broad spectrum of theories of disease etiology, diagnosis and therapy. A transcultural perspective analyses the philosophical underpinnings of both traditional and contemporary hearing systems, and emphasises similarities and differences from the biomedical perspective, and considers the impact of Western medicine on Third World societies. A political economy approach examines health status and level of health care experienced by different populations, and the potential for research into the social, cultural, economic and political conditions of particular regions to understand their relationship with the world capitalist system.
10524  Health Policy and Social Theory
Contemporary social theorists have noted an increase in the rate of policy change in health services. Students will examine possible research topics concerning the determinants and implications of past and present policy changes in health services.

10525  HIV/AIDS: Health and Social Services
This subject is designed to give students a comprehensive introduction to the medical, health and social aspects of HIV disease. It considers epidemiology, prevention, support services, relevant political and legal issues, occupational health and safety procedures. The subject also investigates how specialist health workers can assist people living with HIV/AIDS.

10526  Introduction to Medical Anthropology
This elective provides an overview of the concepts used in medical anthropology in terms of its current understandings and perspectives as a new sub-discipline. Particular emphasis is given to the analysis that has accompanied the development in medical anthropology of the cultural categories that mediate and sustain western medicine.

10527  Occupational Health and Stress
This elective examines Occupational Health and Safety (OHS) issues within the context of social, economic and political processes and structures. Particular emphases will be placed on OHS as an industrial relations issue, state intervention in OHS policies and the role of the medical and legal professions. Factors which affect occupational performance, experience and satisfaction, health and well-being will be considered, and reference made to studies attempting to explore and modify stress in various organisations, with a view to original research. A range of research topics concerning work performance are encompassed in this elective: work motivation and satisfaction, occupational stress, and work conditions and practices such as shift work, workspace, layout and design, noise, temperature and air pollution.

10528  Post Trauma Stress
This elective traces the history of reactions to traumatic events, including the acceptance of a syndrome known as post traumatic stress syndrome in recent years. Various disorders with similar characteristics are compared and contrasted and the research and clinical literature presented. Current views on the treatment and evaluation of post traumatic disorders are presented and appraised.

10529  Psychoanalysis, Health, Gender and the Family
This elective considers recent research on the contribution of psychological factors to physical illness, and the differential impact of caring for elderly, ill and disabled persons on different family members. It considers individual health in the context of family relations (e.g. anorexia), and views the family and gender relations in an historical social context. Critical appraisal of the main types of group therapy and family therapy, transactional analysis, psychodrama, and milieu therapy will be encouraged.

10530  Qualitative Research Analysis
Pre-requisite: 10505 Qualitative Research Methods.
In this subject students will execute a qualitative research project and write a report of the findings. The subject will focus on conceptualization, social context, proposition testing and theory construction. Use of computer programs for the analysis of data will be discussed.

10531  Research Methods for Medical Anthropologists
This elective provides knowledge of various methods of fieldwork and the consequences and problems of pursuing them. By analysing examples of published research, attention will be drawn to the problems and difficulties in undertaking a research project in the field of medical anthropology. In particular, specific research strategies will be covered which are relevant to potential thesis topics.

10532  Social Change and Health Services
This elective will assist the student to develop an understanding of the processes of social change in health care systems, and will develop an ability to evaluate the efficiency of proposed structural and role changes within the health care system, and the implications of those changes for the quality of health care provided.

10533  Social Skills of the Intellectually Disabled
This elective traces research over the last several decades into social skills instruction designed specifically for the intellectually disabled, but also places it into the wider context of social skills research. Special programs for social skills instruction are critically examined.
10534  Social Theory and Special Groups
This elective gives students a basic understanding of social theory. As an example of a special group which might be studied, it examines women's health in the context of social class and gender divisions in Australian Society. Students will be encouraged to consider as research issues patterns and concerns regarding the status of women's health using socialist, feminist and psychoanalytic perspectives. Research into particular ethnic groups and multicultural issues are also within the scope of this elective.

10535  Sociology of Gender Relations
This elective examines research perspectives concerning gender relations within the structure of industrial capitalism, with particular focus on relations of power, the sexual division of labour, sexuality, the social construction of gender, production and reproduction and family.

10536  Stress and Coping: Social Context and Individual Differences
This elective considers how social context and external factors influence 'stress'. Arguments that the term 'stress' is misleading and that emphasis should be placed on changing external factors or social conditions will be considered. The effects of interpersonal and social relations on health and well-being and factors such as friendship, love and attraction will be considered. Cases of stressors impinging differentially across varying ages, gender, and socioeconomic factors and different religious groups are emphasised. In looking at the nature of coping and its effect on stress, the concept of stress mastery is addressed, models of coping compared and contrasted and their relationship to the construction of stress management programs critically evaluated. Individual differences in personality and their effect on coping will be considered, especially with respect to generating research. The research potential of procedures which focus on the modification of stress-related behaviours, such as Type A Behaviour, exercise and smoking, particularly behavioural 'contracting' will also be considered.

10537  Stress and Disability
This elective examines the incidence of various disabilities. Community perceptions will be examined, including the reasons behind the existence of 'high profile', 'stigma' and 'cultural acceptability' differences across disabilities. Factors associated with living with a disability will be examined, and the relationship of research to individual accounts critically examined.

10538  Stress and Illness: Management Issues
The nature of the relationship of the psychophysiological stress response and the development of illness will be explored and critically evaluated in this elective. A range of disorders will be considered, for example headaches, coronary heart disease and diabetes. Current research literature across a variety of relevant disciplines will be evaluated as a background to original research. An introduction to the theoretical and practical aspects of a range of stress management techniques is provided. Emphasis will be placed on the research utility of those techniques commonly included in stress-management 'packages', such as relaxation, biofeedback, cognitive restructuring and time management.

10539  Stress: Performance, Psychophysiology, and Exceptional Events
This elective considers the psychophysiology of Cannon's "Fight or Flight response" and Selye's "General Adaptation Syndrome". Differences between attention, arousal, anxiety and stress will be considered and then putative differential effects on performance will be considered. Recent work on the differences and similarities of psychophysiological functioning across a variety of physiological indices, and within and across individuals will be considered. The nature of the "freeze" response will also be considered, and the roles of parasympathetic and sympathetic functioning examined. Research interest will be promoted in human functioning under exceptional events and conditions, both positive and negative. The nature of certain careers and personalities which result in exposure to extreme conditions such as danger in work and injury in sport will be considered. The nature of judgment under extreme pressure will also be evaluated across a variety of conditions, using both laboratory studies and examination of performance in real life conditions such as isolation, extremes of temperature and high demand.

10540  Visualisation and Imagery
This elective examines a range of techniques of visualisation and imagery that have been used for purposes of healing and performance enhancement. The research literature is reviewed to pinpoint the effects and the effectiveness of the applications, and explores the development of skill in their use.
### Table 5.2 Master of Behavioural Health Science (By Coursework)

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Elective Studies

10517 Abnormal Psychology & Mental Health
10518 Behaviour Modification & Cognitive Behavioural Therapy
10519 Biofeedback
10520 Cognitive Function in Neurological Disorders
10521 Counselling Skills
10522 Critical Thinking
10523 Cultural Approaches to Disease and Healing & Ethnographic Analysis
10524 Health Policy and Social Theory
10525 HTV/AIDS: Health and Social Services
10526 Introduction to Medical Anthropology
10527 Occupational Health & Stress
10528 Post Trauma Stress
10529 Psychoanalysis, Health, Gender and the Family
10530 Qualitative Research Analysis
10531 Research Methods for Medical Anthropologists
10532 Social Change and Health Services
10533 Social Skills of the Intellectually Disabled
10534 Social Theory and Special groups
10535 Sociology of Gender Relations
10536 Stress and Coping: Social Context and Individual Differences
10537 Stress and Disability
10538 Stress and Illness: Management Issues
10539 Stress: Performance, Psychophiology and Exceptional Events
10540 Visualisation and Imagery
10553 Computing for Health Practitioners
### Table 5.3  Graduate Diploma in Behavioural Health Science

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**Elective Studies**

- 10517 Abnormal Psychology & Mental Health
- 10518 Behaviour Modification & Cognitive Behavioural Therapy
- 10519 Biofeedback
- 10520 Cognitive Function in Neurological Disorders
- 10521 Counselling Skills
- 10522 Critical Thinking
- 10523 Cultural Approaches to Disease and Healing & Ethnographic Analysis
- 10524 Health Policy and Social Theory
- 10525 HIV/AIDS: Health and Social Services
- 10526 Introduction to Medical Anthropology
- 10527 Occupational Health & Stress
- 10528 Post Trauma Stress
- 10529 Psychoanalysis, Health, Gender and the Family
- 10530 Qualitative Research Analysis
- 10531 Research Methods for Medical Anthropologists
- 10532 Social Change and Health Services
- 10533 Social Skills of the Intellectually Disabled
- 10534 Social Theory and Special groups
- 10535 Sociology of Gender Relations
- 10536 Stress and Coping: Social Context and Individual Differences
- 10537 Stress and Disability
- 10538 Stress and Illness: Management Issues
- 10539 Stress: Performance, Psychophysiology and Exceptional Events
- 10540 Visualisation and Imagery
- 10553 Computing for Health Practitioners
Table 5.4  Graduate Certificate in Behavioural Health Science

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Elective Studies

- 10517 Abnormal Psychology & Mental Health
- 10518 Behaviour Modification & Cognitive Behavioural Therapy
- 10519 Biofeedback
- 10520 Cognitive Function in Neurological Disorders
- 10521 Counselling Skills
- 10522 Critical Thinking
- 10523 Cultural Approaches to Disease and Healing & Ethnographic Analysis
- 10524 Health Policy and Social Theory
- 10525 HIV/AIDS: Health and Social Services
- 10526 Introduction to Medical Anthropology
- 10527 Occupational Health & Stress
- 10528 Post Trauma Stress
- 10529 Psychoanalysis, Health, Gender and the Family
- 10530 Qualitative Research Analysis
- 10531 Research Methods for Medical Anthropologists
- 10532 Social Change and Health Services
- 10533 Social Skills of the Intellectually Disabled
- 10534 Social Theory and Special groups
- 10535 Sociology of Gender Relations
- 10536 Stress and Coping: Social Context and Individual Differences
- 10537 Stress and Disability
- 10538 Stress and Illness: Management Issues
- 10539 Stress: Performance, Psychophysiology and Exceptional Events
- 10540 Visualisation and Imagery
- 10553 Computing for Health Practitioners
Master of Behavioural Health Science, Graduate Diploma Behavioural Health Science, Graduate Certificate Behavioural Health Science (by Coursework)
The Master of Behavioural Science, Graduate Diploma of Behavioural Science and Graduate Certificate of Behavioural Science by coursework will allow students to gain considerable contemporary knowledge in the disciplines of psychology, sociology, and anthropology and their application to health behaviour and health issues. The courses aim to produce health professionals who are aware of and can critically evaluate and integrate into their work practice culturally relevant, scientific, and methodologically sound research evidence. It is aimed at those who have some background in the health professions and/or relevant disciplines who wish to further their studies in an interdisciplinary manner. The electives give the student the opportunity to develop discipline-based knowledge and research skills (including qualitative and quantitative data analysis) in the context of teachers who are conversant with the relevance to the behavioural sciences to issues of health care, illness and stress, the importance of counselling skills for health professionals, and the historical and changing role of health professions in the context of our culture, adjacent nations, Europe, and the U.S.A. There are no core subjects specified; electives are chosen by the student. Masters students will choose their electives in consultation with the supervisor of their research treatise. Where a student can demonstrate mastery, exemptions from portions of the coursework may be possible on application from the students and with the support of the supervisor.

Admission Requirements
Master of Behavioural Health Science, (and Graduate Diploma and Graduate Certificate)
i) Bachelor degree with a major in anthropology, sociology or psychology;
   OR
ii) Bachelor degree in social work;
   OR
iii) Bachelor degree in a health profession e.g., nursing, occupational therapy, medicine,
   OR
iv) Possess such qualifications as are deemed to be equivalent to one of the above,
v) Submit such other evidence of general and/or professional qualifications as will satisfy the Faculty that the applicant possesses the educational preparation and capacity to pursue graduate studies.

Applicants may be required to complete any additional qualifying subjects prescribed by the Faculty of Health Sciences.

Course Outlines
The Course Outline for the Master of Behavioural Health Science is presented in Table 5.2, on page 5-14, the Course Outline for the Graduate Diploma of Behavioural Health Science is presented in Table 5.3, on page 5-16 and the Course Outline for the Graduate Certificate of Behavioural Health Science is presented in Table 5.4, on page 5-18.

Credit Transfer
Students who have completed the Graduate Certificate of Behavioural Health Science will receive full credit (60%) towards the Graduate Diploma of Behavioural Health Science. Students who have completed the Graduate Diploma of Behavioural Health Science will receive full credit (67%) toward the Master of Behavioural Health Science. Transfer to a research masters degree must occur via advance standing mechanisms. Consideration of advanced standing follows existing Faculty policy as outlined in the Faculty of Health Sciences Handbook.

Subject Descriptions
Subject descriptions for the research electives and elective studies are the same as those described in this handbook under the Master of Applied Science (Behavioural Health Science) (by Research).
Table 5.5  Master of Child and Adolescent Health (By Coursework)

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Elective Studies
10463 Social Psychology
10570 Survey Design and Analysis
10517 Abnormal Psychology & Mental Health
10518 Behaviour Modification & Cognitive Behavioural Therapy
10519 Biofeedback
10520 Cognitive Function in Neurological Disorders
10521 Counselling Skills
10522 Critical Thinking
10523 Cultural Approaches to Disease and Healing & Ethnographic Analysis
10524 Health Policy and Social Theory
10525 HIV/AIDS: Health and Social Services
10526 Introduction to Medical Anthropology
10527 Occupational Health & Stress
10528 Post Trauma Stress
10529 Psychoanalysis, Health, Gender and the Family
10530 Qualitative Research Analysis
10531 Research Methods for Medical Anthropologists
10532 Social Change and Health Services
10533 Social Skills of the Intellectually Disabled
10534 Social Theory and Special groups
10535 Sociology of Gender Relations
10536 Stress and Coping: Social Context and Individual Differences
10537 Stress and Disability
10538 Stress and Illness: Management Issues
10539 Stress: Performance, Psychophysiology and Exceptional Events
10540 Visualisation and Imagery
10551 Developing a Research Project (42 hours)
10552 Group and Single Case Experimental Research in Clinical Settings
10553 Computing for Health Practitioners
10557 Violence Against Children and Adolescents - in context
10558 Contempory Issues in Childhood and Adolescence
10559 Therapy with Children, Adolescents and their families
10560 Child and Adolescent Assessment: Psychosocial and Legal Issues
10561 Young People and Social Control in Australia
10562 The Sociology of Deviance
10563 Sociology of Community and Family
10564 Psychology of Child Development and Adjustment
10565 Psychology of Adolescent Development and Adjustment
10566 Subcultural and Cross Cultural Issues: The Costs of Marginality
10567 Health and Cultural Pluralism
10568 HIV/AIDS: Health and Social Services
134A4 Family and Early Childhood Nursing
134B1 Family and Early Childhood Nursing
Table 5.6  
Graduate Diploma in Child and Adolescent Health

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<td>Part-time, minimum 1 year or 2 semesters</td>
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Master of Child and Adolescent Health, Graduate Diploma in Child and Adolescent Health, Graduate Certificate of Child and Adolescent Health (by Coursework)

The Master of Child and Adolescent Health, Graduate Diploma in Child and Adolescent Health, and Graduate Certificate in Child and Adolescent Health by coursework will allow students to gain considerable contemporary knowledge in the disciplines of psychology, sociology, and anthropology and their application to child and adolescent health issues. The courses aim to produce health professionals who are aware of and can critically evaluate and integrate into their work practice culturally relevant, scientific, and methodologically sound research evidence. It is aimed at those who have some background in the health professions and/or relevant disciplines who wish to further their studies in an interdisciplinary manner. The electives give the student the opportunity to develop discipline-based knowledge and research skills (including qualitative and quantitative data analysis) in the context of teachers who are conversant with the relevance to the behavioural sciences to age appropriate child and adolescent assessment, skills relevant to working with survivors of sexual and other violence, integrating issues concerning social scientific validity with legal validity in information gathering, and understanding development, achievements, and difficulties in a social and cultural context. There are no core subjects specified; electives are chosen by the student. Masters students will choose their electives in consultation with the supervisor of their research treatise. Where a student can demonstrate mastery, exemptions from portions of the coursework may be possible on application from the students and with the support of the supervisor.

Admission Requirements
Master of Child and Adolescent Health, (and Graduate Diploma and Graduate Certificate)

i) Bachelor degree with a major in anthropology, sociology or psychology;
   OR
ii) Bachelor degree in social work;
   OR
iii) Bachelor degree in a health profession e.g., nursing, occupational therapy, medicine,
   OR
iv) Possess such qualifications as are deemed to be equivalent to one of the above,
   OR
v) Submit such other evidence of general and/or professional qualifications as will satisfy the Faculty that the applicant possesses the educational preparation and capacity to pursue graduate studies.

Applicants may be required to complete any additional qualifying subjects prescribed by the Faculty of Health Sciences.

Course Outlines

The Course Outline for the Master of Child and Adolescent Health is presented in Table 5.5, on page 5-20, the Course Outline for the Graduate Diploma in Child and Adolescent Health is presented in Table 5.2, on page 5-22 and the Course Outline for the Graduate Certificate in Child and Adolescent Health is presented in Table 5.7, on page 5-24.

Credit Transfer

Students who have completed the Graduate Certificate in Child and Adolescent Health will receive full credit (60%) towards the Graduate Diploma in Child and Adolescent Health. Students who have completed the Graduate Diploma in Child and Adolescent Health will receive full credit (67%) toward the Master of Child and Adolescent Health. Transfer to a research masters degree must occur via advance standing mechanisms. Consideration of advanced standing follows existing Faculty policy as outlined in the Faculty of Health Sciences Handbook.

Subject Descriptions

Students are entitled to take any research electives offered in the Master of Applied Science (Behavioural Health Science) (by Research) outlined in this handbook.

A. Existing Electives

10476 Behavioural Science A (42hrs)
10477 Behavioural Science B (28hrs)
10463 Social Psychology
134A4 Family and Early Childhood Nursing (28hrs)
134B1 Family and Early Childhood Nursing (28hrs)
10504 Survey Design and Analysis
10553 Computing for Health Practitioners
10552 Group and Single Case Experimental Research in Clinical Settings
10551 Developing a Research Project
B. New Electives
NB: Unless specified these electives are 28 hour electives.

10557 Violence Against Children and Adolescents - in context
Effecte intervention into violence against children and adolescents requires an awareness and understanding of the nature and extent of this crime, together with a knowledge of the impact of such violence on all involved: victims/survivors, families, perpetrators and professionals working in the area. Course content will include discussion of the nature and extent of abuse (physical, neglect, sexual, external and systems abuse), theoretical approaches and models which attempt to explain such abuse and a critical examination of attitudes and beliefs about victimisation of children and adolescents. The subject will also examine the Criminal Justice Response to child abuse, including police involvement and related legal issues such as reliability and credibility of children's evidence. Characteristics of perpetrators, child pornography, and prostitution will also be discussed, as will child protection programs and the burden of care falling to the professionals working in the area. This subject will adopt an interdisciplinary approach with an applied focus and will involve input from various agencies such as the police, D.P.P. and other community agencies and service providers [DCS].

10558 Contemporary Issues in Childhood and Adolescence
This subject will enable students to study in depth an area of special interest related to child and adolescent health and adjustment, including such topics as; SIDS, homelessness, the effects of divorce on children, adolescent suicide, eating disorders, bullying, delinquency, sexuality and juvenile offenders. The course will be seminar based, where particular topics will be discussed from a theoretical and applied perspective with particular emphasis on possible intervention programs and treatment. Students will be required to submit an individual report (which can take the form of a critical synthesis of the literature or a small piece of original research). Topics and project style will be decided in consultation with the lecturer.

10559 Therapy with Children, Adolescents and their families
Theoretical models addressing concerns specific to children and adolescents will be considered covering a variety of theoretical perspectives; including behavioural, psychoanalytic and systemic. These models will provide a background for developing interviewing techniques. Students will gain practical skills in interviewing the client within the context relevant to the presenting problem; for example the student will learn when to interview and individual and when to interview the entire family. The subject will conclude with a consideration of the role of the therapist during the process and termination of therapy.

10560 Child and Adolescent Assessment: Psychosocial and Legal Issues
This subject covers age-appropriate assessment techniques from a variety of perspectives and introduces multi-modal forms of assessment such as paper and pencil tests and symbolic play-based measures. A background understanding of Piagetian theory will be introduced in so far as it pertains to these age-specific assessment issues. Ways of resolving the tension between achieving psychologically valid and reliable evidence from children and the (often conflicting) requirements of legally valid and reliable testimonies will be canvassed, with special emphasis on children as witnesses and the problem of children's evidence. Care will be taken to ensure that the assessment process does not constitute a further victimisation of child and adolescent sexual and physical abuse victims. Case study methods will be among material used for this subject and skills will be developed in the writing of reports to prepare students for the possible role of expert witness on behalf of the child and/or adolescent.

10561 Young People and Social Control in Australia
This subject examines how the 'space' occupied by young people in Australia has been subject to even greater social control in recent years. Under the banners of 'skill formation' and 'law and order', Government policies have been directed at curbing the autonomous activities of young working class men and women and enforcing particular kinds of conforming behaviour. Any attempts by young people to win for themselves more freedom of movement and action have been met with concerted effort to tighten control.
10562 The Sociology of Deviance
This subject will use the paradigms developed by the theoretical approach to the sociology of deviance to examine adolescent behaviour in relation to substance abuse, homelessness and other non-traditional lifestyles. This subject will incorporate an historical approach to community breakdown, social control, the effects of media imagery and the changing approaches of social control agents such as governments, the legal system, law enforcement officers and medical personnel. An analysis of legislation and of royal commission findings will be made using structural and interactional theories.

10563 Sociology of Community and Family
This subject develops and understanding of urbanisation and of the concept of community in relation to young adults. It examines recent Australian community studies analysing the characteristics of neighbouring and friendship ties. It investigates the nature of networks in terms of size, intensity and homophily, and the support likely to be offered by networks in times of dependency occasioned by chronic ill-health, disability or sudden health crises in youth and adolescence. The interplay between assistance offered by formal health-care and community organisations with informal support is discussed from a sociological perspective. The debate about the predominance of the modified extended family versus the various types of nuclear families is considered and the effects of life-cycle stage and culture are examined. Particular it investigates dependency and support within the family context. The structure and functions of the Australian family in an historical context, together with the significance of changes, are important foci of the subject. Lectures and literature will be used to provide the analytic tools. These will be applied in seminars and applied to data collected in observational exercises and to film material.

10564 Psychology of Child Development and Adjustment
Biological factors, sociocultural expectations, life experiences, personal choices and chance events all contribute to the process of human development. This subject addresses theoretical and applied perspectives related to the study of child development and adjustment. The period of pregnancy (genetic and biological influences) and prenatal development are discussed together with psychosocial factors associated with pregnancy and the birth process. The period of infancy and childhood is examined and topics such as sensory, motor, cognitive and moral development are explored with reference to the effects of variation in attachment, class and culture. The development and function of play and its importance are highlighted together with social and emotional development including; sex role development, friendship patterns and self-esteem and one's self-concept.

10565 Psychology of Adolescent Development and Adjustment
This subject provides an overview and critical evaluation of theoretical approaches which attempt to explain adolescent development and adjustment. Aspects of physical growth and psychological changes will be examined together with factors affecting development and the impact of those changes. Discussion of cognitive and psychosocial development during adolescence will highlight interaction between the adolescent, self and society. Topics will include identity formation, relations with peers and family, sexuality and intimacy, body image and personality; the 'youth culture' role of the media. Adolescent health concerns will also be discussed including alcohol and drug use and abuse, STD's, adolescent suicide.

10566 Subcultural and Cross Cultural Issues: The Costs of Marginality
Much work has been done illuminating the different courses taken in the development of self-concept and self-esteem in minority group children and adolescents. This subject will consider the child and adolescent in cultural context, revealing the relative nature of the concept of 'adjustment' and exploring the particular challenges faced by migrant and refugee children and adolescents as well as those of indigenous minority groups. Possible interventions will be discussed in easing adjustment required by cultural transitions. The different social effects of similar behaviours evidenced by different cultures will be discussed with special emphasis on the criminalisation of self-destructive behaviours in some cultural groups. Avenues of social change and service provision will be explored.

10567 Health and Cultural Pluralism
This subject examines the health values and experiences of young people and their families in a multicultural society. The Australian government and people have embraced the concept of multiculturalism yet health care delivery is rooted in a monocultural paradigm in which cultural difference in treatment and sickness behaviour are of peripheral importance. Sociological analysis will be used to examine demographic issues, cultural values, sickness behaviour, family structures and community attitudes in preventative and remedial health care. Government policies and provisions will also be examined and the way in which these have responded to Australia's changing populations will be analysed.

10568 HIV/AIDS: Health and Social Services
This subject is designed to give students a comprehensive introduction to the medical, health and social aspects of HIV/AIDS. It considers epidemiology, prevention, support services, relevant political and legal issues, occupational health and safety procedures. This subject also investigates how specialist health workers can assist children and adolescents living with AIDS.
The Department of Biomedical Sciences was established in 1973 and from its inception has played an important role in the development of the Faculty's teaching programmes. Biomedical Sciences provides rigorous academic input into these programmes and incorporates subjects from the discipline areas of basic physics and chemistry, basic biology, human anatomy and physiology, pathophysiology, microbiology, applied physiology and biomechanics.

The Department commenced its own postgraduate Diploma in Exercise and Sport Sciences in 1983 and a Masters Degree in Exercise and Sport Sciences in 1986. These postgraduate programs have since been reviewed and in 1993 the Department of Biomedical Sciences will continue to offer a Graduate Diploma in Exercise and Sport Sciences with the opportunity for students to focus on either Exercise Rehabilitation Science and/or Sport Science. A Masters degree programme by coursework in Exercise and Sport Sciences is also offered to students with an appropriate undergraduate degree. These programmes serve the needs of sport scientists, physiotherapists and medical practitioners. A Master's degree programme by research in Exercise and Sport Sciences is offered. In addition there is opportunity to undertake PhD studies within the Department where supervision is available. The Department offers excellent research facilities, highly qualified staff and a highly regarded research productivity.

Information on these programmes can be obtained from the Biomedical Sciences office, telephone 646-6455.

Head of Department
Professor John R. Sutton
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### Table 6.1  Graduate Diploma in Exercise and Sport Sciences

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**Part-time Mode**

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<td>11436</td>
<td>Applied Physiology II</td>
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**Year 2**

| 10461  | Research Methods | 28    | 28    | -   |
| 11427  | Exercise and Rehabilitation I | 28    | 28    | -   |

**Sports Science Strand**

| 10460  | Psychosocial Aspects of Sport | 28    | -     | 28 |
| 11458  | Clinical Exercise Testing and Athlete Assessment | 56    | 56    | -   |
| 11459  | Exercise Prescription and Practice | 56    | -     | 56 |
| 11460  | Sports Nutrition | 28    | -     | 28 |

**Exercise Rehabilitation Science Strand**

| 11441  | Exercise and Rehabilitation II | 28    | -     | 28 |
| 11442  | Functional Anatomy | 56    | -     | 56 |
| 11461  | Clinical Biomechanics | 28    | -     | 28 |

**Notes**

i) Students completing the Graduate Diploma in Exercise and Sport Sciences with a credit grade average, may apply to proceed to the Master of Exercise and Sport Sciences.

ii) The availability of second year subjects will be dependent upon student demand and availability of academic staff and resources.
Graduate Diploma in Exercise and Sport Sciences

This course is designed to provide opportunity for advanced study in exercise and sport sciences with focus on the areas of applied physiology, biomechanics and motor learning. It is anticipated that this study will be an extension of the students' prior training and professional role. The course will be presented with the assumption that the student has a background knowledge of anatomy or biomechanics and physiology or is prepared to acquire it, prior to commencing the course. The two year part-time course may be completed in one year full-time.

Admission Requirements

A Pass Entry Level
To qualify for admission, applicants shall possess an undergraduate degree in medicine, physiotherapy, occupational therapy, nursing, physical education or other related fields. A background in anatomy or biomechanics and physiology is essential.

B Honours Entry Level
Applicants who have completed an approved Bachelors degree at honours level in medicine, physiotherapy, occupational therapy, nursing, physical education or other related fields may also be admitted.

C Special Circumstances
In special circumstances a person may be admitted as a candidate on the submission of an academic transcript and professional attainment that is approved by the Faculty.

D Qualifying Statement
Notwithstanding the above requirements for admission, the Faculty may require the applicants to demonstrate, by examination or appropriate work that they are suitable candidates, before being admitted to the programme.

Course Outline

The Course Outline for the Graduate Diploma in Exercise and Sport Sciences is presented in Table 6.1.

Subject Descriptions

10459 Motor Learning
Semester 2-28 hours
This unit develops the model of information processing in the human sensory-motor system as the basis of the acquisition and execution of motor behaviour. Topics covered include: the stages of skill acquisition; automatic versus conscious motor control; expert-novice skill differences in pattern recognition and movement production, simultaneous multi-task performance; attention, effort and resources; planning and controlling movements; hemispheric specialisation; memory for movements; imagery and mental rehearsal; practice and automatisation; stress, arousal and performance; disorders of movement; ecological and motor programme approaches to motor learning.

10460 Psychosocial Aspects of Sport
Semester 2-28 hours
The first part of this unit considers psychological factors in sports performance. Topics covered include: managing motivation, anxiety and aggression; arousal-performance relationships; psychosocial characteristics of peak performance; personality and sport performance; relaxation and energising techniques; cognitive techniques; attention control-training; goal-setting; leadership; team cohesion; athlete staleness and burnout; stress, injury and psychological rehabilitation.

The second part of the unit is concerned with the historical development of leisure and its relationship to work; sport as a dominant aspect of Australian culture; sources of tensions and conflicts in sport and leisure which are related to power, race, class, gender, age, ideology in sporting and leisure contexts.

10461 Research Methods
Semester 1-28 hours
Familiarity is assumed with basic descriptive and inferential methods. These basic methods are expanded upon with the major focus being on problem solving with a view to extracting meaning from data. The emphasis is on practical application of methodologies with extensive use made of modern statistical software.

The nexus between design and analysis is stressed using a linear model approach to demonstrate the partitioning of variance and the behaviour of random error. Single and multiple variable models are discussed with particular reference to clinical trials. Both categorical and measured data models are considered. The specific research designs and strategies used to illustrate concepts will be tailored to the needs and expectations of the students.

Department of Biomedical Sciences
11426 Biomechanics I
Semester 1-56 hours
This subject will provide basic biomechanical concepts and skills required for the analysis of human movement. Principles of kinematics, kinetics and electromyography will be studied with reference to selected motor activities. Laboratory sessions will be used to provide illustrations of the above principles and to give students experience with biomechanical laboratory techniques.

11427 Exercise and Rehabilitation I
Semester 1-28 hours
This subject will provide a foundation upon which students will be able to critically evaluate methods of management of the person who has sustained injury during physical activity. The emphasis will be on the response of body tissues to injury, immobilisation and rehabilitation, and the influence of these factors upon tissue repair and restoration of function.

11429 Applied Physiology I
Semester 1-56 hours
This subject will provide the student with a developing infrastructure for Applied Physiology II. Initially, this subject will involve a systems approach with emphasis on applied physiological situations. Only when the basic physiological systems have been reviewed and expanded, will the more integrative aspects of the exercise response be attempted. While the subject content is broad, it nevertheless assumes a sound physiology background. Particular attention will be given to the cardiovascular, respiratory, and metabolic systems.

11435 Biomechanics II
Semester 2-42 hours
Pre-requisite: Biomechanics I (11426)
This subject extends the foundation concepts and skills developed in Biomechanics I. Specific topics such as electromyography in dynamic muscle movements, fluid mechanics, projectile motion, mechanical energy distribution, and mechanics of implementation will be studied in the context of specific motor activities.

11436 Applied Physiology II
Semester 2-42 hours
Pre-requisite: Applied Physiology I (11429)
This subject will build upon the principles and information provided in Applied Physiology I, and will focus upon the regulation of the exercise response. While the changes that occur during exercise are important, this subject will aim primarily at providing the student with the necessary understanding of the mechanisms behind these changes. Particular attention will be given to cardiovascular control, adaptation to dynamic and static exercise, metabolic regulation, respiratory control and thermoregulation.

It is expected that while the content of this subject will remain fixed, the level and emphasis of each section will vary according to current staff background and research interest.

11441 Exercise and Rehabilitation II
Semester 2-28 hours
Pre or Co-requisites: Applied Physiology II (11436), Biomechanics II (11435), Exercise and Rehabilitation I (11427)
Students in this subject will be exposed to current trends in selected areas of rehabilitation. This approach will include an examination of the physiological and psychological basis of rehabilitation including appropriate clinical management.

The areas of rehabilitation selected for presentation will depend on the available expertise of the staff, and could include rehabilitation of the deconditioned person, coronary and respiratory rehabilitation, as well as rehabilitation of the sports person.

11442 Functional Anatomy
Semester 2-56 hours
Pre-requisite: An appropriate accredited course in Anatomy. This subject aims to investigate the relationship between anatomical structure and function, particularly as it relates to the body during exercise. This subject has two sections:

i) revision of the musculoskeletal anatomy of the limbs and trunk in the anatomy laboratory. Students who have completed Musculoskeletal anatomy subjects equivalent to Functional Anatomy A (11172) and Functional Anatomy B (11173) of the Bachelor of Applied Science (Physiotherapy) programme in the Faculty of Health Sciences, University of Sydney, are exempt from this component of the subject (14 hours).

ii) advanced musculoskeletal anatomy of the limbs and trunk (42 hours)

11458 Clinical Exercise Testing and Athlete Assessment
Semester 1-56 hours
This unit will cover the basic principles of exercise testing applied to healthy, asymptomatic individuals, clinical and disabled patients and athletic populations. Topics covered include:

i) graded exercise testing for healthy, asymptomatic adults

ii) laboratory and field fitness testing for sports participants and elite athletes

iii) cardiopulmonary stress testing for symptomatic patients with cardiac disease, respiratory and central or peripheral neuropathic dysfunction

iv) laboratory and field testing of asymptomatic, disabled individuals

v) interpretation of exercise electrocardiograms and advanced techniques of cardiovascular assessment

vi) assessment of muscular strength, muscular endurance and anaerobic power in clinical, healthy or athletic populations.

Common to all testing methodologies for healthy or patient populations will be the importance of specificity, reliability, validity and sensitivity.
11459 Exercise Prescription and Practice

Semester 2-56 hours

Pre or Co-requisite: Applied Physiology II (11436)

This unit develops the concept of exercise training as potentially beneficial to cardiovascular fitness and muscular strength in healthy individuals, symptomatic patients or disabled populations. Topics covered include: i) principles of exercise prescription in healthy, asymptomatic adults ii) exercise training for sports participants and elite athletes iii) modifications of exercise prescription for clinically symptomatic individuals including cardiac patients, pulmonary disease patients and persons with central or peripheral neuropathic dysfunction iv) modifications of exercise prescription for disabled individuals v) special considerations for exercise training in women, elderly adults and children.

In addition this unit will focus upon the physiological outcomes of exercise training upon the cardiovascular, respiratory and musculoskeletal systems.

11460 Sports Nutrition

Semester 2-28 hours

This subject provides the students with background knowledge on nutrition as applied to sports performance. Special emphasis will be given to the involvement of trace elements, amino acids as a fuel, dietary fibre, use of simple versus complex carbohydrates, etc.

Practices such as bicarbonate loading, excessive intake of proteins/amino acids, ingestion of glucose polymers and "carbohydrate loading" will also be considered.

11461 Clinical Biomechanics

Semester 2-28 hours

Pre-requisite: Biomechanics II (11435)

The purpose of this subject is to improve the student’s capacity to predict the mechanical effects of training regimes, trauma, movement styles and their repetition on tissues and regions of the body, and to differentiate this response in different age groups. This will be achieved by the study of sources and characteristics of forces and the ways in which they are transmitted through the body via tissues and regions of the body. High- and low- technology biomechanical measurement methods which assist in the development of clinical biomechanical measurement protocols will be examined.

164F1 Clinical Management of Sporting Injuries

Semester 1-52 hours

This subject will focus on assessment, management and prevention of injury in athletes. This will include a critical evaluation of current procedures and practices used in the management of the sports person, and the role of the sports professional in the prevention of injuries. The subject aims to integrate relevant knowledge from related sciences into sports physiotherapy practice.
## Table 6.2  Master of Exercise and Sport Sciences by Coursework

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**Sports Science Strand**

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**Notes**

i) Students must complete Years 1 and 2 with a credit grade average before proceeding to Year 3.

ii) The availability of second year subjects will be dependent upon student demand and availability of academic staff and resources.
Master of Exercise and Sport Sciences by Coursework

This course aims to provide advanced study in the broad discipline of exercise and sport sciences. It is designed to equip graduates with in-depth understanding of applied physiology, biomechanics, motor learning and applied research together with the knowledge and skills to conduct exercise testing of symptomatic and asymptomatic population groups and prescribe appropriate exercise programmes. Sport specific studies related to nutrition and the psychosocial aspects of sport are also undertaken.

The course is divided into two stages: Stage I comprises coursework (lectures, tutorials, seminars, laboratory practicals) while Stage II includes further coursework directed towards the completion of a research project.

Admission Requirements

A. Pass Entry Level
To qualify for admission to the Master of Exercise and Sport Sciences programme, applicants shall possess an undergraduate degree in medicine, physiotherapy, occupational therapy, nursing, physical education or other related fields. A background in anatomy or biomechanics and physiology is essential.

B. Honours Entry Level
Applicants who have completed an approved Bachelors degree at honours level in medicine, physiotherapy, occupational therapy, nursing, physical education or other related fields may also be admitted into the Masters of Exercise and Sport Sciences.

C. Special Circumstances
In special circumstances a person may be admitted as a candidate on the submission of an academic transcript and professional attainment that is approved by the Faculty.

D. Holders of the Graduate Diploma in Sports Science, Graduate Diploma of Exercise and Sport Sciences or Graduate Diploma of Applied Science (Exercise and Sport Science) from Cumberland College of Health Sciences OR holders of an equivalent qualification may be granted Advanced Standing in the Master of Exercise and Sport Sciences by coursework. Such applicants will be considered on an individual merit basis by the Faculty.

E. Qualifying Statement
Notwithstanding the above requirements for admission, the Faculty may require the applicants to demonstrate, by examination or appropriate work that they are suitable candidates, before being admitted to the programme.

Note: Progression to year 3 for students admitted to the Master of Exercise and Sport Sciences is contingent upon achieving a credit grade average in Years 1 and 2. Where a credit grade average is not achieved, students who complete Years 1 and 2 successfully can graduate with a Graduate Diploma in Exercise and Sport Sciences.

Course Outline

The course outline for the Master of Exercise and Sport Sciences by Coursework is presented in Table 6.2.

Subject Descriptions

Refer to the Graduate Diploma in Exercise and Sport Sciences for the subjects in Years 1 and 2 of the Master of Exercise and Sport Sciences.

11438 Research Project
Semester 2-84 hours
Pre-requisite: Project Proposal (11462)
Co-requisite: Project Workshop (11463)
In this unit students will work individually or in small groups to conduct an investigative project related to exercise physiology, biomechanics or motor learning. This project may take one of several formats including: a quality assurance project, study of acute responses to exercise in a small sample of healthy or disabled individuals, a sports/exercise epidemiological study, extensive literature review, or a minor research project related to exercise and sports science.

11439 Applied Physiology III
Semester 1-42 hours
For subject description refer to Applied Physiology III in Master of Applied Science (Exercise and Sport Sciences) by research programme.

11440 Biomechanics III
Semester 1-42 hours
For subject description refer to Biomechanics III in Master of Applied Science (Exercise and Sport Sciences) by research programme.

11462 Project Proposal
Semester 1-28 hours
In this unit students will work individually or in small groups to develop a proposal for a research project which investigates some aspect of exercise physiology, biomechanics or motor learning. This project will be implemented in the course 11438 Research Project. In addition to writing a research proposal, students will prepare and discuss ethical issues in research with human subjects and discuss the development and submission of grant applications.
11463  Project Workshop

Semester 2-28 hours

Pre-requisite: Project Proposal (11462)
Co-requisite: Research Project (11438)

In this unit, students will further the implementation and evaluation of their research projects. The course is designed to give structure to the process of undertaking a research project in exercise physiology, biomechanics or motor learning. It provides a forum in which to exchange ideas, formulate and test concepts, report on progress (including possible pilot work), defend developments and generally develop critical faculties in relation to the requirements of the research project.
The table below refers to the standard programme for pass entry students. This programme may alter depending on the entry level of the student (see Note 1).

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Mode of Offer</th>
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<td>Special Qualifying Programme (for Masters Qualifying Students)</td>
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<td>Full-time, minimum 2 Years</td>
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<td>Part-time, minimum 3 Years</td>
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**Table 6.3  Master of Applied Science (Exercise and Sport Sciences) by Research**

The table below refers to the standard programme for pass entry students. This programme may alter depending on the entry level of the student (see Note 1).

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<tr>
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<tr>
<td>1114</td>
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**Full-time Mode**

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<td>42</td>
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<td>11439</td>
<td>Applied Physiology III OR Biomechanics III</td>
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<td>11439</td>
<td>Applied Physiology III OR Biomechanics III</td>
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<tr>
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**Notes**

1. Students may enter the programme directly into Year 2 if proceeding from an Honours degree, Graduate Diploma in Applied Science (Exercise and Sport Sciences), Master of Applied Science by coursework (Exercise and Sport Sciences), or a course of an equivalent standard, as deemed by the Faculty.
2. Students may be directed to undertake a maximum of 56 hours of 11900 Special Programme - Exercise and Sport Sciences. This may be undertaken in only one of Semester 1 or 2 for students entering with a pass degree and only in Semester 3 for students entering with an Honours degree or equivalent.
3. Students may take only one of Applied Physiology in or Biomechanics III.
Master of Applied Science (Exercise and Sport Sciences) by Research
The Master of Applied Science (Exercise and Sport Sciences) by Research provides the opportunity for research into specific areas of Exercise and Sport Sciences. This research degree comprises a minimal coursework component, designed specifically to facilitating the student’s research progress.

Admission Requirements

A Pass Entry Level
To qualify for admission to the Master of Applied Sciences (Exercise and Sport Sciences) by Research programme, applicants shall possess an undergraduate degree in science, medicine, physiotherapy, occupational therapy, nursing, human movement sciences, physical education or other related fields. A background in anatomy and biomechanics or physiology is essential. Students may be directed to undertake a qualifying programme based on coursework offered in the Master of Applied Science (Exercise and Sport Sciences) by Coursework programme.

B Honours Entry Level
Applicants who have completed an approved Bachelors degree at Honours level in science, medicine, physiotherapy, occupational therapy, nursing, human movement sciences, physical education or other related fields may be admitted into the Master of Applied Science (Exercise and Sport Sciences). These students will usually be admitted into the second year of the full-time research to be taken at the postgraduate level.

11439 Applied Physiology III
Semester 1 42 hours
This unit will enable the student to investigate in-depth selected topics in Applied Physiology. These topics will be carefully selected to ensure that the student has a strong understanding of the proposed area of research. Teaching will comprise a mix of didactic lectures and a strong component of directed learning. During this unit, students will comprehensively review and critically analyse literature in the selected topic, with associated seminar presentations.

11440 Biomechanics III
Semester 1 42 hours
In this subject the student will gain experience in the design and implementation of biomechanics research through the development of a minor research project. This process will be integrated with a critical appraisal of the major measurement tools of biomechanics through their application to programme. Students may be directed to undertake a qualifying programme based on coursework offered in the Master of Applied Sciences (Exercise and Sport Sciences) by Coursework programme.

C Graduate Diploma in Applied Science (Exercise and Sport Sciences)
Applicants who have completed a Graduate Diploma in Applied Science (Exercise and Sport Sciences) may be permitted entry into the second year of the Master of Applied Science (Exercise and Sport Sciences) by Research programme.

D Master of Applied Sciences (Exercise and Sport Sciences) by Coursework
Students having successfully completed the Master of Applied Sciences (Exercise and Sport Sciences) by Coursework degree may be permitted entry into the Master of Applied Sciences (Exercise and Sport Sciences) by Research degree.

E Special Circumstances
In special circumstances a person may be admitted as a candidate on the submission of an academic transcript and professional attainment that is approved by the Faculty. Advanced Standing may be granted for the coursework component of the Master of Applied Science (Exercise and Sport Sciences) by Research degree, by the Faculty. Students may be directed to undertake the 11900 Special Programme - Exercise and Sport Sciences.

F Qualifying Statement
Notwithstanding the above requirements for admission, the Faculty may require the applicants to demonstrate by examination or appropriate work that they are suitable candidates before being admitted to the programme.

Course Outline
The Course Outline for the Master of Applied Science (Exercise and Sport Sciences) by Research is presented in Table 6.3.

Subject Descriptions

11900 Special Programme - Exercise and Sport Sciences
The Special Programmes are not subjects in the normal sense and do not necessarily involve a common syllabus and should not be compared between individual cases.

10503 Advanced Research Methods
Semester 1 42 hours
In this subject, students will extend and consolidate the research methods and statistical skills acquired at the undergraduate level. This subject provides the underpinning for additional subjects related to specific measurement tasks and a study of some current issues in biomechanics of an advanced nature.
11448  Research Thesis
Each person will be required to submit a research proposal at the end of first semester of the full-time pass entry course. Students will not be permitted to proceed with the research thesis unless the coursework and any Special Programme (Exercise and Sport Sciences) undertaken has been satisfactorily completed. During subsequent semesters students will be expected to carry out their research under approved supervision and student seminars will be held concurrently as the research thesis develops.

The procedures for supervision, presentation and assessment of the research thesis will be in accordance with the Faculty rules for a Master of Applied Science degree in Exercise and Sport Sciences.

For details of the requirements, supervision and assessment of research thesis, Chapter 4 should be consulted.

11503  Thesis Workshop I
Semester 1-42 hours
This unit is designed to facilitate the students progress in undertaking Masters research work. It includes important practical areas such as literature researching techniques, critical review of literature, ethical considerations, scientific writing and evaluation.

11504  Thesis Workshop II
Semester 2-42 hours
This unit continues support offered to students in Thesis Workshop I, but includes evaluation of research design, development of appropriate methodologies and the development and presentation of research proposals.

11505  Thesis Workshop III
Semester 1-42 hours
This unit includes presentation of research work completed, guidance in the preparation of manuscripts, grant applications, as well as the student’s thesis.
### Table 6.4 Master of Applied Science (Human Biomedical Sciences) by Research

<table>
<thead>
<tr>
<th>Course Code</th>
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**Full-time**

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**Part-time**

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<td>Thesis Workshop 3</td>
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</table>
Master of Applied Science (Human Biomedical Sciences) by Research

This graduate programme is designed primarily to provide an opportunity for those interested in pursuing one of the Health Sciences as a career to carry out research in any of the specialised areas of Anatomy, Physiology, Microbiology, Applied Physics, Applied Chemistry, Biochemistry or in Human Sexuality.

It will enable and encourage such graduate students to engage in multidisciplinary collaborative research within the Department of Biomedical Sciences as well as with other Schools/Departments of the Faculty of Health Sciences. Such research may be in a basic scientific and/or clinical setting.

The degree comprises a minimal coursework component which will be necessary to facilitate the research projects.

Admission Requirements

i) A Bachelor of Applied Science degree from the Faculty of Health Sciences, at a credit level or higher

OR

ii) A Bachelor of Applied Science degree from the Faculty of Health Sciences at an Honours level

OR

iii) A Baccalaureate degree* preferably with a Biological background from an Australian University, at credit level or higher

OR

iv) A Bachelor of Medical Sciences degree

OR

v) A degree* deemed to be equivalent to any of the above from a Foreign University.

OR

vi) A Masters degree by coursework in a relevant/related area.

OR

vii) Submit evidence of general and/or professional qualifications* as well as satisfy the Head of the Department and Faculty that the applicant possesses the educational preparation and capacity to pursue graduate studies.

* The University of Sydney regulations require a minimum of 4 years of undergraduate studies prior to admission to Masters Degree by research.

11509 Research Thesis

Each person will be required to submit a research proposal at the end of first semester of the full-time pass entry course. Students will not be permitted to proceed with the research thesis unless the coursework and any special laboratory oriented training sessions undertaken have been satisfactorily completed. During subsequent semesters students will be expected to carry out their research under approved supervision and student seminars will be held concurrently as the research thesis develops.

The procedures for supervision, presentation and assessment of the research thesis will be in accordance with the Faculty rules for a Master of Applied Science degree.

For details of the requirements, supervision and assessment of research thesis, Chapter 4 should be consulted.

11507 Thesis Workshop I

Semester 1-42 hours

This unit is designed to facilitate the students progress in undertaking Masters research work. It includes important practical areas such as literature researching techniques, critical review of literature, ethical considerations, scientific writing and evaluation and laboratory techniques when appropriate.

11508 Thesis Workshop II

Semester 2-42 hours

This unit continues support offered to students in Thesis Workshop I, but includes evaluation of research design, development of appropriate methodologies and the development and presentation of research proposals.

11510 Thesis Workshop III

Semester 2-42 hours

This unit includes presentation of research work completed, guidance in the preparation of manuscripts, grant applications, as well as the student's thesis.

Subject Descriptions

10503 Advanced Research Methods

Semester 1-42 hours

In this subject, students will extend and consolidate the research methods and statistical skills acquired at the undergraduate level. This subject provides the underpinning for additional subjects related to research to be taken at the postgraduate level.

Department of Biomedical Sciences 6 - 17
The School of Communication Disorders was among the first group of professional schools to be established within the College when the College was formed in 1973. At that time the School offered a three-year Diploma course in Speech Pathology. Within three years the School had developed and implemented a three-year degree course that led to the award of the Bachelor of Applied Science in Speech Pathology. In 1979, the Master of Applied Science course in Speech Pathology was initiated, followed two years later by the expansion of the Bachelor's course to a 3 1/2 year, full-time course of study. As of 1993 the Bachelor level course, both pass and honours stream, is of four years duration. The School's commitment to the professional preparation of speech pathologists and to the development of the academic discipline that underpins professional practice has prompted the School to advocate continually for the offering of further advanced educational opportunities in the communication sciences and disorders. In 1990 the School admitted its first students studying at the Doctor of Philosophy (PhD) level. As a result of these developments, opportunities to study at the Bachelor's, Master's, and PhD levels are now available, as well as opportunities to pursue a Bachelor Honours degree.

The degree designed to prepare individuals to practise as Speech Pathologists (formerly known as Speech Therapists) is the Bachelor of Applied Science. The field of Speech Pathology involves the study and treatment of communication disorders in both children and adults. Speech Pathologists assess and treat in medical, educational, and private settings a wide variety of disorders resulting from varied aetiologies. In contrast to the undergraduate course, the Master of Applied Science course in Communication Sciences and Disorders is a research program designed to prepare individuals to pursue their career objectives as specialist clinicians, leaders/administrators in service delivery settings, academics, or researchers in the field of communication sciences and disorders. The Master of Communication Disorders course provides speech pathologists with the opportunity to develop specialisation in a clinical area via research. In both courses topics are individualised for students in order for them to meet their specific career objectives. At the PhD level, study is directed to focused research in an area of communication sciences and disorders. Individuals with PhDs in this area find rewarding careers in academic, research and clinical settings.
The School offers an Honours Programme within the Bachelor of Applied Science in Speech Pathology. This programme provides opportunities for talented undergraduate students interested in research and/or pursuing graduate studies to obtain early experiences in the design and conduct of research in communication sciences and disorders.

The School of Communication Disorders has a variety of facilities and resources that support its teaching, student clinical practice, research and community service activities. Its on-campus specialist area houses the Communication Disorders Treatment and Research Clinic which is a centre of excellence that serves communicatively impaired children and adults. The Audiology Clinic, and the Cumberland Stuttering Research and Treatment Clinic are also part of this Clinic.

Other unique facilities are the School's student units in area mainstream public schools and in hearing support classes. These units provide assessment and intervention for school-aged children. There are also student units located in various hospitals in the Sydney metropolitan area.

The School's Speech Science Laboratory is also housed in the on-campus specialist area. Available in the Laboratory are sophisticated spectographic analysis capabilities, laryngograph and nasometer, air flow equipment, and supporting high quality audiorecording and editing equipment. In addition to the soundproof rooms/booths in the audiology clinic, the Speech Science Laboratory has a soundproof room. Desktop computing facilities support the activities of staff and students in the Laboratory and clinics. A Speech Motor Control Laboratory has also been established. Its extensive facilities provide opportunities for measurements of various physiological mechanisms that underlie speech production.

Information about the School and its courses of study can be obtained from the Student Services Division, 646-6353, or from the School of Communication Disorders, 646-6450.
### Table 7.1 Bachelor of Applied Science (Speech Pathology)

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Notes

1 84 of these hours will be completed in an off-campus block placement either before or after Semester 2.
2 These clinical hours may be completed in a clinical block placement before or after Semester 1.

Honours students do not enrol in 12422. They are, however, encouraged to audit this subject.

□ Modified Course

Year 4 (to be first offered in 1996)

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Notes

1 84 of these hours are completed in an off-campus block placement either before or after Semester 2.
2 These will be reversed across semester for half of the students.

Modified Course

Year 1

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Year 2

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Year 3 (to be first offered in 1995)

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Notes

1 84 of these hours will be completed in an off-campus block placement either before or after Semester 2.
2 These clinical hours may be completed in a clinical block placement before or after Semester 1.
### Course Code Mode of offer

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<td>Honours Programme: Full-time, 4 Years</td>
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#### Pass Course

(for students who commenced first year of the 3 1/2 year course in 1992 or earlier)

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Notes

1. Includes 14 hours of lecture.
   Honours students do not undertake 12413.

#### Honours Programme (for 3 1/2 year course) - Additional Subjects

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#### Honours Programme (for 4 year course) - Additional Subjects

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Bachelor of Applied Science (Speech Pathology)

Developing and maintaining effective communication is each person's right; it is prerequisite for the achievement of full human potential. It is through speech and language that we learn about others and our world and express our own needs, ideas and feelings. Communication is a basic human need, and disruption of the communication process can affect social relationships, intellectual function, mental health, academic performance and vocational pursuits. The Bachelor of Applied Science (Speech Pathology) is the degree that qualifies individuals to practise as speech pathologists.

Admission Requirements

There are no specific requisites for admission to the Bachelor of Applied Science (Speech Pathology) course. Refer to the General Admission Requirements in Chapter 3.

For the Bachelor of Applied Science (Speech Pathology) Modified Course, completion of an approved Bachelor of Arts degree with majors in both Linguistics and Psychology is required.

Course Outline

The Course Outlines for the Bachelor of Applied Science (Speech Pathology) are presented in Tables 7.1 and 7.1.1.

Subject Descriptions

Yea 1

(For students commencing new 4 year course in 1993 or after)

101B5 Introductory Psychology

Semester 1-42 hours

This course offers an introduction to psychology and covers the following fundamental topics: motivation; perception; learning; intelligence; personality; life-span developmental psychology.

101B6 Cognitive and Developmental Psychology

Semester 1-14 hours

Semester 2-42 hours

This course has three strands. The first, presented in Semester 1, covers medical, psychological, and social aspects of developmental disabilities. Two strands are presented in Semester 2. One covers fundamental areas of cognitive psychology; perceptual processes; visual and auditory recognition; attention; memory; concept formation; the logic, theory, and methodology of cognitive experimentation. The other examines topics in: infant research methodology; functions and capacities of the newborn; Piaget's theory of cognitive development; sensorimotor intelligence and prelinguistic communication; the development of attention and memory; auditory perception; social cognition; the effects of birth weight and prematurity on cognitive development.

101B7 Research Methods and Statistics I

Semester 1-42 hours

This subject is designed to provide the health science student with an understanding of basic research and statistical methods with practical applications relevant to clinical practice. The focus is on statistical reasoning and extracting meaning from data. Extensive use is made of modern computer software to achieve this. The broad areas discussed are: methods for data exploration and description; strategies for data collection; statistical inference and estimation. Statistical description methods comprise numerical and graphical methods for one and two variable models including control charts and regression models. Rationales for sampling, and observational and experimental designs for data production are discussed. Inferential methods including estimating with confidence and tests of significance are introduced for one and two samples using both the normal and student-t distributions.

101B8 Disorders and their Management

Semester 2-56 hours

This course provides a theoretical and practical approach to abnormal behaviour. The first component gives an overview of disturbed behaviour within a developmental context. It also includes a discussion of non-organically based conversion reactions in voice and other speech and language disorders, and the relationship of speech and voice disorders to underlying anxiety and depression. The second component has two major aims. Firstly, the operant approach to childhood behaviour problems is considered. Secondly, behavioural principles and techniques are applied to the treatment of the anxious patient.

11176 Introductory Human Biology

Semester 1-56 hours

This subject presents aspects of the basic chemistry, biochemistry and physiology which underlie the normal function of the human body. The topics considered include general cellular structure and function, cell metabolism, protein synthesis, cell division, the principles of homeostasis, genetics and blood.

11178 Introductory Neurobiology

Semester 1-28 hours

Co-requisite: Introductory Human Biology (11176)

This subject introduces the student to the basic structure and function of the nervous system, and the physiology of nerve, receptors, synapses and neuromuscular transmission. The structure, contractile process, muscle mechanics and biochemistry of skeletal and smooth muscle are covered. The subject includes laboratory classes in which human cadavers are studied; attendance at such classes is required.
11179 Neurobiology I
Semester 2-28 hours
Pre-requisite: Introductory Neurobiology (11178)
This subject covers spinal reflex mechanisms, as well as the structure and function of the somatosensory system. There is also a discussion of the autonomic nervous system. This subject includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

11181 Body Systems I
Semester 2-56 hours
Pre-requisite: Introductory Human Biology (11176)
This is an introduction to the structure and function of the major organs of the body, including the respiratory, cardiovascular, digestive, renal and reproductive systems. The subject includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

11190 Speech and Hearing Science
Semester 1-30 hours
Semester 2-40 hours
This subject aims to provide an understanding of the physics, anatomy and physiology of speech and hearing mechanisms. It also includes the embryological development of the foetus with special reference to the organs of speech and hearing. The subject includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

12124 Linguistics
Semester 1-21 hours
Semester 2-21 hours
Nature of the communication system. Theories and methodologies of psycholinguistics and sociolinguistics, text linguistics, systemic-functional grammars. Examples from acquisition and disorder-child and adult.

12125 Professional Development I: Introduction to Clinical Learning
Semester 1-7 hours
Semester 2-14 hours
This subject introduces adult learning and professional communication skills, and provides structured observations of adult and paediatric clinics. Students commence longitudinal attachments with a family and a speech pathology client, and begin the accumulation of required Professional Development points which are acquired through relevant professional/community/student activity. Examples of relevant activity include attending a professional conference, helping at nursing home, and participating in School committees. Students will be required to complete a first aid course.

12126 Phonetics I
Semester 1-21 hours

12127 Stuttering I
Semester 1-35 hours
Management strategies for children and adults who stutter.

12128 Normal Communication Development
Semester 2-35 hours
Normal communication development in English from birth to old age, across cultures relevant to Australia.

Year 2

102A3 Cognitive Neuropsychology I
Semester 1-21 hours
Pre-requisite: Cognitive and Developmental Psychology (101B6)
This course is concerned with speech and language. The topics include the perception and production of fluent speech, the neuropsychological approach to brain-behaviour relationships, an introduction to cognitive neuropsychology, and cognitive neuropsychological models of language dysfunction.

102A4 Research Methods and Statistics II
Semester 1-28 hours
Semester 2-28 hours
Pre-requisite: Research Method & Statistics I (101B7)
Three strands make up this course. The first strand completes the core design and statistical procedures commenced in Research Methods I, internal/external validity, advanced design, regression and ethics. The second strand examines Single Research Design and Analysis and the third strand addresses issues in Social Research Design.

112B3 Neurobiology II for Communication Disorders
Semester 1-56 hours
Pre-requisite: Neurobiology I (11179)
This subject considers the anatomy and physiology of special sensory systems and the control and integration of somatic motor activity with special reference to speech. The autonomic nervous system and higher functions and adaptive properties of the nervous system are also examined. Considerable emphasis is placed on the anatomical and physiological basis of neurological problems throughout the subject. This subject includes laboratory classes where tissues from human cadavers are examined in detail. Attendance at such classes is required for the subject.
12278 Voice Science and Disorders
Semester 1-21 hours
Semester 2-28 hours
Pre-requisite: Speech and Hearing Science (11190)
The subject consists of two components:
  i) Voice Science: Current research on respiration and voice; instrumental procedures for measuring respiratory and vocal performance;
  ii) Voice Disorders: Evaluation and management of individuals with a variety of phonatory disorders.

12279 Research in Communication Disorders
Semester 1-14 hours
Skills of critiquing in research in communication disorders.

12280 Language Impairments in Children I
Semester 1-21 hours
Semester 2-21 hours
Pre-requisite: Linguistics (12124), Normal Communication Development (12128)
An overview of language impairments occurring in children; principles of language evaluation and intervention; reviews and analyses of assessment procedures, and individual and programmed intervention strategies.

12281 Articulation and Phonology
Semester 1-35 hours
Recommended Background Subjects: Linguistics (12124); Normal Communication Development (12128)
Normal phonological acquisition and its disorders; techniques for the assessment and remediation of these disorders.

12282 Professional Development II: Clinical Skills
Semester 1-21 hours
Semester 2-21 hours
Pre-requisite: Professional Development I: Introduction to Clinical Learning (12125)
The subject begins with a workshop on continuing adult learning principles. Observations in educational and interdisciplinary settings occur. Students consider issues relating to their concurrent clinical experiences. Accumulation of Professional Development points and the external attachments continue.

12283 Phonetics II
Semester 1-28 hours
Recommended Background Subject: Phonetics I (12126); Speech & Hearing Science (11190)
A study of the relationship between articulatory phonetics, acoustic phonetics and speech perception. An introduction to phonetic applications in speech pathology.

12288 Audiology
Semester 2-42 hours
Pre-requisite: Speech & Hearing Science (11190)
This course includes an introduction to types of deafness, pathologies of the ear and treatment; basic audiological tests and clinical procedures for evaluating hearing in children and adults; amplification for the hearing impaired.

12285 Speech Impairments of Neurological Origin
Semester 2-28 hours
Recommended Background Subject: Neurobiology II for Communication Disorders (122B3)
Description, evaluation and intervention strategies for speech motor disorders such as dysarthria, apraxia, and associated problems of swallowing.

12286 Language Impairments of Neurological Origin I
Semester 2-14 hours
Introduction to aphasia; overview of neurologically-based language breakdown and its management.

12287 Speech Pathology Clinical I
Semester 1-21 hours
Semester 2-31 hours
Pre-requisites: Phonetics I (12126), Normal Communication Development (12128), Professional Development I: Introduction to Clinical Learning (12125)
In Semester 1, this subject introduces students to clinical work with child clients in the on-campus clinics. Students undertake structured observations of a client and serve as therapy aides to an advanced student or clinical educator. Students also attend supervisory conferences with their clinical educator and other students. In Semester 2, this subject is comprised of 10 hours of observation in off-campus voice clinics and cleft palate clinics, and 21 hours of work and supervisory conferencing related to a child client. This clinical placement takes place in the on-campus clinics with client/s with a speech and/or language disorder. The 10 hours of observation takes place in specialist off-campus clinics affiliated with the School.

Year 3

103A7 Cognitive Neuropsychology II
Semester 1-28 hours
Pre-requisite: Cognitive Neuropsychology I (102A3)
This course is concerned with the cognitive and behavioural consequences of brain injury. Two broad areas are covered. Firstly, the causes and consequences of memory impairment, including theoretical accounts, assessment, and strategies for remediation are considered. Secondly, cognitive rehabilitation for attentional and behavioural disorders in the brain injured is addressed in the context of speech and language problems. Current controversies in the memory literature, and the relationship between experimentation and rehabilitation are addressed.
103A8 Sociology
Semester 1-28 hours
Semester 2-28 hours
Major health care issues are examined. Current issues at the macro (policy and philosophical) level are addressed. Micro issues are also considered, including stigma, sick role theory, and patient–practitioner relationships. Students are encouraged to question the relationship between values expressed as social policy, community pressures and expectations, and the value structures of health professionals. This examination of the current social forces in Australian society aims to enhance professionalism.

103A9 Patient Management: Theories and Applications
Semester 1-28 hours
Semester 2-42 hours
Pre-requisites: Introductory Psychology (101B5), Cognitive and Developmental Psychology (101B6), Disorders and their Management (101B8)
In Semester 1, two strands are covered. The first of these considers the psychological needs of the communicatively disordered client and his/her family in the context of speech pathology practice. Issues with respect to management of underlying anxiety, depression and psychological disorders in this client group will be addressed. Secondly, behaviour therapy techniques are applied to the treatment of speech and language disorders, and to behavioural problems which interfere with the process of speech therapy. In Semester 2, three major areas are covered. Firstly, the counselling process is considered, with emphasis on developing basic skills necessary for effective counselling practice. The second strand encompasses the diagnosis and remediation of learning disabilities with special reference to reading delay and reading disorders in children and adults. Students are introduced to a range of current therapies for learning disabilities, specific learning disabilities, attention deficit disorders and environmental deprivation. It considers the psychological needs of children and adults with developmental disability, cerebral palsy, multiple disabilities, autism and autistic-like conditions, and the particular communication and associated problems of children and adults with developmental disability, cerebral palsy, multiple disabilities, autism and autistic-like conditions, specific learning disabilities, attention deficit disorders and environmental deprivation. It will focus also on the special needs of bilingual and Australian Aboriginal populations.

103B1 Social and Health Psychology
Semester 2-56 hours
Pre-requisite: Introductory Psychology (101B5)
This course has two strands. Firstly, topics in social psychology are covered including: power and social exchange; leadership; group decision making; social traps; aggression; non-verbal communication; altruism and helping behaviour. Secondly, psychological and social aspects of health, illness and health care are considered. Particular emphasis is given to stress, the effects of chronic illness and disability, and the role of health practitioners.

11384 Neurology for Communication Disorders
Semester 1-14 hours
Pre-requisite: Neurobiology for Communication Disorders (112B3)
This subject examines the basis for symptomology produced by lesions in different areas of the cerebral hemispheres; neurology of speech disorders, dysphasia, and dysarthria and tumours of the central nervous system.

12325 Audiological Management I
Semester 1-35 hours
Pre-requisite: Audiology (12288) Recommended Background Subjects: Articulation and Phonology (12281); Language Impairments in Children I (12280) Recommended Background Subject: Audiological Management I (12325)
Assessment and intervention for the communication problems of congenitally and acquired hearing impaired children; reference to the degree and type of impairment with an emphasis on remedial procedures in the clinical educational environments.

12326 Audiological Management II
Semester 2-35 hours
Theoretical and clinical issues in audiology, including screening programs, noise, the hearing-impaired adult and recent developments in sensory aids.

12327 Language Impairments of Neurological Origin II
Semester 1-56 hours
Recommended Background Subject: Language Impairments of Neurological Origin I (12286)
Further study of the characteristics of acquired aphasia in adults and children; critical review of evaluation and intervention strategies. Investigation of communication breakdown and its management in dementia, non-dominant cerebral lesions, closed head injury and memory impairment.

12328 Communication Impairments in Special Populations
Semester 1-42 hours
This subject includes consideration of underlying paediatric conditions and the particular communication and associated problems of children and adults with developmental disability, cerebral palsy, multiple disabilities, autism and autistic-like conditions, specific learning disabilities, attention deficit disorders and environmental deprivation. It will focus also on the special needs of bilingual and Australian Aboriginal populations.

12329 Language Impairments in Children II
Semester 2-14 hours
Pre-requisite: Language Impairments in Children I (12280) Recommended Background Subjects: Speech Pathology Clinical I (12287); Linguistics (12124)
Advanced concepts in the assessment of and intervention for language impairment in children.
12336 Professional Development III: Management Skills
Semester 1 - 7 hours
Semester 2 - 14 hours
Pre-requisite: Professional Development II: Clinical Skills (12282)
Recommended Background Subject: Speech Pathology Clinical I (12287)
This subject involves selected tutorials on issues involved in working with adults as clients or caregivers, lectures on professional issues and advanced interaction skills and management skills. Further Professional Development points are required, and the external attachments continue.

12331 Stuttering II
Semester 1 - 21 hours
Recommended Background Subject: Stuttering I (12127)
Detailed consideration and critique of clinically relevant theories and research findings pertaining to the management of stuttering.

12338 Craniofacial Anomalies
Semester 2 - 21 hours
Recommended Background Subjects: Speech and Hearing Science (11190); Voice Science and Disorders (12276)
Problems of craniofacial anomalies, relevant nose, throat and orthodontic pathologies and their effects on communication; implications for assessment and management.

12333 Clinical Technology
Semester 1 - 21 hours
A series of workshops on applications of computer technology and speech science instrumentation in the clinical environment, and procedures for accessing such resources.

12337 Speech Pathology Clinical II: Child
Semester 1 - 23 hours
Pre-requisites: Speech Pathology Clinical I (12287), Language Impairment in Children (12280), Articulation and Phonology (12281), Professional Development II: Clinical Skills (12282)
This subject is comprised of 23 hours of clinical work and supervisory conferencing related to a child client. (2 hours of this subject will involve audiological and speech/language assessment of children with hearing impairment). This clinical placement takes place in the on-campus clinics. Students begin to work with children with specific types of communication disorders.
Semester 2 - 23 hours
This subject is comprised of 23 hours of clinical work and supervisory conferencing related to a child client. (2 hours of this subject will involve audiological and speech/language assessment of children with hearing impairment). This clinical placement takes place in the on-campus clinics. Students continue to work with children with specific communication disorders and begin to assume management of more complex clients.

12335 Speech Pathology Clinical II: Adult
Semester 1 - 23 hours
Pre-requisites: Speech Pathology Clinical I (12287), Voice Science & Disorders (12278), Speech Impairments of Neurological Origin (12285), Language Impairments of Neurological Origin I (12286), Professional Development I: Clinical Skills (12282)
This subject is comprised of 23 hours of clinical work and supervisory conferencing, which includes 2 hours of audiological, speech and language assessments. Students provide clinical services to one adult aural rehabilitation, stuttering, language, articulation voice client in the on-campus clinics.
Semester 2 - 107 hours
This subject is in two parts, the first part is comprised of 23 hours of clinical work and supervisory conferencing, which includes 2 hours of audiological, speech and language assessments. Students provide clinical services to one adult aural rehabilitation, stuttering, language, articulation voice client in the on-campus clinics. The second part of the subject introduces students to clinical work with adults with communication disorders of neurological origin. Students also gain experience with working in multi-disciplinary teams. This subject is designed to follow the course "Language Impairments of Neurological Origin II". This clinical placement takes place in off-campus clinics, full time, for 14 days each of 6 hours.

Year 4
(for students who commenced first year of the 3 1/2 year course in 1992 or earlier)

12410 Advanced Audiology and Aural Rehabilitation
Semester 1 - 28 hours
Recommended Background Subject: Speech and Language Intervention for Hearing-Impaired Children (12309)
Theoretical and clinical issues in audiology, including SCTeens programs, noise, hearing-impaired adult and recent developments in sensory aids.

12413 Research in Communication Disorders II
Semester 1 - 14 hours
Pre-requisite: Research in Communication Disorders I (12321)
Continued development of critical skills in the evaluation of research in Communication Disorders.

12414 Recent Advances in Child Language
Semester 1 - 14 hours
Pre-requisite: Language Disorders in Children (12122)
Recommended Background Subject: Linguistics II (12270)
In-depth examination of unresolved issues in the area of language development and child language disorder; implications for clinical practices are emphasised.
12415 Professional Issues  
**Semester 1-19 hours**  
Discussion of issues impacting the profession currently and implications for future directions; clinical administration and management issues; professional awareness in anticipation of entry-level employment.

12416 Craniofacial Anomalies  
**Semester 1-14 hours**  
*Recommended Background Subjects:* Biological Sciences IB (11154); Voice Science (12317); Phonetics III (12320)  
Problems of craniofacial anomalies and their effects on communication; implications for assessment and management.

12417 Cerebral Palsy  
**Semester 1-28 hours**  
*Pre-requisite:* Aphasia, Dysarthria, Apraxia (12277)  
*Recommended Background Subject:* Biological Sciences III (11378)  

12418 Speech Pathology Clinical III: Adult  
**Semester 1-98 hours**  
*Pre-requisites:* Aphasia (12316), Voice Disorders (12319), Speech Pathology Clinical II: Adult (12322) or Speech Pathology Clinical II (12311)  
Supervised clinical practice in adult clinics for 98 hours. Total case management of all types of disorders is expected. This includes interprofessional liaison. Students must obtain a total of 300 documented "client contact hours" within all Speech Pathology Clinical subjects (12269, 12276, 12322, 12323, 12418, 12419) prior to graduation.

12419 Speech Pathology Clinical III: Child  
**Semester 1-112 hours**  
*Pre-requisite:* Speech Pathology Clinical II: Child (12323) or Speech Pathology Clinical II (12311)  
Supervised clinical practice in child clinics for 98 hours plus 14 hours of lectures in counselling in speech pathology to support the clinical experience. Total case management of all types of disorders is expected. This includes interprofessional liaison and counselling of relatives. Students must obtain a total of 300 documented "client contact hours" within all Speech Pathology Clinical subjects (12269, 12276, 12322, 12323, 12418, 12419) prior to graduation.

**Honours Programme**  
(for students who commenced first year of the 3 1/2 year course in 1992 or earlier)

General information related to the Honours Programme is presented in Chapter 3. For information specific to the Speech Pathology Honours Programme, students are advised to contact the Secretary for the School of Communication Disorders.

Students in the Honours Programme complete all Year 4 subjects in the Pass Programme, except 12413 Research in Communication Disorders II from which they are exempt. In addition, students in the Honours Programme complete the following:

**Year 4**

10456 Honours Research Methods  
**Individual Studies II**  
**Semester 1-14 hours**  
**Semester 2-14 hours**  
*Co-requisite:* Honours Research Seminar II (12420)  
This subject provides a continuing opportunity for Honours students to discuss on a consultative basis with research and/or statistics academic staff members concerns regarding data analyses and interpretation related to their individual projects.

12420 Honours Research Seminar II  
**Semester 1-28 hours**  
**Semester 2-14 hours**  
*Pre-requisites:* Honours Research Seminar I (12324), Satisfactory performance in Year 3 subjects of the Pass Programme  
*Co-requisite:* Honours Thesis (12421) in Semester 2  
This seminar is designed to assist and support Honours students with their ongoing research project, to enable them to develop problem-solving strategies in the conduct of research, and to develop their skills in oral presentation of research projects. Students who complete this subject will be deemed as having completed 12413 Research in Communication Disorders II.

12421 Honours Thesis  
This subject provides Honours students with the opportunity to undertake a supervised research project in an area of human communication sciences and disorders. As part of this and other Honours subjects, each student designs and implements an approved research project and submits a thesis describing the project and its implications. In completing the research and thesis, each student works closely with an academic staff who serves as the supervisor.
Honours Programme
(for students who commenced first year of the new 4 year course in 1993 or after)

General information related to the Honours Programme is presented in Chapter 3. For information specific to the Speech Pathology Honours Programme, students are advised to contact the Honours Coordinator for the School of Communication Disorders.

Students in the Honours Programme complete all Year 3 and Year 4 subjects in the Pass Programme, except 12422 Advanced Topics from which they are exempt as long as they remain in the Honours Programme. Students in the Honours Programme are, however, encouraged to audit this subject. In addition, students in the Honours Programme complete the following:

**Year 3**

**103B4 Honours Research Methods Individual Studies I**

*Semester* 2-7 hours

*Pre-requisite:* Admission to the Honours Programme

This subject provides the opportunity for Honours students to examine and discuss on a consultative basis with research and/or statistics academic staff members concerns regarding preliminary design and data analyses related to their individual projects.

**12339 Honours Research Seminar I**

*Semester* 1-14 hours

*Pre-requisite:* Admission to the Honours Programme

This seminar is designed to assist Honours students with the development of their individual research projects for completion of their theses in Year 4. At the completion of this full-year subject, each student will have prepared a written proposal for his/her research project.

**Year 4**

**10480 Honours Research Methods Individual Studies II**

*Semester* 2-28 hours

*Co-requisite:* Honours Thesis (12430)

This subject provides a continuing opportunity for Honours students to discuss on a consultative basis with research and/or statistics academic staff members concerns regarding data analyses and interpretation related to their individual projects.

**12429 Honours Research Seminar II**

*Semester* 1-56 hours

*Pre-requisites:* Honours Research Seminar I (12339); Satisfactory performance in Year 4 subjects of the Pass degree course.

This seminar is designed to assist and support Honours student with their ongoing research project, to enable them to develop problem-solving strategies in the conduct of research, and to develop their skills in oral presentation of research projects. Students who complete this subject will be deemed as having completed Advanced Topics (12422). Students who withdraw from the Honours Programme must complete Advanced Topics (12422).

**12430 Honours Thesis**

This subject provides Honours students with the opportunity to undertake a supervised research project in an area of human communication sciences and disorders. As part of this and the other Honours subjects, each student designs and implements an approved research project and submits a thesis describing the project and its implications. In completing the research and thesis, each student works closely with an academic staff member who serves as the supervisor.
Bachelor of Applied Science
(Speech Pathology) Modified Course

Course Outline
The Course Outlines for the Modified Course are presented in Tables 7.1 and 7.1.1.

Subject Descriptions

Year 1
(for students commencing the new 2 1/2 year course in 1993 or later)

Refer to 4 year Pass Courses for subject descriptions not listed below.

101B9 Behavioural Science
(Modified Course)

Semester 1-56 hours
Semester 2-35 hours
Units selected from Behavioural Science subjects by Behavioural Sciences staff in consultation with individual students in accordance with the student's academic history.

12282 Professional Development II:
Clinical Skills

Semester 1-21 hours
Semester 2-21 hours
Observations in clinical, educational and interdisciplinary settings occur. Students consider issues relating to their future clinical experience. Accumulation of Professional Development points and the external attachments continue.

Year 2

Refer to 4 year Pass Course for subject descriptions.
### Table 7.2  Master of Applied Science (Communication Sciences and Disorders)

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<tr>
<th>Course Code</th>
<th>Mode of Offer</th>
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<td>(and subsequent years)</td>
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**Full-time Mode**

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**Total Hours**

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</table>
Master of Applied Science (Communication Sciences and Disorders)
In contrast to the Bachelor of Applied Science course in Speech Pathology, which is the professional preparation programme to practise as a generalist speech pathologist, the Master of Applied Science course in Communication Sciences and Disorders is a research program designed to prepare individuals to pursue their career objectives as specialist clinicians, leaders/administrators in service delivery settings, academics or researchers in the field of communication sciences and disorders. Completion of the course requires submission of an acceptable thesis.

Admission Requirements
In order to qualify for admission to the degree, applicants shall possess:

i) A bachelor degree in an area of relevance such as speech pathology, psychology, linguistics, education, computer studies, audiology, from an Australian tertiary institution

OR

ii) A bachelor degree in an area of relevance from an overseas institution equivalent to an Australian bachelor degree

OR

iii) Evidence of general and academic qualifications and experience as will satisfy the Academic Board that the applicant possesses the educational preparation and capacity to pursue independent research, and satisfy such additional requirements for admission to the programme, if any, as maybe prescribed by the Academic Board.

12507 Research Thesis
Supervisors will be appointed to assist the student in the conduct of the research project if approval is given for the project to be carried out. Supervision will normally involve a one-hour per week meeting with the supervisor. Facilities and equipment necessary to conduct the thesis project will be arranged with the School, subject to approval of project design and equipment necessary to conduct the project.
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<td>12508 Clinical Research Thesis</td>
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</table>
**Master of Communication Disorders**

The Master of Communication Disorders is a research program designed for qualified speech pathologists who wish to develop specialisation in a particular clinical area. The course may be taken on a full- or part-time basis. Completion of the course requires submission of an acceptable thesis on a clinically relevant topic.

**Admission Requirements**

In order to qualify for admission to the degree, applicants shall possess:

i) A bachelor degree in speech pathology from an Australian tertiary institution
   OR
   A bachelor degree from an overseas institution equivalent to an Australian bachelor degree in speech pathology
   AND

ii) A minimum of 12 months professionally relevant post-graduation experience

**12508 Clinical Research Thesis**

Supervisors will be appointed to assist the student in the conduct of a clinically relevant research project if approval is given for the project to be carried out. To assist the student in developing an acceptable clinical research project, the student will participate in supporting activities with the supervisor(s) involving mentored clinical experience in the student's chosen specialist area and clinical speciality knowledge dissemination. Clinical facilities and equipment necessary to conduct the research will be arranged with the School, subject to approval of project design.
Clinical Education

Students in the Bachelor of Applied Science course in Speech Pathology participate in a wide variety of clinical practice experiences throughout their undergraduate education. These range from observational opportunities to supervised practice with clients/patients. Clinical practice occurs in campus clinics and in hospitals, public schools, community health centres, and rehabilitation centres in metropolitan and country areas.

Ms Lindy McAllister, the School's Director of Clinical Education, coordinates students' clinical experiences.

1995 Clinical Practice Dates

Year 2
Pre-Semester 1
1/2 day between February 20-24
Semester 1
1 1/2 hours per week
February 27 - June 2
Semester 2
2 1/2 hours per week
August 7 - November 10

Year 3
Pre-Semester 1
1/2 day between February 20-24
Semester 1
3 1/2 hours per week
February 27 - June 2
Inter-Semester
3 weeks July - August, OR
3 weeks December - February
Semester 2
3 1/2 hours per week
August 7 - November 10

Year 4
Semester 1
2 days per week (13)
February 27 - June 2
The School of Community Health was established in 1987. A major role of the School is to conduct courses which prepare a wide range of health and health-related practitioners to work at the community level and in the workplace in programs which promote better health, support community development and assist clients to participate effectively in the management of their own disabilities and illnesses.

To this end, the School adopts a multidisciplinary approach to teaching and research in the health sciences and has actively sought to foster the professional development of practitioners oriented to the World Health Organisation's "Health For All" policy. Central to the School's philosophy and curriculum is a focus on the health and social needs of Aboriginal people, women, older people, immigrants and refugees from non-English speaking backgrounds, people with disabilities and other disadvantaged groups.

In 1991, the School introduced a new undergraduate course aimed at further meeting specialised needs in health science education. The Bachelor of Health Sciences is designed for students who aspire to work outside the clinical professions in areas such as community development, education, counselling and health promotion, or with special groups such as Aboriginal people or people with disabilities. The degree structure is comprised of a multidisciplinary core group of subjects and a specialist stream. In 1991 the course was offered with a specialist stream in Rehabilitation Counselling.

In 1993 the Bachelor of Health Science (Aboriginal Health and Community Development) was offered for the first time. This course adopts a holistic approach to Aboriginal health to equip both Aboriginal and non-Aboriginal people with skills and knowledge to develop programs which meet the health and community needs of Aboriginal people.

The Diploma of Health Science (Aboriginal Health and Community Development) provides Aboriginal students with the opportunity to develop skills and knowledge in areas such as health, counselling, community care and community development so that they may effectively deliver needed services in their communities. Both the BHSc (Aboriginal Health and Community Development) and the Diploma (Aboriginal Health and Community Development) are offered in block-study mode to facilitate access to these courses for the broadest range of students.

At the graduate level the School offers PhD and Master by research programs in Community Health, Rehabilitation Counselling, Gerontology and Health Science Education. Graduate Diploma and Master by coursework programs are also offered in each of these areas. A Graduate Certificate in Health Science Education was introduced in 1992. Further information about the School's programs may be obtained from the Administrative Assistant on 646-6565, who can direct enquiries to the relevant coordinators.
## Table 8.1  Diploma of Health Science  
(Aboriginal Health and Community Development)

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### Notes

1. Includes Independent Project work of 75 hours
2. Includes two 60-hour field experience placement
Diploma of Health Science (Aboriginal Health and Community Development)
The Diploma of Health Science (Aboriginal Health and Community Development) is open to Aboriginal people. It is conducted over a period of three years. During this time students: attend the Faculty full-time for 22 weeks, consisting of 11 two-week blocks; complete four weeks of field experience placements (2 two-week placements), and undertake supervised independent project work between each Faculty block.

Admission Requirements
In general, the kind of applicant sought is one with an appropriate life experience, motivated to work effectively with the Aboriginal community and possessing those personal attributes required to liaise with government department and community agencies. Applicants should be Aboriginal and have a background in at least one of the following areas:

Work Experience  - Employment over a period of some years in an area relevant to the course.

Education  - Completion of Higher School Certificate or equivalent, for example, completion of a tertiary education preparation course; some standing in a course at another tertiary institution, or completion of a health workers course conducted by an Aboriginal community organisation.

Life Experience- Voluntary participation in Aboriginal community organisations, for example, Aboriginal Education Consultative Groups, Aboriginal Lands Councils, or Aboriginal Co-operatives.

Course Outline
The Course Outline for the Diploma of Health Science (Aboriginal Health and Community Development) is presented in Table 8.1.

Subject Descriptions

Year 1

08121  Aboriginal Studies I
Semester 1-13 hours
Semester 2-18 hours
An examination of the historical, social, economic and political factors relevant to the position of Aboriginal people in today's society. The meaning of Aboriginality in a contemporary context is explored, together with issues of Aboriginal identity. The subject also provides a framework for an Aboriginal perspective in the other subjects of the Aboriginal Health and Community Development course.

08122  Communication Skills I
Semester 1-9 hours
Semester 2-8 hours
The process of communication is studied, including verbal and non-verbal forms of communication in Aboriginal communities and the process of oral tradition. Skills developed include: listening and responding skills; the fundamentals of public speaking; and the preparation of media statements.

08123  Community Care I
Semester 1-24 hours
Semester 2-12 hours
This subject provides the opportunity for students to build on their previous work experience. It provides a framework for the development of preventative and positive health practices together with knowledge and skills in the areas of public health, nutrition and some common illnesses and diseases including diabetes, hypertension and obesity. Traditional foods and medicines are also studied.

08124  Community Development I
Semester 1-87 hours
Semester 2-99 hours
Hours includes Independent Project Work of 75 hours each Semester.
The concept and process of community development is explored together with the role of community development as a strategy for health improvement. This subject also includes the principles of planning, designing and evaluating community development projects. Students are required to develop a community profile and conduct a needs survey for a given community.

08125  Counselling I
Semester 1-24 hours
Semester 2-24 hours
This subject is designed to assist the student in developing practical counselling skills within the cultural setting of Aboriginal society and to equip the student with the basic knowledge and skills to deal with a family or individual crisis.

08126  Drugs and Alcohol I
Semester 1-24 hours
Semester 2-87 hours
Hours includes 75 hours Project Work.
The social, political, psychological and physical factors which contribute to the development of alcohol and other drug related problems are examined and the pharmacology of the more common drugs, both prescribed and illegal, is studied. Skills are developed in identifying and responding to drug related crises and in assessing community needs not met by existing drug and alcohol services.
08127 Emergency Care I
Semester 1-21 hours
This subject includes the basic knowledge of emergency care and the ability to perform the associated skills in relation to shock; cardiac and respiratory arrest and cardio-pulmonary resuscitation; burns and scalds; bandaging; fracture and dislocations; eye and ear injuries; wounds; Diabetes Mellitus and fits.

08128 Management Skills I
Semester 1-5 hours
Semester 2-10 hours
This subject builds on the student's previous work experience and provides students with the range of skills and areas of knowledge required to ensure competent and well organised service delivery to the community. Emphasis is on the organisational structure of government departments and Aboriginal community organisations.

08234 Aboriginal Studies II
Semester 1-7 hours
Semester 2-24 hours
This subject is an extension of Aboriginal Studies I. It examines the historical, social, economic and political factors relevant to the position of Aboriginal people in today's society. The meaning of Aboriginality in a contemporary context is further explored, together with issues of Aboriginal identity. The subject also provides a framework for an Aboriginal perspective in the other subjects of the Aboriginal Health and Community Development course.

08235 Communication Skills II
Semester 1-12 hours
Semester 2-89 hours*
"Includes Independent Project Work of 75 hours.
This subject is a continuation of Communication Skills I. It further examines the process of communication (including non-verbal factors) and will enable students to be more effective communicators in the written, verbal and mass communication media. Skills developed include writing reports and magazine articles; preparation of project proposals and submissions; group communication and the conduct of meetings.

08236 Community Care II
Semester 1-93 hours*
Semester 2-18 hours*
"Includes Independent Project Work of 75 hours.
This subject is a continuation of Community Care I. It builds further on the student's work experience and focuses on the development of knowledge and skills in such areas as maternal and infant care, childhood and adolescent health, family planning, mental health and some common illnesses and diseases, including parasitic infestations, gastroenteritis and pneumonia.

08237 Community Development II
Semester 1-24 hours
Semester 2-87 hours
Hours includes Independent Project Work of 75 hours.
This subject further examines the principles of planning, designing and evaluating community development projects. The focus of the subject will be practical, and students will be expected to understand and apply principles taught in the course to projects they are undertaking in their work.

08238 Counselling II
Semester 1-187 hours
Semester 2-8 hours
Hours includes Independent Project Work of 75 hours.
This subject builds on Counselling I and provides for the further development of skills in the counselling process, including assessment, understanding the problem, developing an action plan, implementation and case presentation.

08239 Drugs and Alcohol II
Semester 1-12 hours
Semester 2-6 hours
This subject further develops skills in assessing drug related social and psychological problems. Understanding of the factors which contribute to the development of alcohol and drug related problems is utilised as a basis for determining strategies for the prevention of these problems in the community. This subject also explores strategies for maintaining the health and well-being of the worker who is dealing with clients with drug related problems.

08240 Emergency Care II
Semester 1-9 hours
Semester 2-6 hours
This subject provides a review and extension of the knowledge and skills developed in Emergency Care I. Emergency care in relation to stroke, heart attack, unconsciousness, acute asthmatic attack, bites and stings, accidental poisoning, emergency childbirth, multiple trauma and emergency evacuations are included.

08241 Management Skills II
Semester 1-6 hours
Semester 2-12 hours
This subject develops further the range of skills required to ensure well organised service delivery to the community. Skills in problem solving, goal setting, and productive inter-personal relationships are developed. This subject also teaches students basic computer skills involving the use of data and word processing packages.
Year 3

08304  Elective Studies

Semester 1 - 120 hours
Semester 2 - 120 hours

In this subject, students select four elective studies. Each of these involves 30 hours of classroom attendance. Two 60 hour field experience placements are undertaken during the year.

The Elective Studies include:

- Aboriginal Studies
- Community Care
- Community Development
- Counselling
- Drugs and Alcohol
- Management
- Mental Health
- Programme Planning
- Women's Health

Each of the Elective Studies will build on the knowledge and skills acquired in the previous two years with the objective of providing a stronger theoretical basis for professional practice in these areas.

08305  Elective Study Independent Project

Semester 1 - 175 hours
Semester 2 - 200 hours

This subject is designed to enable the student to undertake a major, work-related, developmental project.

The student is required to develop, implement and where possible, evaluate the proposed project and to provide a detailed report which documents the implementation process and outcomes.
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## Honours Programme - Additional Subjects

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**Notes**

Research Elective - Students select two of the following subjects, one for each year (subject to sufficient student numbers):

- 08501 Epidemiological Research
- 08502 Evaluation Research
- 08503 History and Philosophy of Scientific Methodology
- 10503 Advanced Research Methods
- 10504 Quantitative Research Methods
- 10505 Qualitative Research Methods
- 11501 Biological Measurement and Analysis
### Table 8.2.1 Bachelor of Health Science (Aboriginal Health and Community Development)

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### Honours Programme - Additional Subjects

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Notes

1. Two week block during the year
2. Three week block during first Semester
3. Research Elective - Students select two of the following subjects, one for each year (subject to sufficient student numbers):

- 08501 Epidemiological Research
- 08502 Evaluation Research
- 08503 History and Philosophy of Scientific Methodology
- 08560 Action Research
- 10503 Advanced Research Methods
- 10504 Quantitative Research Methods
- 10505 Qualitative Research Methods
- 11501 Biological Measurement and Analysis
Bachelor of Health Science (Aboriginal Health and Community Development)

Aboriginal Health and Community Development is a specialised field of community and health work. It involves the identification of health and health-related problems and the solutions to these problems within the context of the broader socio-economic development of the Aboriginal community. Community participation and initiative are strongly emphasised.

Graduates from this course will be equipped to develop programs which meet the health and community needs of Aboriginal people. They may work with specific client groups (such as in drug and alcohol or women’s health services) or in other health and community fields. Employment opportunities also exist in Aboriginal identified positions in health and community centres, and in health promotion and education.

The Bachelor of Health Science (Aboriginal Health and Community Development) course is offered in two modes: a three year full-time attendance program, and a four year block release program. The block release program entails five blocks of two-week attendance periods in each year of the course.

Admission Requirements

There are no specific Pre-requisites to the Bachelor of Health Science (Aboriginal Health and Community Development) course. The general admission requirements in Chapter 3 apply. Applicants may be required to attend the Faculty for an interview.

Course Outline

The Course Outline for the Bachelor of Health Science (Aboriginal Health and Community Development) is presented in Table 8.2.

Subject Descriptions

Year 1

08129  Australian Society and Health  
Semester 1-28 hours  
Semester 2-28 hours  
Using historical, cross-cultural and sociological principles and data, this subject investigates the relationship between the structure of Australian society, the health of its people and the organisation of its health care system.

08152  Aboriginal Studies I  
Semester 1-28 hours  
Semester 2-28 hours  
This subject consists of two units - Dreamings-Culture-Society and Culture Contact and Conflict.

Dreamings-Culture-Society gives an overview of the arrival of humans to Australia, from both an Aboriginal and non-Aboriginal perspective. As an introductory subject to the Aboriginal studies sequence, this unit will establish terms and definitions that will be found throughout Aboriginal Studies, and will provide models and information that may be referred back to during the course. Primarily, Dreamings-Culture-Society will be concerned with surveying traditional, or pre-contact, Aboriginal lifestyle, philosophy and law.

Culture Contact and Conflict will introduce students to various instances of Aboriginal contact with non-Aboriginal people, and the way relationships were established. This subject will be based on case studies from around Australia that illustrate the diversity of experience across the continent.

08153  Community Development I  
Semester 1-28 hours  
Semester 2-28 hours  
This subject provides a background to community development in Aboriginal and Torres Strait Islander communities. Students will gain an understanding of the diversity of Aboriginal and Torres Strait Islander communities of today and the impact of this diversity on the needs, development, approach, etc. It will focus on the community development process and the importance of community participation at all levels. The student will also develop skills in financial management.

08155  Health I  
Semester 1-28 hours  
Semester 2-28 hours  
This subject consists of two units - Past and Present and Drug Use.

Past and Present aims to provide the student with knowledge of cultural attitudes to health and ill-health in Aboriginal communities. Models of family, kinship, and community will be outlined to identify the role each plays in health. A holistic approach to analyse health and disease in indigenous communities will be defined.

Drug use aims to provide an overview to the complex issues surrounding alcohol and drug abuse in indigenous communities across Australia. Prevention, intervention and treatment strategies will be identified.
08156 Field Experience I  
*Semester* 2-70 hours  
This subject is an essential component in the process of developing competence as an Aboriginal Health and/or Community Development worker. It provides a graduated program which spans the three years of the course and is designed to formulate the integration of theoretical concepts and skills learnt during the course.

101A0 Health and Human Behaviour I  
*Semester* 1 -28 hours  
*Semester* 2 -28 hours  
This subject is divided into two units. The first is Introductory Psychology, including topics in perception, intelligence, personality and learning. The second unit is Social Theory, Health and Illness. It presents sociological theories and concepts with particular reference to health and human behaviour.

102A1 Health and Human Behaviour II  
*Semester* 1 -28 hours  
*Semester* 2 -28 hours  
Semester 1 is Social Psychology which deals with aspects of the behaviour of people in groups, with applications to people with disabilities. The second Semester unit, Culture, Health and Illness, provides a cross-cultural and comparative analysis of health and human behaviour. It focuses on the inter-relationship between culture, medical systems, and social organisation in non-Western and Western societies with emphasis on the health needs of Aboriginal and migrant peoples.

10393 Social Research  
*Semester* 1-28 hours  
*Semester* 2-28 hours  
This subject introduces students to the range of qualitative and quantitative research methods used in the examination of the social aspects of the health care system. Data collection and analysis, techniques associated with interviewing and observation, content analysis, survey and experimental research and secondary data analysis will be covered. Principles of evaluation research and design will be taught.

11175 Biological Sciences I  
*Semester* 1-28 hours  
*Semester* 2-28 hours  
This subject is an introduction to the systems of the body using the theme of homeostasis and will provide the basis for further study of health and illness.

08250 Aboriginal Studies II  
*Semester* 1 -28 hours  
*Semester* 2 -28 hours  
This subject identifies mechanisms of control and specifically institutionalisation, government action and Christian missionary efforts have largely been responsible for placing Aborigines into institutions. The physical and psychological effects of the earliest institutions remain with the Aboriginal community. The nature and function of government agencies for Aborigines since 1967 is also examined. This subject will maintain a theme of Aboriginal participation in Government agencies.

08154 Counselling I  
*Semester* 1 -28 hours  
*Semester* 2 -28 hours  
This subject will introduce students to the basic skills of communication and counselling. It aims to assist student to develop a broad concept of what counselling is and how it is practised in the context of Aboriginal Health and Community Development.

08254 Field Experience II  
*Semester* 2 -70 hours  
Refer to 08156 Field Experience I
### Table 8.3  Bachelor of Health Science (Rehabilitation Counselling)

<table>
<thead>
<tr>
<th>Year</th>
<th>Total Hours</th>
<th>Sem 1</th>
<th>Sem 2</th>
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## Honours Programme

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## Part-time Mode

**Year 1** (No Commencing Students in 1995)

### Year 2

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<sup>1</sup> Year 4
Honours Programme

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<tr>
<td>Year 8</td>
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Notes
1. Participation in seminars and workshops conducted at selected agencies.
2. Professional Practice II includes
   (a) 105 hours (3 weeks) of field experience/agency work to be completed by the end of Semester 1.
   AND
   (b) a 210 hours block placement (6 weeks) to be undertaken in the inter-Semester recess
3. Professional Practice III consists of a 210 (6 weeks) block placement in the inter-Semester recess.
4. Research Elective. Students select two of the following subjects, one for each year (subject to sufficient student numbers)
   08501 Epidemiological Research
   08502 Evaluation Research
   08503 History and Philosophy of Scientific Methodology
   08560 Action Research
   10503 Advanced Research Methods
   10504 Quantitative Research Methods
   10505 Qualitative Research Methods
   11501 Biological Measurement and Analysis
5. Applicants must be aware that some subjects will only be available during the daytime.
Bachelor of Health Science (Rehabilitation Counselling)

This course is designed to provide for the development of professional skills and knowledge necessary for entry into Rehabilitation Counselling. Rehabilitation Counsellors are concerned with the development, implementation and management of rehabilitation programmes for individuals who have become disabled through illness, accident or developmental disadvantage. The aim of such programmes is to enable such individuals maximum participation in community life.

The degree can be completed on a full-time or part-time basis. A minimum of 3 years enrolment is required for those undertaking the course on a full-time basis. A minimum of 6 years enrolment is required if the course is undertaken on a part-time basis. Enrolment for those undertaking the Honours component (which is entered at the commencement of 3rd Year) is 4 years full-time and 8 years part-time urimum.

The programme is divided into two streams, a core stream of subjects and a discipline specific stream. The core stream includes studies in community health, behavioural sciences and biomedical sciences. The discipline specific stream covers skill and knowledge areas specific to the profession of rehabilitation counselling.

Admission Requirements

There are no specific requirements for admission to the Bachelor of Health Science (Rehabilitation Counselling). Refer to general admission requirements in Chapter 3. Mature aged applicants are encouraged to apply and need to meet the following requirements:

1. Professional or academic attainment other than HSC;
   AND
2. A commitment to work in the rehabilitation counselling field;
   AND
3. Preferably a minimum of one year's full-time employment in the areas of rehabilitation, counselling and/or education.

Mature aged applicants will be required to attend the Faculty for an interview.

Course Outline

The Course Outlines for the Bachelor of Health Science (Rehabilitation Counselling) full-time and part-time modes are presented in Table 8.3.

Subject Descriptions

<table>
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<tr>
<th>Code</th>
<th>Subject Description</th>
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<tr>
<td>08129</td>
<td>Australian Society and Health</td>
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<td>Semester 1-28 hours</td>
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<td></td>
<td>Semester 2-28 hours</td>
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<tr>
<td></td>
<td>Using historical, cross-cultural and sociological principles and data, this subject investigates the relationship between the structure of Australian society, the health of its people and the organisation of its health care system.</td>
</tr>
<tr>
<td>08130</td>
<td>Introduction to Health Research and Ethics</td>
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<tr>
<td></td>
<td>Semester 1-28 hours</td>
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<tr>
<td></td>
<td>Semester 2-28 hours</td>
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<tr>
<td></td>
<td>This subject provides an introduction to the principles and processes of health research. It will provide a broad overview of research methods used in the health arena including history of scientific method, clinical and biological approaches, demography, epidemiology, evaluation, social research methods and theories and philosophy of science.</td>
</tr>
<tr>
<td>08131</td>
<td>Rehabilitation Theory I</td>
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<tr>
<td></td>
<td>Semester 1-42 hours</td>
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<tr>
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<td>Semester 2-28 hours</td>
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<td>The first Semester of this subject introduces and provides extensive practice in the microskills involved in the initial assessment interview. The aim is the development of basic interpersonal skills necessary for a therapeutic relationship. The second Semester will provide continued practice along with the integration of major theories and applications of counselling used within rehabilitation with the microskills developed in Semester one. The aim is to develop students' understanding of the application of microskills within the various models of counselling.</td>
</tr>
<tr>
<td>08132</td>
<td>Rehabilitation Counselling I</td>
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<tr>
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<td>Semester 1-28 hours</td>
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<td></td>
<td>Semester 2-28 hours</td>
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<tr>
<td></td>
<td>This subject introduces and provides practice in the purposeful application of interviewing skills in the counselling process. Also it aims to develop students' understanding of the application of counselling theories and practices in the process of rehabilitation counselling.</td>
</tr>
</tbody>
</table>
08133  Vocational Rehabilitation I  
**Semester 1**
Vocational Development, Counselling and Disability, 14 hours.
This subject provides a general overview of the fields of vocational psychology and vocational rehabilitation. Examination is made of the vocational development process and the impact of disability upon this process. Theories of vocational development are analysed with special reference to their appropriateness to individuals with disability.

**Semester 2**
Vocational Counselling, Planning and Disability, 28 hours
This subject introduces students to the process of vocational rehabilitation and to stress the importance that vocational counselling plays in the overall success of this process. A vocational counselling framework and the tools and resources to support it will be presented to students. Strategies for planning for and implementing vocational counselling decisions will also be introduced.

08135  Professional Practice I  
75 hours (see Field Experience/Professional Practice Section)
This subject comprises an essential component of the overall process of developing professional competence and identity as a rehabilitation counsellor. In the first year of the subject, students will be familiarised with the role and function of the rehabilitation counsellor through field visits, participation in seminars and workshops conducted at selected agencies, and tutorials in preparation for field placements.

101A0  Health and Human Behaviour I  
**Semester 1** 28 hours  
**Semester 2** 28 hours
There are two units. **Semester 1**, Introductory Psychology, examines major concepts related to learning, intelligence, motivation, perception and personality. The second unit is Social Theory, Health and Illness. It presents sociological theories which have particular relevance to human behaviour in health and illness.

101B4  Disability Studies I  
**Semester 1** 28 hours  
**Semester 2** 28 hours
Analysis is made of the impact of disability, trauma and illness from a developmental and cultural perspective. Special reference is made to the impact of disability from the viewpoint of different cultural groups within the Australian community.

11175  Biological Sciences I  
**Semester 1** 28 hours  
**Semester 2** 28 hours
This subject is an introduction to the systems of the body using the theme of homeostasis and will provide the basis for further study of health and illness.

08243  Health Promotion  
**Semester 1** 28 hours  
**Semester 2** 28 hours
This subject provides an overview of the principles and practice of health promotion. It is designed to give students a theoretical perspective of health promotion within a public health and community based framework, with particular emphasis on the range of different approaches to health promotion, the use of epidemiological, behavioural and qualitative data in a systematic manner for the determination of health promotion priorities and the planning and evaluation of community based health promotion interventions.

08244  Epidemiology  
**Semester 1** 28 hours  
**Semester 2** 28 hours
This subject introduces students to the basic principles of epidemiology: the study of the distribution of disease and the search for the determinants of that observed distribution. Measurement and validity issues involved in this search for cause-effect relationships are introduced.

The integral role of biostatistics in the planning and data-analysis stages of epidemiological projects is reviewed. The general aim of this course is for the students to be familiar with terms used in epidemiology and to be able to critically evaluate selected epidemiological literature.

08245  Rehabilitation Theory II  
**Semester 1**
Occupational Rehabilitation I, 28 hours
This subject has been designed to provide students with a broad conceptual framework for understanding historical developments in work organisation and work practices in modern industrial society. The course will highlight developments in psychology and sociology that have had an impact on labour organisation. Particular attention will be paid to issues of significance to vocational rehabilitation such as occupational health, women in the workplace and issues relating to workers from immigrant backgrounds.

**Semester 2**
Occupational Rehabilitation II, 28 hours.
The aims of this subject are to describe the pattern of occupational injury and illness in Australia and to explain it in terms of the organisation of work; and also to analyse the rehabilitation of people with work-related disabilities in the context of the various social strategies devised to deal with the widespread failure of measures to prevent workplace injuries and illnesses.
08246 Rehabilitation Counselling II
Semester 1-28 hours
Semester 2-28 hours
Semester one of this subject introduces students’ to the theory and practice of the interpersonal process approach to counselling. Particular emphasis is placed on conceptualisation of the client's interpersonal style and its affect on the rehabilitation process. Semester two focuses on the theory and practice of cognitive approaches to rehabilitation counselling. The aim of the subject is students’ understanding and practice of the techniques and processes involved in these theories of counselling.

08247 Vocational Rehabilitation II
Semester 1
- Vocational Assessment: Client and Work Environment I, 28 hours
This subject aims to give students an appreciation of the importance of appropriate evaluation of the client as an adjunct to vocational counselling and overall vocational planning. To expose students to the range of client assessment techniques available and discuss the relevance of various techniques to specific disability groups.

Semester 2 Vocational Assessment: Client and Work Environment II, 28 hours.
This subject highlights the need to assess the workplace and specific jobs in tandem with client assessment. To assist students to appreciate the differing demands of jobs and to accept that these demands can be modified by implementing appropriate forms of change at the worksite.

08249 Professional Practice II
Pre-Semester -105 hours
Inter-Semester -210 hours
This subject includes 2 field practice placements to be undertaken at separate agencies. The first placement will provide students with an orientation to the practical application of their studies through 105 hours of field experience in any agency of their choice. This placement is to be completed by the end of Semester 1. Students are strongly advised to undertake this first placement in the pre-year-2 annual recess in order to avoid overload during Semester time.

The second placement is a 210 hours (6 weeks) practicum to be undertaken as a block during the inter-Semester recess. The practicum will provide students with opportunities to put into practice their supervised setting relevant to their studies.

102A1 Health and Human Behaviour II
Semester 1-28 hours
Semester 2-28 hours
Semester 1 is Social Psychology which deals with aspects of the behaviour of people in groups, with applications to people with disabilities. The second Semester unit, Culture, Health and Illness, provides a cross-cultural and comparative analysis of health and human behaviour. It focuses on the inter-relationship between culture, medical systems, and social organisation in non-Western and Western societies with emphasis on the health needs of Aboriginal and migrant peoples.

102A2 Disability Studies II
Semester 1-28 hours
Semester 2-28 hours
In the Semester 1 unit, Behaviour Disorders and Management, the application of behavioural techniques to a variety of situations is studied. These techniques are employed in changing old habits and learning new skills, in managing pain, loss of function, stress, illness and stigma, in drawing up contracts such as the rehabilitation program plan, in job coaching and employer negotiations. The Semester 2 unit is Mental Health Issues, an analysis of issues which health professionals deal with in their everyday work.

112A2 Biological Science II
Semester 1-28 hours
Semester 2-28 hours
This subject is divided into 4 units. The first two will run in Semester 1. Unit 1 will cover medical terminology and nutrition and Unit 2 will be an introduction to the principles of cross infection and the operation of the immune system. Units 3 and 4 will run in Semester 2. Unit 3 will examine the biological processes and changes in the human organism over the life span and Unit 4 will be an introduction to basic pharmacological principles and actions of the major drug groups.

08306 Health Planning, Policy and Evaluation
Semester 1-28 hours
Semester 2-28 hours
This subject is designed to provide an understanding of the basic concepts and approaches in health policy, planning and evaluation. Students will be introduced to methodologies and techniques used in policy analysis, public health planning, and program evaluation. The subject will build on theories and skills acquired in previous years particularly quantitative and qualitative methodological, statistical and social science methods. Special emphasis will be placed on the multidisciplinary nature of health policy, planning and evaluation within a public health framework.
08307 Contemporary Issues in Health, Law and Medicine
Semester 1 - 28 hours
Semester 2 - 28 hours
This subject will introduce students to an understanding of the Australian legal system and general principles and law governing human behaviour. This subject will provide the student with an understanding of the relationship between disability, health and the law. It is designed to give students and understanding of how the law affects persons with a disability (social or physical) and to allow them to explore possible avenues for reform of the law. The subject also provides the student with an opportunity to familiarise themselves with contemporary issues in health and medicine. The combined knowledge and skills of their previous subjects in this strand will be utilised in their critical evaluation of these issues.

08308 Vocational Rehabilitation III
Semester 1 - 28 hours
Semester 2 - 28 hours
Students are introduced to the placement process and the issues involved in securing meaningful work for persons with disabilities. Students will also become aware of the problems faced by individuals when they return to work following injury or disability. Students are also introduced to an approach to "marketing" clients in the work place in order to increase the job options that are made available to them. Post-placement services that can be offered in order to encourage longterm mutually beneficial relationships between employers and rehabilitation counsellors/providers are outlined.

08309 Disability Studies III
Semester 1 - 28 hours
Semester 2 - 28 hours
The rehabilitation counsellor deals with persons from a wide range of disability groups. Whilst the principles of rehabilitation have general application across all types of disability, certain groups have special needs which counsellors should take into account. This unit provides students with the opportunity to develop special skills and knowledge in two selected areas from the electives offered. Each elective topic will be of one Semesters duration and each student will undertake one elective in each Semester.

The electives currently offered are:
- Psychiatric Rehabilitation
- Rehabilitation and Drug Abuse
- Rehabilitation of Public Offenders
- Rehabilitation of Persons with Intellectual Disability
- Rehabilitation and Older People
- Rehabilitation and Persons with Traumatic Brain Injury
- Rehabilitation of People from Non English Speaking Backgrounds
- Rehabilitation of people with HTV/AIDS
- Rehabilitation of People with Hearing Loss

08310 Special Project
Semester 1 - 28 hours
Semester 2 - 28 hours
Students are required to research (in small groups) an area of rehabilitation counselling practice or disability. Students are also required to present findings of their research in Semester 2 of the course.

08311 Professional Practice III
Inter-Semester - 210 hours
Students are required to complete a supervised 6-week full-time block placement in a rehabilitation or related program. As the final practicum of the three-year professional practice program, the students will be expected to put into practice their knowledge and skills in rehabilitation counselling through case management and rehabilitation planning, in a supervised setting.
08313 Rehabilitation Counselling III
Semester 1-28 hours
Semester 2-28 hours
This subject provides students with a general overview of the principles and processes involved in effective case and caseload management in rehabilitation. It also outlines techniques and strategies to be utilised in order to achieve and maintain control over individual cases in the face of increasing caseload numbers.

10393 Social Research
Semester 1-28 hours
Semester 2-28 hours
This subject introduces students to the range of qualitative and quantitative research methods used in the examination of the social aspects of the health care system. Data collection and analysis, techniques associated with interviewing and observation, content analysis, survey and experimental research and secondary data analysis will be covered. Principles of evaluation research and design will be taught.

11381 Biological Sciences III
Semester 1-28 hours
Semester 2-28 hours
This subject will allow students to undertake study in four topic areas covering contemporary issues in health and human biology. It is expected that these areas will be of particular interest to students in their future professional roles. It will provide the opportunity to achieve confidence in dealing with biologically based material, to understand scientifically technical language and to interpret biologically based data.

Students are able to select from the following topic areas:

- Substance abuse
- Nutritional disorders
- Reproductive health
- Exercise physiology and training for special groups
- Sexual health care
- Head injury
- Sexually Transmitted Diseases
- Drug use and abuse
- Adolescent health
- Ageing
- Healthy ‘Lifestyle’
- Pollution - health effects
- Cross cultural health care concerns
- Contraceptive choices

Honours Programme

Research Elective
For Research Elective subject descriptions, see Appendix 1.
**Table 8.4 Graduate Certificate in Health Science Education**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Mode of Offer</th>
<th>Total Hours</th>
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<td>08431</td>
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Notes
- Participants undertake to study one (1) elective of 28 hours duration. This elective is normally taken within the School (subject to staff and student availability) such as:
  - 08432 Independent Investigation I
  - 08482 Large Group Teaching
  - 084AO Distance Learning

**Full-time Mode**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Mode of Offer</th>
<th>Total Hours</th>
<th>Sem 1</th>
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Notes
- Electives:
  - Undertake to study one elective of 28 hours duration. This elective is normally taken within the School (subject to staff and student availability) such as:
    - 08515 Teaching with Reduced Resources
    - 08520 Clinical Teaching and Supervision
    - 08552 Computers for Teacher Productivity
    - 08507 Educational Practice
    - 08466 Independent Investigation 11

Participants with a health education focus are encouraged to select electives from the Community Health program of offerings, in particular,
- 08490 Community Development

other electives of relevance include:
- 08488 Counselling Theory and Practice
- 08452 Drug and Alcohol Studies
- 08449 Issues in Community Medical Health
- 08445 Women’s Health
- 08450 Occupational Health and Safety
- 08457 Community Nutrition

² Participants with a health education focus should enrol in Introduction to Health Education as an alternative to Student Assessment, Evaluation and Development.
Graduate Certificate in Health Science Education

The Graduate Certificate is designed to provide professional development for teachers across the health sciences who wish to enhance their knowledge and skills in planning and implementing effective face-to-face teaching with students, peers, patients, clients, carers or community groups. Knowledge and skill development offered through this program would suit health professionals working in roles such as lecturer, tutor, clinical educator, demonstrator, mentor, preceptor, health educator, community educator, patient educator or in-service trainer. Participants can choose to specialise in studies relevant to either teaching and academic and clinical settings or facilitating health education in community settings. Studies with a health education focus are only available to part-time students. The course is offered in the evenings full-time for Semester 1 only in any year or part-time over one year.

On successful completion of the Graduate Certificate program students may apply to articulate into the Graduate Diploma with advanced standing for stage 1 of that award.

Admission Requirements

1. hold a 3 year diploma in relevant health science; OR
2. have other professional qualifications and or experience as will satisfy the Faculty that the applicant possesses the educational capacity to pursue graduate studies, and satisfy such additional requirements for admission to the program, as may be prescribed by the Faculty; AND
3. have completed a minimum of one year full-time experience as a health professional.

Current or recent experience in teaching would be considered desirable.

Course Outline

The course outline for the Graduate Certificate in Health Science Education is presented in Table 8.4.

Subject Descriptions

Participants complete four (4) subjects and one (1) elective.

08426 Group Dynamics

*Semester 1-42 hours*

Using the focus of the group and a series of task requirements participants gain both theoretical knowledge about the way in which group dynamics underpin small group learning and skills in facilitating the process, both as members and leaders of learning groups. (It is desirable for participants to have completed or be enrolled in at least two subjects in this course in order to have sufficient experience of group learning to undertake this subject).

08431 Producing and Using Audio-visual Materials

*Semester 1-42 hours*

*Co-requisite: Instructional Design and Teaching Skills (08505)*

This subject provides a workshop environment in which participants can explore and experiment with the necessary equipment and techniques required to produce or select and use various audiovisual media to enhance learning. Problem solving strategies for common equipment failure is included.

08434 Student Assessment, Evaluation and Development

*Semester 2-42 hours*

*Pre-requisite: Instructional Design and Teaching Skills (08505)*

Participants examine the role and methods of student assessment and evaluation in health science curricula. This includes developing skills in valid and reliable assessment and evaluation of student performance.

08481 Introduction to Health Education

*Semester 2-42 hours*

This subject is taken as a core subject alternative to 08434 by students in the health education stream. Participants explore national and international policies and perspective influencing health education, and look at ways these have been translated into strategies for intervention. Participants will develop knowledge about some of the theories and models that underpin health education and begin to develop skills in using these to plan interventions.

08504 Adult "Learning in the Health Sciences

*Semester 1-28 hours*

In this subject participants will develop their knowledge about theories of learning, the process of learning, the role of the teacher and learner in health science education, trends in higher education and the context of health science education.

08505 Instructional Design and Teaching Skills

*Semester 1-28 hours*

Emphasis in this subject is on the development of basic skills in planning and effective communication for learning. Participants learn planning skills by undertaking instructional design and use microteaching methods to practice and develop effective teaching skills.

Electives

Participants complete a total of one (1) elective of 28 hours duration during the course. For elective subject descriptions, see Appendix 1.
## Table 8.5  Graduate Diploma in Health Science Education

<table>
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<td>08506</td>
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<td>08508</td>
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### Full-time mode

- **Year 1**
- **Year 2**

### Part-time Mode

- **Year 1**
- **Year 2**
Electives: Participants undertake to study a total of three (3) electives. Each elective is of 28 hours duration. Electives would normally be taken within the School or Faculty (subject to staff and student availability), such as:

- 08432 Independent Investigation I
- 08466 Independent Investigation II
- 08482 Large Group Teaching
- 08513 Current Issues in Education in the Health Sciences
- 08507 Educational Practice
- 08514 Introduction to Educational Computing
- 08515 Teaching with Reduced Resources
- 08520 Clinical Teaching and Supervision
- 08552 Computers for Teacher Productivity
- 084AO Distance Learning

Participants with a health education focus are encouraged to choose from the following elective options, subject to student numbers and staff availability:

- 08521 Introduction to Community Health Policy and Services
- 08522 Introduction to Epidemiology and Biostatistics
- 08523 Australian Society and Health
- 08447 Migrant and Refugee Health
- 08446 Aboriginal Health
- 08453 Health in Developing Countries
- 08488 Counselling Theory and Practice
- 08452 Drug & Alcohol Studies
- 08449 Issues in Community Mental Health
- 08445 Women's Health
- 08457 Community Nutrition
- 08524 Critical Appraisal

Participants with an academic focus can use the elective options to build up their research skills and knowledge. Subjects offered elsewhere in the University may be considered, in consultation with the Course Co-ordinator (subject to student and staff availability and the approval of the Head of School).

1. Participants with a health education focus should enrol in Introduction to Health Education as an alternative to Student Assessment, Evaluation and Development.
2. Participants with a health education focus should enrol in 08509 Management and Evaluation of Health Education Programs.
Graduate Diploma in Health Science Education

The Graduate Diploma in Health Science Education is designed to meet the professional development needs of lecturers, clinical educators, in-service co-ordinators, patient and health educators who have a substantial teaching role including responsibility for the planning and implementation of academic subjects, clinical experience, continuing education seminars and workshops and other types of small and large group educational experiences.

Coursework develops theory and practice in effective face-to-face facilitating of learning and the planning, management and evaluation of more complex learning events and overall curriculum or health education programs. The elective program offers participants the opportunity to focus their studies on any of the following: student education, including clinical education, continuing education or health education.

Principles of adult learning in the context of health influence the structure of the course and the selection of learning strategies such as group discussion, experiential learning, problem-based learning and independent learning by personal contract.

The course is offered in the evenings on a full-time or part-time basis, and can be completed in a minimum of one-year full-time or two years part-time. Studies with a health education focus are only available to part-time students.

The Graduate Diploma is equivalent to Years 1 and 2 of the Masters in Health Science Education. On successful completion of the Graduate Diploma program students may apply to articulate into the Masters with advanced standing for stage 1 and stage 2 of that award.

Admission Requirements

1. Bachelor degree in a relevant area of the health sciences;
   OR
   have such professional qualifications and/or experience that will satisfy the Faculty or have completed all requirements for the Graduate Certificate in Health Science Education with a credit or above average;
   AND
   3. have a minimum of 1 year's full-time professional experience. Current or recent experience in teaching will be considered desirable.

Note: Participants wishing to transfer (or articulate) from the Graduate Certificate into the Graduate Diploma should complete a Course Application form and submit this to Student Services by 30 September.

Course outline

The Course Outline for the Graduate Diploma in Health Science Education is presented in Table 8.5.

Subject Descriptions

Subjects are similar to the Graduate Certificate in Health Science Education. Participants must complete a total of ten (10) subjects including seven (7) core subjects, three (3) electives. Please refer to subject descriptions on page 8 - 21.

08434 Student Assessment, Evaluation and Development

Semester 2 - 42 hours
Pre-requisite: Instructional Design and Teaching Skills (08505)
Participants examine the role and methods of student assessment and evaluation in health science curricula. This includes developing skills in valid and reliable assessment and evaluation of student performance.

08481 Introduction to Health Education

Semester 2 - 42 hours
This subject can be taken as a core subject alternative to 08434 by students in the health education stream. Participants explore national and international policies and perspectives influencing health education, and look at ways these have been translated into strategies for intervention. Participants will develop knowledge about some of the theories and models that underpin health education and begin to develop skills in using these to plan interventions.

08506 Planning, Implementing and Evaluating Educational Experiences

Semester 1 - 28 hours
Pre or Co-requisite: Group Dynamics (08426)
In this subject students explore issues in the management of more complex educational experiences, such as problem-based learning, experiential learning, self-directed learning and workshop processes.

08508 Management and Evaluation of Curriculum

Semester 1 - 42 hours
Pre-requisite: Instructional Design and Teaching Skills (08505)
This subject develops further knowledge about the design, management and evaluation of learning programs. Curricula issues in the health sciences are explored.

08509 Management and Evaluation of Health Education

Semester 1 - 42 hours
Pre or Co-requisite: Introduction to Health Education (08481)
Participants with a health education focus can choose to undertake this subject as an alternative to Management and Evaluation of Curriculum. Part of this subject may be undertaken using personal learning contract.

Electives

Participants complete a total of three (3) electives during the course. Each subject is 28 hours duration. For elective subject descriptions, see Appendix 1.
### Table 8.6 Master of Health Science Education by Coursework

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<td>0830</td>
<td>Part-time; 6 Semesters</td>
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#### Full-time mode

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<th>Course Title</th>
<th>Hours</th>
<th>Sem 1</th>
<th>Sem 2</th>
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<td>Elective A</td>
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#### Year 2 (for students who undertook year 1 in 1994) last offered in 1995

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Year 3 (for students who undertook year 2 in 1994) last offered in 1995

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<td>Research Elective A</td>
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</table>
Notes

1 Electives: Participants undertake to study a total of three (3) electives. Each elective is of 28 hours duration. Electives would normally be taken within the School or Faculty (subject to staff and student availability), such as:

- 08432 Independent Investigation I
- 08466 Independent Investigation II
- 08482 Large Group Teaching
- 08513 Current Issues in Education in the Health Sciences
- 08507 Educational Practice
- 08514 Introduction to Educational Computing
- 08515 Teaching with Reduced Resources
- 08520 Clinical Teaching and Supervision
- 08552 Computers for Teacher Productivity
- 084AO Distance Learning

Participants with a health education focus are encouraged to choose from the following elective options, subject to student numbers and staff availability:

- 08490 Community Development
- 08521 Introduction to Community Health Policy and Services
- 08522 Introduction to Epidemiology and Biostatistics
- 08523 Australian Society and Health
- 08447 Migrant and Refugee Health
- 08446 Aboriginal Health
- 08453 Health in Developing Countries
- 08488 Counselling Theory & Practice
- 08452 Drug & Alcohol Studies
- 08449 Issues in Community Mental Health
- 08445 Women's Health
- 08457 Community Nutrition
- 08524 Critical Appraisal

Subjects offered elsewhere in the University may be considered, in consultation with the Course Coordinator (subject to student and staff availability and the approval of the Head of School).

2 Participants with a health education focus should enrol in Introduction to Health Education as an alternative to Student Assessment, Evaluation and Development.

3 Participants with a health education focus should enrol in Management and Evaluation of Health Education Programs as an alternative to enrolling in Management and Evaluation of Curriculum.

4 Participants who completed Year 2 of the program prior to 1994 should consider taking Management and Evaluation Curriculum OR Management and Evaluation of Health Education Programs instead of Research Elective.

5 Participants undertake one Research Elective such as any of those shown below.

- 08502 Evaluation Research
- 08503 History and Philosophy of Scientific Methodology
- 08516 Issues in Educational Research
- 08517 Research Elective Independent Study
- 08560 Action Research
- 10503 Advanced Research Methods
- 10504 Quantitative Research Methods
- 10505 Qualitative Research Methods
- 10514 Survey Research Methods

6 Investigative Project B has a larger word length requirement than Project A. Choice of project should be made in consultation with the Course Coordinator.
Master of Health Science Education by Coursework
This course offers professional development for managers of learning in the health sciences, including health education. The course structure reflects the need for educators to first understand the processes of teaching and learning from both a theoretical and practical perspective, in order to positively influence and manage curricular practice in the many settings for education in health. Year 1 develops knowledge and skills in effective class and clinical teaching; Year 2 extends competence to planning, processing and evaluating more complex educational experiences and curriculum and Year 3 enables participants to apply their knowledge of education to a problem or issue in curriculum design, innovation or evaluation. Participants with a health education focus use an extensive elective program to extend their knowledge of the many settings, populations, health issues and approaches to change that relevant to this field.

The course is offered on a full-time or part-time basis. Studies with a health education focus are only available on a part-time basis. Participants in the full-time program need to begin work on their Investigative Project before commencing their final year. Participants with either a health education or academic focus should discuss their program of study with the course co-ordinator.

Admission Requirements
1. Bachelors degree in a health science field or other relevant area;
OR
2. submit other evidence of general and professional qualifications and/or experience, as well as satisfy the Faculty that the applicant possesses the educational capacity to pursue graduate studies, and satisfy such additional requirements for admission to the program, if any, as may be prescribed by the Faculty;
AND
3. have completed at least one year full-time practice as a health science professional.
Current or recent experience in teaching will be considered desirable.

Note: Participants wishing to transfer or articulate from the Graduate Diploma in Health Science Education into the Master of Health Science Education should complete a Course Application form by 30 September and submit this to Student Services. Admission of non-Bachelor entry students to the Master of Health Science will be contingent upon achieving a credit grade average.

Course Outline
The Course Outline for the Master of Health Science Education by Coursework is presented in the Table 8.6.

Subject Descriptions
Subjects are similar to the Graduate Certificate in Health Science Education and Graduate Diploma in Health Science Education. Participants must complete a total of fourteen (14) subjects including six (6) core subjects, three (3) electives, Project Seminar and Investigative Project plus 1 (or 2) research electives. Please refer to subject descriptions on pages 8-21 and 8-24.

08511 Project Seminar
Semester 1 - 28 hours
This subject provides a seminar setting for students preparing the proposal for their major project. Whilst not examinable in itself, students will gain further skills in project development and progress reporting, and will have the opportunity for peer review and feedback concerning their proposal.

08512 Investigative Project A
Pre-requisite or Co-requisite: 08511 Project Seminar PLUS 2 Research Electives.
This project provides participants with an opportunity to either undertake a major investigation project of a significant educational topic or issue, or complete a plan for a needs assessment, curriculum development or evaluation.

08554 Investigative Project B
Pre-requisite or Co-requisite: 08511 Project Seminar PLUS 1 Research Elective.
This project provides participants with an opportunity to either undertake a major investigation project of a significant educational topic or issue, or complete a plan for a needs assessment, curriculum development or evaluation.

Electives
Participants complete a total of four (4) electives during the course. Each subject is 28 hours duration. For elective subject descriptions, see Appendix 1.

Research Elective
Participants undertake one (or two) research electives. Relevant subjects offered by the Faculty in this area are listed in the course outline for the Masters by research. Participants select from these in consultation with the Course Co-ordinator. For Research Elective subject descriptions, see Appendix 1.
### Master of Health Science (Education) by Research

#### Course Code

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#### Notes

Research elective subjects: students select four electives relevant to educational research, and normally offered through the Faculty (subject to sufficient numbers). These include:

- 08502 Evaluation Research
- 08503 History and Philosophy of Scientific Methodology
- 08516 Issues in Educational Research
- 08517 Research Elective Independent Study
- 08560 Action Research
- 10503 Advanced Research Methods
- 10504 Quantitative Research Methods
- 10505 Qualitative Research Methods
- 10514 Survey Research Methods

Issues in Educational Research is required to be taken by all students.
Master of Health Science (Education) by Research
This course is designed to provide participants with the opportunity to undertake research into the process of teaching and learning in their professions. Graduates from this course will be able to undertake research in education and also contribute to research activities in their professional field.

Admission Requirements
1. Bachelor degree at Honours level in a health science field or other relevant area;
   OR
2. Bachelor degree in a health science field or other related area;
   OR
3. submit such other evidence of general and professional qualifications and experience as will satisfy the Faculty that the applicant possesses the educational preparation and capacity to pursue independent research, and satisfy such additional requirements for admission to the program, if any, as may be prescribed by the Faculty;
   AND
4. have completed at least two years full-time work in their professional field;
   AND
5. have completed a minimum of one year's full-time experience in an educational role. Students with Honours level entry can apply for advanced standing in relevant research subjects. All qualifying requirements must be completed before enrolment in this Masters course.

Note: Applicants with a bachelor degree at pass level must demonstrate the necessary preparation in education and research including completion of studies in education normally to the level of graduate diploma. Applicants with a bachelor degree at honours level may be required to complete studies in education normally to the level of graduate diploma.

Course Outline
The Course Outline for the Master of Health Science Education by Research is presented in Table 8.7.

Subject Descriptions
08518 Research Seminar
*Semester 1 and 2* 28 hours
This subject is designed to orient students to study by research and to give formal structure to support the development of a research proposal.

08519 Research Thesis
The successful submission of a research thesis is the ultimate objective of the course. This process will necessitate a collaborative endeavour between the student and the supervisor, and an advisory committee.

08553 Research Seminar II
*Semester 1 and 2* 28 hours
This subject is a continuation of Research Seminar I.

Research Electives
Electives are normally completed through the Faculty. Participants select from these in consultation with the course co-ordinator. Issues in Educational Research (08516) is required to be taken by all students. For research elective subject descriptions, see Appendix 1.
## Table 8.8  Graduate Diploma in Community Health

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### Notes

Electives: The following electives will be offered, subject to sufficient student numbers and staff availability. Each subject is 28 hours in duration. Electives from other courses in the University can be taken by students in consultation with the Community Health Co-ordinator and the appropriate School or Department.

Faculty Electives

- 08445 Women’s Health
- 08446 Aboriginal Health
- 08447 Migrant and Refugee Health
- 08449 Issues in Community Mental Health
- 08450 Occupational Health and Safety
- 08452 Drug and Alcohol Studies
- 08453 Health in the Developing World
- 08456 Legal and Ethical Issues in Community Health
- 08457 Community Nutrition
- 08483 Introduction to Gerontology
- 08488 Counselling Theory and Practice
- 08490 Community Development
Graduate Diploma in Community Health
This course provides general and specialist community health practitioners with a core of knowledge and skills appropriate to the effective practice of primary health care in a multi-disciplinary team setting. The course focuses on the health needs of special groups in society and provides training in community health theory and practice, applied research, administration and management, health promotion, epidemiology and elective subjects with special relevance to the occupational roles of participants.

Admission Requirements
1. have completed a bachelor degree in a relevant area of health sciences;
   OR
2. submit such other evidence of professional qualifications and/or experience as will satisfy the Faculty that the applicant possesses the educational preparation and capacity to pursue graduate studies, and satisfy such additional requirements for admission to the programme, as may be prescribed by the Faculty;
   AND
3. a minimum of 2 years work experience.

Course Outline
The Course Outlines for the Graduate Diploma in Community Health full-time and part-time modes are presented in Table 8.8.

Subject Descriptions
08440 Health Promotion
Semester 2-28 hours
This subject provides an introduction to the principles and processes of major approaches to health promotion.

08441 Programme Planning and Evaluation
Semester 1-28 hours
The aim of this subject is to examine factors and elements involved in the process of planning and evaluating community health programmes.

08444 Integrative Paper
Semester 2-56 hours
This subject integrates the course through a literature review of a specific aspect of community health.

08522 Introduction to Epidemiology and Biostatistics
Semester 1-28 hours
This subject introduces students to the principles on epidemiology and their application to community health problems.

08523 Australian Society and Health
Semester 1-28 hours
This subject examines the historical development on approaches to illness management and health promotion in Australia, with particular emphasis on the role of the State in policy-making, legislation and service delivery in health and health-related areas.

08524 Critical Appraisal
Semester 2-28 hours
This subject introduces students to identification, selection and development of research objectives or hypotheses, to the critical appraisal of published quantitative research on health-related topics and to the major population case studies in epidemiology.

08529 Management and Problem Solving
Semester 1-28 hours
This subject will develop appropriate skills in day-to-day administration and management within a multidisciplinary team setting.

Electives
Semester 28 hours
Semester 2-56 hours
Students will elect to study two elective subjects in the first year and one in the second year of their course work. Each elective is 28 hours in duration. The electives will be offered subject to sufficient numbers and staff availability. For elective subject descriptions, see Appendix 1.
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</tr>
<tr>
<td></td>
<td>Treatise</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Elective: The following subjects will be offered subject to sufficient student numbers and staff availability. Each elective is 28 hours duration. Electives from other courses in the University can be taken by students in consultation with the Community Health Co-ordinator and the appropriate School or Department. Faculty Electives:

08445 Women’s Health 08453 Health in the Developing World
08446 Aboriginal Health 08456 Legal & Ethical Issues in Community Health
08447 Migrant and Refugee Health 08457 Community Nutrition
08449 Issues in Community Mental Health 08483 Introduction to Gerontology
08450 Occupational Health and Safety 08488 Counselling Theory and Practice
08452 Drug and Alcohol Studies 08490 Community Development

Research Electives: Students will select with the aid of their supervisor an appropriate Research Elective from the following Faculty wide Masters Research Electives:

08501 Epidemiological Research 10503 Advanced Research Methods
08502 Evaluation Research 10504 Quantitative Research Methods
08503 History and Philosophy of Scientific Methodology 10505 Qualitative Research Methods
11501 Biological Measurement and Analysis
08560 Action Research
Master of Community Health
This course aims to provide advanced training in Community Health theory and practice as well as further training in research expertise. This course is designed to equip graduates to occupy senior professional positions in the field. The course requires two years of part-time study to complete the first stage which has similar content to the Graduate Diploma in Community Health with a research elective which is taken in Semester 2, Year 2. In addition, an extra year (part-time) is required to complete a masters treatise.

Full-time study takes \( \frac{1}{2} \) years with the first semester similar to the Graduate Diploma in Community Health.

Admission Requirements
1. have completed a bachelor degree in a relevant area of health sciences,
2. submit such other evidence of general and professional qualifications and/or experience as will satisfy the Faculty that the applicant possesses the educational preparation and capacity to pursue graduate studies, and satisfy such additional requirements for admission to the programme, if any, as may be prescribed by the Faculty;
3. have completed a minimum of 2 years work experience.

Course Outline
The Course Outline for the Master of Community Health is presented in Table 8.9.

Subject Descriptions
Subjects are similar to Graduate Diploma in Community Health. Please refer to the subject descriptions on page 8-33.

08525 Research Seminar I
Semester 2-28 hours
This subject is designed to provide a foundation for, and guidance throughout students' final project. In the first unit, students will study appropriate community health literature and develop an initial proposal for a project of relevance to their professional interest. The second unit will accompany the initiation of the project itself and is designed to assist the student during the implementation stage. The final unit will provide guidance in the integration and presentation of results.

08526 Research Seminar II
Semester 1-28 hours
This subject is a continuation of Research Seminar I (08525).

08527 Research Seminar III
Semester 1-28 hours (F/T)
Semester 2 - 28 hours (P/T)
This subject is a continuation of Research Seminar II (08526).

08528 Treatise
The general aim of this subject is to synthesise post-graduate learning into a final project relevant to some aspect of community health. The topic and approach having been refined through participation in the first unit of the Project Seminar, students now conduct and write up their project under the supervision of one or more members of the academic staff and in conjunction with ongoing units of the Masters Seminar.

Research Elective
Semester 2-42 hours
Students select one research elective (subject to sufficient student numbers) in consultation with the Course Co-ordinator. For research elective subject descriptions, see Appendix 1.
## Table 8.10  Master of Health Science (Community Health) by Research

<table>
<thead>
<tr>
<th>Course Code</th>
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<td>Full-time; 1 Year</td>
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<tr>
<td>0822</td>
<td>Part-time; 2 Years</td>
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### □ Full-time Mode

<table>
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<tr>
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<th>Course Code</th>
<th>Course Type</th>
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<th>Sem 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>08530</td>
<td>Research Thesis</td>
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<td>-</td>
</tr>
<tr>
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<td>08531</td>
<td>Research Seminar I</td>
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<td>Research Seminar II</td>
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### □ Part-time Mode

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<th>Course Type</th>
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<th>Sem 2</th>
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<tr>
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<td>08530</td>
<td>Research Thesis</td>
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<td>Research Seminar I</td>
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<table>
<thead>
<tr>
<th>Year 2</th>
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<th>Course Type</th>
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<th>Sem 2</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>08530</td>
<td>Research Thesis</td>
<td></td>
<td>-</td>
<td>-</td>
</tr>
<tr>
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<td>08532</td>
<td>Research Seminar II</td>
<td>28</td>
<td>14</td>
<td>14</td>
</tr>
</tbody>
</table>
Master of Health Science (Community Health) by Research

This course provides the opportunity for research in community health.

Admission Requirements

To qualify for admission to the Master degree by research in Community Health applicants must:

1. have completed a bachelor degree at Honours level in an area of relevance such as health, welfare, social, behavioural or biological sciences; OR
2. have completed a master degree in an area of relevance; OR
3. submit such other evidence of general and professional qualifications and experience as will satisfy the Faculty that the applicant possesses the educational preparation and capacity to pursue independent research, and satisfy such additional requirements for admission to the programme, if any, as may be prescribed by the Faculty.

Applicants without these qualifications may be able to enter through successful completion of a qualifying programme designed specifically for each individual applicant.

Course Outline

The course may be pursued full-time over two Semesters (minimum) or part-time over four Semesters (minimum). Students will participate in School of Community Health Masters Seminar Programmes. Participation in the Faculty-wide Master students seminar programme will provide additional support and guidance.

Depending on students' entry qualifications, students may choose, or be required to enrol in one or more of the specialist research methods subjects offered by the Faculty to all Master level students.

The course outline for the Master of Health Science (Community Health) by Research is presented in Table 8.10.

Subject Descriptions

08530 Research Thesis

A supervisor is appointed to assist the student in carrying out the research project following approval of the research proposal. Regular meetings are held with the supervisor.

08531 Research Seminar I

28 hours

The seminars are an integral part of the research thesis component, and are held concurrently with it. They provide opportunities, through discussion, for a better understanding of individual project aims, procedures and findings, and a deeper appreciation of the role of scientific enquiry in advancing knowledge.

08532 Research Seminar II

28 hours

This subject is a continuation of Research Seminar I.
### Table 8.11 Graduate Diploma in Gerontology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Mode of Offer</th>
<th>Year 1</th>
<th>Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>08455</td>
<td>Community Health Issues in Gerontology</td>
<td>28</td>
<td>56</td>
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<tr>
<td>08483</td>
<td>Introduction to Gerontology</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>08484</td>
<td>Methodological Issues in Gerontology</td>
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</tr>
<tr>
<td>08485</td>
<td>Institutional Issues in Gerontology</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>10454</td>
<td>Behavioural Aspects of Ageing</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>11502</td>
<td>Biological Aspects of Ageing</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>08469</td>
<td>Special Investigation</td>
<td>56</td>
<td>28</td>
</tr>
<tr>
<td>08474</td>
<td>Programme Planning and Evaluation</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>08486</td>
<td>Options in Later Life</td>
<td>28</td>
<td>28</td>
</tr>
</tbody>
</table>

**Part-time Mode**

**Notes**

1. Part-time students will elect to study a total of two electives, one in each Semester. Each elective is 28 hours duration. The electives offered may vary according to staff availability and student demand. With the approval of the Head of School, students may also choose appropriate electives from subjects within other graduate courses. Electives include:
   - 08470 Mental Health in Later Life
   - 08476 Law, Ethics and the Rights of Older People
   - 08488 Counselling Theory and Practice
   - 10452 Multicultural Issues in Gerontology
   - 11433 Health, Dysfunction and Ageing

2. Full-time students will elect to study a total of two electives • either one in each Semester, or two in a single Semester. Each elective is 28 hours duration.
Graduate Diploma in Gerontology
This course provides for the development of knowledge and skills relevant to professional practice in the area of gerontology. Graduates will be equipped for employment in a wide range of work settings which require an understanding of the ageing process and of age related issues and services.

Admission Requirements
Applicants must have completed a professional diploma or degree course or satisfy the Faculty that they possess some other form of relevant qualification or work experience.

Course Outline
The Course Outline for the Graduate Diploma in Gerontology is presented in Table 8.11.

Subject Descriptions

08455 Community Health Issues in Gerontology
Semester 2-28 hours
This subject examines factors affecting the health and well-being of older people in the community, including the provision of supportive services.

08469 Special Investigation
Semester 1-28 hours
Semester 2-28 hours
This subject aims to give students the opportunity to develop the skills required for an independent investigation in an area of relevance to their professional interests. This may take any one of several forms, depending on the nature of the inquiry. Examples include: advanced literature analysis and critical review; small research project; programme development and/or evaluation.

08474 Programme Planning and Evaluation
Semester 1-28 hours
The aim of this subject is to examine the process of planning, evaluating and improving programmes for older people. The content will focus on consumer participation and teamwork in all stages of this process. Students will gain experience in using a variety of planning and evaluation strategies (e.g., problem solving).

08483 Introduction to Gerontology
Semester 1-28 hours
This subject aims to provide students with an understanding of gerontology as a unique matrix of disciplines and perspectives focused on the interaction of individual and social processes of ageing and on the dynamics of ageing populations. It demonstrates the need for integration of various academic disciplines and professional applications in the study of ageing and older people.

08484 Methodological Issues in Gerontology
Semester 2-28 hours
This subject aims to develop a critical approach to methodological issues involved in the study of ageing and older people, to enable students to critically appraise the design of published research reports (including statistical and non-statistical aspects) and to provide a knowledge base upon which to develop an appropriate project for the subject Special Investigation.

08485 Institutional Issues in Gerontology
Semester 2-28 hours
The aim of this multidisciplinary subject is to examine the socio-political context of institutional accommodation for older people and the institutional environment itself from the perspective of the residents’ experience of well-being.

08486 Options in Later Life
Semester 2-28 hours
The aim of this multidisciplinary subject is to provide students with a broad understanding of factors which can promote physical, mental and emotional well-being among retired people, the variety of constraints (physical, economic, social and cultural) which may limit older people’s participation in health activities, and resources and strategies for maximising their options. In addition, students will have the opportunity for appropriate specialisation in an area of professional relevance.

10454 Behavioural Aspects of Ageing
Semester 1-28 hours
Cognitive, perceptual, sensory, motor and personality development in later life will be studied in relation to social theories of ageing and typical life events of older people.

11502 Biological Aspects of Ageing
Semester 1-28 hours
This subject studies human ageing from biological perspectives. The emphasis is on understanding the main features of 'normal' ageing or senescence as distinct from disease processes and the contribution of environmental factors to ageing.

Electives
Semester 1-28 hours
Semester 2-28 hours
Students will elect to study a total of two elective units, one in each Semester. Each unit is 28 hours duration. The electives offered may vary according to staff availability and student demand. For elective subject descriptions, see Appendix 1.
### Table 8.12 Master of Gerontology

#### Part-time Mode

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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#### Full-time Mode

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<td>08495</td>
<td>Professional Development</td>
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Notes

1 Electives: Students will elect to study a total of two elective units. Each unit is 28 hours duration. Two units may be taken in one Semester, or one unit in two Semesters. The electives offered may vary according to staff availability and student demand. With the approval of the School, students may also choose appropriate electives from subjects within other graduate courses. Electives include:

- 08470 Mental Health in Later Life
- 08476 Law, Ethics and the Rights of Older People
- 08488 Counselling Theory and Practice
- 10452 Multicultural Issues in Gerontology
- 11433 Health, Dysfunction and Ageing of Older People

2 Research Elective: Students select one of the following subjects (subject to sufficient student numbers and staff availability) in consultation with the Course Co-ordinator. Research Electives include:

- 08501 Epidemiological Research
- 08502 Evaluation Research
- 08503 History and Philosophy of Scientific Methodology
- 08504 Quantitative Research Methods
- 08505 Qualitative Research Methods
- 08560 Action Research
- 10503 Advanced Research Methods
- 10504 Quantitative Research Methods
- 10505 Qualitative Research Methods
- 11501 Biological Measurement & Analysis

Full-time students may choose to undertake this subject in Year 2.
Master of Gerontology
This course provides advanced training in gerontological theory and practice. It is designed to equip graduates with in-depth understanding of ageing and age-related issues. Graduates will be equipped to occupy senior positions in a variety of planning, service delivery, educational and other settings.

The course is offered as a part-time programme, normally over three years, or full-time over 18 months.

Admission Requirements
1. A Bachelor degree in an area of occupational relevance such as the health, welfare, social or biological sciences, OR
2. Overseas qualifications acceptable to the Faculty, OR
3. Other general and professional qualifications and/or experience as will satisfy the Faculty that the applicant possesses the educational preparation and capacity to pursue graduate studies, and satisfy such additional requirements for admission to the programmes may be prescribed by Faculty.

Course Outline
The Course Outline for the Master of Gerontology is presented in Table 8.12.

Subject Descriptions
Some subjects are common to the Graduate Diploma in Gerontology. Please refer to subject descriptions on page 8-41.

084A1 Treatise Preparation
The overall aim of this subject and final Treatise (08494) is to synthesise postgraduate learning through an original investigation in an area of professional relevance. Treatise Preparation is designed to equip students with necessary tools and formal structures to support the development of a research proposal.

08494 Treatise
This subject is a continuation of Treatise Preparation (084A1) and will lead to a final Treatise.

08495 Professional Development
Semester 1-28 hours
Semester 2-28 hours
The aim of this subject is to provide students with a forum whereby current issues in gerontology may be discussed from the perspective of their own profession.

Research Elective
Semester 1 or 2-42 hours
Students select a subject (subject to sufficient student numbers) in consultation with the Course Coordinator. For research elective subject descriptions, see Appendix 1.
### Table 8.13  Master of Health Science (Gerontology) by Research

<table>
<thead>
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<th>Course Code</th>
<th>Mode of Offer</th>
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### Full-time Mode

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<tr>
<td>08543</td>
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</table>

### Part-time Mode
Master of Health Science (Gerontology) by Research

This course provides the opportunity for research in gerontology.

Admission Requirements

To qualify for admission to the Master degree by research in Gerontology applicants must:

1. have completed a bachelor degree at Honours level in an area of relevance such as health, welfare, social, behavioural or biological sciences; OR
2. have completed a master degree in an area of relevance; OR
3. submit other such evidence of general and professional qualifications and experience as will satisfy the Faculty that the applicant possesses the educational preparation and capacity to pursue independent research, and satisfy such additional requirements for admission to the programme, if any, as may be prescribed by the Academic Board.

Course Outline

The course may be pursued full-time over two Semesters (minimum) or part-time over four Semesters (minimum). Students will participate in School of Community Health Masters Seminar programs. Participation in the Faculty-wide Master students seminar programme will provide additional support and guidance.

Depending on students’ entry qualifications, students may choose, or be required to enrol in one or more of the specialist research methods subjects offered by the Faculty to all Master level students. The course outline for the Master of Health Science (Gerontology) by Research is presented in Table 8.13.

Subject Descriptions

08900 Special Programme - School of Community Health

Special Programmes are devised to meet individual needs. They are not subjects in the normal sense and do not necessarily involve a common syllabus.

08541 Research Thesis

A supervisor is appointed to assist the student in carrying out the research project following approval of the research proposal. Regular meetings are held with the supervisor.

08542 Research Seminar I

Semester 1-28 hours (f/t)
Semester 1-14 hours (p/t)
Semester 2-14 hours (p/t)

The seminars are an integral part of the research thesis component, and are held concurrently with it. They provide opportunities, through discussion, for a better understanding of individual project aims, procedures and findings, and a deeper appreciation of the role of scientific enquiry in advancing knowledge.

08543 Research Seminar II

Semester 2-28 hours (f/t)
Semester 1-14 hours (p/t)
Semester 2-14 hours (p/t)

This subject is a continuation of Research Seminar I.
### Graduate Diploma in Rehabilitation Counselling

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Mode of Offer</th>
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<th>Sem 2</th>
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<tr>
<td>08407</td>
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<td>Full-time; 1 Year</td>
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<td>42</td>
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<td>08409</td>
<td>Rehabilitation</td>
<td>Part-time; 2 Years (no commencing students 1995)</td>
<td>126</td>
<td>84</td>
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<tr>
<td>08411</td>
<td>Independent Study</td>
<td>Off-Campus; 2 Years</td>
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<td>08415</td>
<td>Vocational Rehabilitation</td>
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<td>08416</td>
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#### Part-time Off-Campus Mode

<table>
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<td>08415</td>
<td>Vocational Rehabilitation</td>
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<td>75</td>
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</tr>
</tbody>
</table>

#### Notes

1. Includes two five (5) week (175 hour) block placements at separate agencies, complemented by pre-placement tutorials. The first placement will be undertaken in the inter-Semester recess.
2. For students enrolled in second year only.
3. May be completed in either Semester or during inter-Semester break.
Graduate Diploma in Rehabilitation Counselling
This course can be completed on a one-year full-time basis or over two years part-time or over two years off-campus mode.

Admission Requirements
1. Completion of a bachelor degree or a diploma including three years cumulative study in psychology or equivalent, OR
2. Appropriate training and experience in one of the applied health professions. (Students entering on the basis of their qualifications in an allied health profession may be required to undertake some preliminary supplementary studies).
AND
3. It is desirable that applicants have had experience of at least one year in some aspect of rehabilitation, either in work or on a voluntary basis.

Course Outline
The Course Outline for the Graduate Diploma in Rehabilitation Counselling is presented in Table 8.14.

Subject Descriptions
08407 Counselling
Semester 1-42 hours
Semester 2-42 hours
In the first Semester, this intensive subject introduces theories and procedures utilised within the assessment process as it relates to rehabilitation counselling, provides practice covering the basic microskills involved in the initial assessment interview. The aim is the development of the understanding necessary to conceptualise a client's needs and to formulate appropriate goals for counselling. Semester two introduces students' to the theory and practice of the interpersonal process approach to counselling. The aim is the development of both theoretical and applied understandings of this most basic of counselling skills

08409 Rehabilitation
Semester 1-84 hours
Semester 2-42 hours
This subject is intended to integrate various areas of the rehabilitation process and its implication other than those covered in Vocational Rehabilitation (08415). There are five units: Introduction to Rehabilitation Theory and Practice; Legal Aspects of Rehabilitation; Psychosocial Aspects of Disability; Rehabilitation Administration and Evaluation; Case and Caseload Management.

08411 Independent Study
In Semester 2, students undertake an independent study devoted to a specific area of handicap or disadvantage. Alternatively, they may elect a study devoted to the administration and/or evaluation of an agency program, or investigate a current rehabilitation issue.

08415 Vocational Rehabilitation
Semester 1-75 hours
Semester 2-65 hours
This subject comprises three units. The first is concerned with the psychosocial foundations of work. The second looks at the vocational development process, the effect disability has on this process and the way in which counsellors and other rehabilitation professions go about assessing the degree of handicap and the vocational/avocational options available. The final unit looks in detail at the placement and resettlement aspects of rehabilitation and the methods/techniques used to work with clients and employers to secure a return to the workforce.

08416 Rehabilitation of Special Groups
Semester 1-56 hours
Semester 2-56 hours
The subject introduces students to the rehabilitation needs and range of services provided for the physically disabled, psychiatric clients, those who abuse drugs and alcohol, public offenders, the intellectually handicapped, migrants, the elderly, traumatically brain injured, people with HTV/Aids, and the sensory impaired.

08417 Field Experience

08418 Field Experience A#

08419 Field Experience B#
385 hours*
Students are assigned selected cases in rehabilitation agencies and are required to carry out a range of tasks appropriate to a rehabilitation counsellor, with supervision from a qualified professional.

* Includes 5-week block in inter-Semester break.
# Total of 192 hours which may be completed in either Semesters or inter-Semester break by part-time students.
### Table 8.15  Master of Rehabilitation Counselling (by Coursework)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Mode of Offer</th>
</tr>
</thead>
<tbody>
<tr>
<td>0823</td>
<td>Full-time; 1 1/2 Years (3 Semesters)</td>
</tr>
<tr>
<td>0824</td>
<td>Part-time; 3 Years (6 Semesters) (no commencing students 1995)</td>
</tr>
<tr>
<td>0854</td>
<td>Off-Campus; 3 Years (6 Semesters)</td>
</tr>
</tbody>
</table>

#### Full-time Mode

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Total</th>
<th>Sem 1</th>
<th>Sem 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>08407</td>
<td>Counselling</td>
<td>84</td>
<td>42</td>
</tr>
<tr>
<td>08409</td>
<td>Rehabilitation</td>
<td>126</td>
<td>84</td>
</tr>
<tr>
<td>08415</td>
<td>Vocational Rehabilitation</td>
<td>140</td>
<td>75</td>
</tr>
<tr>
<td>08416</td>
<td>Rehabilitation of Special Groups</td>
<td>112</td>
<td>56</td>
</tr>
<tr>
<td>08417</td>
<td>Field Experience</td>
<td>385¹</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td>Research Elective</td>
<td>422</td>
<td>-</td>
</tr>
</tbody>
</table>

| Year 2 (Semester 1) | 08540 | Treatise | - | - | - |

#### Part-time Off-Campus Mode

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Total</th>
<th>Sem 1</th>
<th>Sem 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>08409</td>
<td>Rehabilitation</td>
<td>126</td>
<td>84</td>
</tr>
<tr>
<td>08416</td>
<td>Rehabilitation of Special Groups</td>
<td>112</td>
<td>56</td>
</tr>
<tr>
<td>08419</td>
<td>Field Experience B</td>
<td>192³</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Research Elective</td>
<td>42*</td>
<td>-</td>
</tr>
</tbody>
</table>

| Year 2 (offered in 1996) | 08407  | Counselling    | 84    | 42    | 42    |
|                          | 08415  | Vocational Rehabilitation | 140  | 75    | 65    |
|                          | 08418  | Field Experience A | 192³ | -    | 192   | -     |

<table>
<thead>
<tr>
<th>Year 3</th>
<th>Total</th>
<th>Sem 1</th>
<th>Sem 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>08540</td>
<td>Treatise</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

#### Notes

1. Includes two 5-week (175 hours) block placements, at separate agencies, complemented by pre-placement tutorials. The first placement will be undertaken in the inter-Semester recess.

2. Research Elective: Students select one of the following subjects in consultation with the course co-ordinator. These subjects are each 42 hours duration and can be taken in either Semester 1 or Semester 2.

   - 08501 Epidemiological Research
   - 08502 Evaluation Research
   - 08503 History and Philosophy of Scientific Methodology
   - 10503 Advanced Research Methods
   - 10504 Quantitative Research Methods
   - 10505 Qualitative Research Methods
   - 11501 Biological Measurement and Analysis

3. May be completed in either Semester or during inter-Semester break.

4. For students enrolled in second year only.
Master of Rehabilitation Counselling
(by Coursework)
This course can be completed on a 3 Semester full-time
basis or over 6 Semesters part-time, or over 6 Semesters
off-campus.

Admission Requirements
To qualify for admission to the Master degree by
coursework in rehabilitation counselling applicants
must:

1. have completed a bachelor degree in an
   appropriate area other than rehabilitation
counselling;
   OR
2. submit such other evidence of general and
   professional qualifications and experience as will
   satisfy the Academic Board that the applicant
   possesses the educational preparation and capacity
to undertake the coursework and treatise
   requirements, and satisfy such additional
   requirements for admission to the program, if
   any, as may be prescribed by the Academic Board.
3. It is desirable that applicants have had experience
   of at least one year in some aspect of rehabilitation,
   either in work or on a voluntary basis.

Course Outline
The Course Outline for the Master of Rehabilitation
Counselling is presented in Table 8.15.

Subject Descriptions

08407 Counselling
Semester 1-42 hours
Semester 2-42 hours
This subject covers the main theoretical positions:
namely, humanistic, behaviouristic and
psychodynamic. Practical activities are devoted to
helping relationship skills, influencing skills, group
counselling and behavioural techniques.

08409 Rehabilitation
Semester 1-84 hours
Semester 2-42 hours
This subject is intended to integrate various areas of
the rehabilitation process and its implication other
than those covered in Vocational Rehabilitation
(08415). There are five units: Introduction to
Rehabilitation Theory and Practice; Legal Aspects of
Rehabilitation; Psychosocial Aspects of Disability;
Rehabilitation Administration and Evaluation; and
Case and Caseload Management.

08415 Vocational Rehabilitation
Semester 1-75 hours
Semester 2-65 hours
This subject comprises three units. The first is
concerned with the psychosocial foundations of work.
The second looks at the vocational development
process, the effect disability has on this process and
the way in which counsellors and other rehabilitation
professionals go about assessing the degree of
handicap and the vocational/avocational options
available. The final unit looks in detail at the placement
and resettlement aspects of rehabilitation and the
methods/techniques used to work with clients and
employers to secure a return to the workforce.

08416 Rehabilitation of Special Groups
Semester 1-56 hours
Semester 2-56 hours
The subject introduces students to the rehabilitation
needs and range of services provided for the physically
disabled, psychiatric clients, those who abuse drugs
and alcohol, public offenders, the intellectually
handicapped, migrants, the elderly, the traumatically
brain injured, people with HIV/AIDS, and the sensory
impaired.

08417 Field Experience*

08418 Field Experience*

08419 Field Experience*
385 hours
Students are assigned selected cases in rehabilitation
agencies and are required to carry out a range of tasks
appropriate to a rehabilitation counsellor, with
supervision from a qualified professional.

08540 Treatise
The treatise requires the completion of a paper which
aims to synthesise post-graduate knowledge and skills
through an original investigation of an area of
professional relevance.

Research Elective
Semesters 1 or 2 - 42 hours
Students select a research elective (subject to sufficient
student numbers) in consultation with their supervisor.

* Includes a 5-week block in inter-Semester break in the full-
time program.
# Total of 192 hours which may be completed in either Semester
or inter-Semester break by part-time students.
Table 8.16  Master of Health Science (Rehabilitation Counselling)

For students who commenced prior to 1992.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course</th>
<th>Mode of Offer</th>
</tr>
</thead>
<tbody>
<tr>
<td>0816</td>
<td>Special Programme - School of Community Health</td>
<td>Part-time; 4 Years</td>
</tr>
</tbody>
</table>

For students commencing in 1992 or later.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course</th>
<th>Mode of Offer</th>
</tr>
</thead>
<tbody>
<tr>
<td>0848</td>
<td>Full-time; minimum 2 Years</td>
<td></td>
</tr>
<tr>
<td>0849</td>
<td>Part-time; minimum 4 Years</td>
<td></td>
</tr>
</tbody>
</table>

For students who commenced prior to 1992.

- **Part-time Mode**

<table>
<thead>
<tr>
<th>Year 3</th>
<th>Total Hours</th>
<th>Sem 1</th>
<th>Sem 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>08422 Research Thesis</td>
<td>28</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>08423 Research Thesis Seminar I</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4</th>
<th>Total Hours</th>
<th>Sem 1</th>
<th>Sem 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>08422 Research Thesis</td>
<td>28</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>08424 Research Thesis Seminar II</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For students commencing in 1992 or later.

- **Full-time Mode**

All students undertake the following subjects:

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Total Hours</th>
<th>Sem 1</th>
<th>Sem 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>08420 Advanced Professional Studies I²</td>
<td>56</td>
<td>56</td>
<td></td>
</tr>
<tr>
<td>08544 Thesis Workshop I</td>
<td>56</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>08544 Research Elective¹</td>
<td>42</td>
<td>42</td>
<td>or 42</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Total Hours</th>
<th>Sem 1</th>
<th>Sem 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>08421 Advanced Professional Studies IP</td>
<td>56</td>
<td>56</td>
<td></td>
</tr>
<tr>
<td>08422 Research Thesis</td>
<td>56</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>08545 Thesis Workshop II</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3 and subsequent years</th>
<th>Total Hours</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>08422 Research Thesis</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Part-time Mode

All students will undertake the following subjects:

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Total Hours</th>
<th>Sem 1</th>
<th>Sem 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>08420 Advanced Professional Studies I²</td>
<td>56</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>08546 Thesis Workshop IA</td>
<td>28</td>
<td>14</td>
<td>14</td>
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<tr>
<td>Research Elective¹</td>
<td>42</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 2</th>
<th>Total Hours</th>
<th>Sem 1</th>
<th>Sem 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>08421 Advanced Professional Studies IF</td>
<td>56</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>08547 Thesis Workshop IB</td>
<td>28</td>
<td>14</td>
<td>14</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 3</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>08422 Research Thesis</td>
<td>28</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>08548 Thesis Workshop HA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 4</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>08422 Research Thesis</td>
<td>28</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>08549 Thesis Workshop IIB</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 5 (and subsequent years)</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>08422 Research Thesis</td>
<td>_</td>
<td>_</td>
<td>_</td>
</tr>
</tbody>
</table>

Notes

¹ Research Elective: Students select a maximum of two of the following subjects (subject to sufficient student numbers) in consultation with their supervisor:

- 08501 Epidemiological Research
- 08502 Evaluation Research
- 08503 History and Philosophy of Scientific Methodology
- 10503 Advanced Research Methods
- 10504 Quantitative Research Methods
- 10505 Qualitative Research Methods
- 11501 Biological Measurement and Analysis

² In consultation with their thesis supervisor, students will elect to undertake studies considered relevant to their topic.
Master of Health Science
(Rehabilitation Counselling)
This course provides the opportunity for research in the areas of rehabilitation, rehabilitation counselling, rehabilitation administration, and the management of rehabilitation resources. The purpose of the coursework is to assist the student to identify a research topic and develop research questions concerning that topic.

Admission Requirements
1. Graduate Diploma of Health Science (Rehabilitation Counselling); OR
2. Associate Diploma of Health Science (Rehabilitation Counselling) plus a bachelor's degree with a major in psychology or other behavioural science subject; OR
3. General and professional qualifications as will satisfy the Faculty that the applicant possesses the educational preparation and capacity to pursue graduate studies.

In addition, the applicant shall satisfy such additional requirements for admission to the programme, if any, as may be prescribed by the Faculty. The applicant shall normally have had a minimum of one year of full-time relevant work experience in a rehabilitation setting.

Course Outline
The course outline for the Master of Health Science (Rehabilitation Counselling) is presented in Table 8.16.

Subject Descriptions

08900 Special Programme - School of Community Health
Special Programmes are devised to meet individual needs. They are not subjects in the normal sense and do not necessarily involve a common syllabus.

08420 Advanced Professional Studies I
Semester 1-56 hours
Current approaches to rehabilitation in the provision of health and welfare services are critically appraised in terms of their adequacy for meeting the demands of consumers. Future trends are also considered and their implications for service providers and consumers are examined. Two strands are Current Issues and Future Perspectives; and Rehabilitation Administration.

08421 Advanced Professional Studies II
Semester 2-56 hours
Conceptual models and research findings are examined in the area of rehabilitation counselling with particular emphasis on how well theory and technique translate into the systematic application of counselling procedures to the process of rehabilitation appropriate to the individual client's needs. The two compulsory units are:

- Contemporary counselling theories and practices
- Rehabilitation client assessment and evaluation

Students also select two (2) units from:

- Rehabilitation counsellor training, professional development and supervision
- Advances in vocational psychology applied to rehabilitation counselling
- Impact of disability
- Independent living counselling

08422 Research Thesis
Each student is required to submit a research proposal by the end of the second Semester of the full-time programme, or an equivalent time for part-time students. Students are allowed to proceed with the thesis only when the assessment requirements of the coursework for Year 1 of the full-time programme have been met.

A supervisor is appointed to assist the student in carrying out the research project following approval of the research proposal. Regular meetings are held with the supervisor.
08423  Research Thesis Seminar I

08544  Thesis Workshop I

08546  Thesis Workshop IA

08547  Thesis Workshop IB
These subjects are an integral part of the research thesis component, and are held concurrently with it. They provide opportunities, through discussion, for a better understanding of individual project aims, procedures and findings, and a deeper appreciation of the role of scientific enquiry in advancing knowledge.

08424  Research Thesis Seminar II

08545  Thesis Workshop II

08548  Thesis Workshop HA

08549  Thesis Workshop IIB
These subjects are a continuation of the above subjects.

Research Elective
Semester 1-42 hours
Semester 2-42 hours
Students select two research electives (subject to sufficient student numbers) in consultation with their supervisors.
Table 8.17 Aboriginal Health Science Support Programme

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Total Hours</th>
<th>Sem 1</th>
<th>Sem 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>08157</td>
<td>Anatomy Support (A)</td>
<td>52&lt;sup&gt;1&lt;/sup&gt;</td>
<td>52&lt;sup&gt;1&lt;/sup&gt;</td>
<td>-</td>
</tr>
<tr>
<td>08158</td>
<td>Anatomy Support (B)</td>
<td>28</td>
<td>-</td>
<td>28</td>
</tr>
<tr>
<td>08159</td>
<td>Biological Sciences Orientation</td>
<td>28</td>
<td>-</td>
<td>28</td>
</tr>
<tr>
<td>08160</td>
<td>Biological Sciences Support (A)</td>
<td>56</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>08161</td>
<td>Biological Sciences Support (B)</td>
<td>28&lt;sup&gt;3&lt;/sup&gt;</td>
<td>28&lt;sup&gt;3&lt;/sup&gt;</td>
<td>-</td>
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<tr>
<td>08162</td>
<td>Physics Support</td>
<td>80&lt;sup&gt;1&lt;/sup&gt;</td>
<td>52&lt;sup&gt;1&lt;/sup&gt;</td>
<td>28</td>
</tr>
<tr>
<td>08163</td>
<td>Research Methods Support (I)</td>
<td>28&lt;sup&gt;3&lt;/sup&gt;</td>
<td>28&lt;sup&gt;3&lt;/sup&gt;</td>
<td>-</td>
</tr>
<tr>
<td>08151</td>
<td>Aboriginal Studies</td>
<td>14&lt;sup&gt;3&lt;/sup&gt;</td>
<td>14&lt;sup&gt;3&lt;/sup&gt;</td>
<td>-</td>
</tr>
<tr>
<td>08149</td>
<td>Study Skills</td>
<td>52&lt;sup&gt;1&lt;/sup&gt;</td>
<td>38&lt;sup&gt;1&lt;/sup&gt;</td>
<td>14</td>
</tr>
<tr>
<td>08164</td>
<td>Professional Studies Support (IA)</td>
<td>14&lt;sup&gt;3&lt;/sup&gt;</td>
<td>14&lt;sup&gt;3&lt;/sup&gt;</td>
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<tr>
<td>08165</td>
<td>Professional Studies Support (IB)</td>
<td>28</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>08166</td>
<td>Biomechanics Support (1)</td>
<td>20&lt;sup&gt;2,3&lt;/sup&gt;</td>
<td>20&lt;sup&gt;2,3&lt;/sup&gt;</td>
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<td>08167</td>
<td>Neurobiology Support</td>
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<tr>
<td>08168</td>
<td>Behavioural Sciences Support (A)</td>
<td>28&lt;sup&gt;3&lt;/sup&gt;</td>
<td>28&lt;sup&gt;3&lt;/sup&gt;</td>
<td>-</td>
</tr>
<tr>
<td>08169</td>
<td>Behavioural Sciences Support (B)</td>
<td>56</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>08170</td>
<td>Mathematics Orientation</td>
<td>14</td>
<td>-</td>
<td>14</td>
</tr>
<tr>
<td>08171</td>
<td>Mathematics Support(A)</td>
<td>14&lt;sup&gt;3&lt;/sup&gt;</td>
<td>14&lt;sup&gt;3&lt;/sup&gt;</td>
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<tr>
<td>08172</td>
<td>Mathematics Support(B)</td>
<td>28</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>08255</td>
<td>Biomechanics Support (2)</td>
<td>28&lt;sup&gt;3&lt;/sup&gt;</td>
<td>28&lt;sup&gt;3&lt;/sup&gt;</td>
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<tr>
<td>08256</td>
<td>Professional Studies Support (2)</td>
<td>28</td>
<td>14</td>
<td>14</td>
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<tr>
<td>08257</td>
<td>Research Methods Support (2A)</td>
<td>28&lt;sup&gt;3&lt;/sup&gt;</td>
<td>28&lt;sup&gt;3&lt;/sup&gt;</td>
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<tr>
<td>08258</td>
<td>Research Methods Support (2B)</td>
<td>56</td>
<td>28</td>
<td>28</td>
</tr>
</tbody>
</table>

Notes:
1. includes 24 hours prior to start of academic year
2. includes 6 hours prior to start of academic year
3. offered first or second Semester

(Average student hours: 6-8 hours per week over first two years) (1-4 hours per week over third year)
Aboriginal Health Science Support Programme

Students in the Aboriginal Health Science Support Programme undertake a selection of the following Support Programme subjects, based on an individual needs assessment conducted by the Aboriginal Education Unit, and depending on the students' course and course load. The average number of hours in the Support Programme is six to eight hours per week for the first two years of enrolment and one to four hours in their third year.

Admission Requirements

Admission to the Aboriginal Health Science Support Programme is dependent upon satisfying the eligibility criteria under the Cadigal Policy (see Chapter 3). Selection of students under this Policy may be based on an interview. All students who are offered a place in an award course under the Cadigal Policy will participate in the Aboriginal Health Science Support Programme during the first three years of enrolment.

Course Outline

The course outline for the Aboriginal Health Science Support Programme is presented in Table 8.17.

Subject Descriptions

Years 1 and 2

08157 Anatomy Support (A)
Semester 1-52 hours
This subject commences two weeks prior to the start of the academic year. It begins by introducing students to the principles of studying anatomy and orienting them to the anatomy laboratories. The subject continues to be offered concurrently with the anatomy component of the student's course and provides the opportunity for students to revise and consolidate concepts covered in that component of their course.

08158 Anatomy Support (B)
Semester 2-28 hours
The subject is concurrently with the anatomy component of the student's course and provides the opportunity for students to revise and consolidate concepts covered in that component of their course.

08159 Biological Sciences Orientation
Semester 2-28 hours
The material covered in this subject depends on the course being undertaken by the student. The pre-course option is offered only in Semester 2, and aims to provide students with an understanding of the fundamental concepts of chemistry and physiology needed for successful participation in the human biology component of their course in the following year.

08160 Biological Sciences Support (A)
Semester 1-28 hours
Semester 2-28 hours
AND

08161 Biological Sciences Support (B)
Semester 1 or 2-28 hours
These concurrent subjects provide students with an opportunity to revise and consolidate content covered in human biology/physiology subjects. Both group and individual tuition is provided.

08162 Physics Support
Semester 1-52 hours
Semester 2-28 hours
The subject is designed for students enrolled in Medical Radiation Technology who may not have a strong background in physics. It aims at both preparing students for study in physics-related subjects, and the opportunity to revise and consolidate concepts covered in the physics component of their course. It also covers the mathematical concepts required.

08163 Research Methods Support (1)
Semester 1 or 2-28 hours
This subject aims to provide students with the opportunity to further understand and use experimental and descriptive research methods.

08151 Aboriginal Studies
Semester 1 or 2-14 hours
This subject examines the historical, social, economic and political factors relevant to Aboriginal people today, particularly in relation to health. The meaning of Aboriginality in contemporary society is explored, together with issues of Aboriginal identity.

08149 Study Skills
Semester 1-38 hours
Semester 2-14 hours
This subject introduces students to the skills needed for successful tertiary study, particularly related to health science courses. Topics covered include time management, research skills, exam preparation skills and writing skills.

08164 Professional Studies Support (1A)
Semester 1 or 2-14 hours
AND

08165 Professional Studies Support (1B)
Semester 1-14 hours
Semester 2-14 hours
These subjects support one or more of the professional subjects a student may be having difficulty with. It is based on individual student need.
08166 Biomechanics Support (1)
Semester 1 or 2 - 20 hours
This subject aims to provide an introduction to the fundamental principles of biomechanics as well as provide students in the first year of their degree course with the opportunity to consolidate and revise material covered in the biomechanics component of their course.

08167 Neurobiology Support
Semester 1 or 2 - 28 hours
This subject aims to introduce students to the fundamental concepts of neurobiology and to provide students with an opportunity to revise and consolidate content covered in the neurobiology component of their course.

08168 Behavioural Sciences Support (A)
Semester 1 or 2 - 28 hours
AND
08169 Behavioural Sciences Support (B)
Semester 1-28 hours
Semester 2-28 hours
These subject aims to introduce students to the fundamental concepts of behavioural sciences and to provide students with an opportunity to revise and consolidate content covered in the behavioural sciences component of their course.

08170 Mathematics Orientation
Semester 2 -14 hours
This is offered only in Semester 2 and aims to provide students with the fundamental mathematical concepts being introduced to students in the Introduction to fundamentals of human biology course.

08171 Mathematics Support (A)
Semester 1 or 2 - 14 hours
AND
08172 Mathematics Support (B)
Semester 1-14 hours
Semester 2-14 hours
The material covered in these subject depends on the course being undertaken by the student. The aim of the subject is to provide students with an opportunity to revise and consolidate the mathematical concepts/content covered in the biomedical sciences subjects.

Year 3

08255 Biomechanics Support (2)
Semester 1 or 2 - 28 hours
This subject aims to provide students in the second year of their degree course with the opportunity to consolidate and revise material covered in the biomechanics component of their course.

08256 Professional Studies Support (2)
Semester 1-14 hours
Semester 2-14 hours
This subject supports one or more of the professional subjects a student may be having difficulty with. It is based on individual student need.

08257 Research Methods Support (2A)
Semester 1 or 2 - 28 hours
AND
08258 Research Methods Support (2B)
Semester 1-28 hours
Semester 2-28 hours
These subject aims to provide students with the opportunity to further understand and use experimental and descriptive research methods.
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<tr>
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<td>08174</td>
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<tr>
<td>08140</td>
<td>Aboriginal Studies</td>
<td>28(^i)</td>
<td>28(^j)</td>
<td>-</td>
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<tr>
<td>08139</td>
<td>Study Skills Workshop</td>
<td>42(^i)</td>
<td>12(^j)</td>
<td>30</td>
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<tr>
<td>08175</td>
<td>Behavioural Science Workshop</td>
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<td>-</td>
<td>42</td>
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<tr>
<td>08138</td>
<td>Maths Workshop</td>
<td>42(^i)</td>
<td>12(^j)</td>
<td>30</td>
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</table>

**Notes**

\(^i\) These hours will be undertaken by Full Time Students in 2nd Semester.
Aboriginal Health Science Preparatory Programme

Admission Requirements
Admission to the Aboriginal Health Science Preparatory Programme is based on an assessment (including interview) conducted by the Aboriginal Education Unit. It is expected that students who do not meet the eligibility criteria under the Cadigal Policy, may apply for entry to the Preparatory Program. However it should be noted that successful completion of the Preparatory Programme does not guarantee a student a place in a degree course, but does provide them eligibility for selection under the Cadigal Policy. The Preparatory Programme is open to students with an HSC mark lower than that needed under the Aboriginal Special Admission Policy and mature age students over the age of 21.

Course Outline
The course outline for the Aboriginal Health Science Preparatory Programme is presented in Table 8.18.

Subject Descriptions

08173 Anatomy Workshop
**Semester 2**-28 hours
This subject introduces the student to the study of anatomy. It covers topics such as anatomical language, histology, musculo-skeletal system, as well as the anatomy of various body systems. Emphasis is placed on acquiring the skills needed to study anatomy successfully including laboratory skills and learning anatomical language.

08174 Human Biology Workshop
**Semester 2**-42 hours
This subject introduces the student to the study of human biology. It begins with an introduction to basic chemical concepts, and related mathematical concepts, such as scientific measurement and graphing. It moves on to cover important physiological concepts such as cell structure, metabolism, genetics and the physiology of various body systems. The subject has a large practical component aimed at teaching laboratory skills.

08140 Aboriginal Studies
**Semester 1** or **2**-28 hours
This subject aims to investigate a number of issues relevant to Aboriginal students considering participating in tertiary level education. The meaning of Aboriginality in contemporary society is explored, together with issues of Aboriginality.

08139 Study Skills Workshop
**Semester 1** or **2**-42 hours
This subject aims to assist students preparing for study at a tertiary institution. It investigates issues such as the culture and values of the tertiary institution; explores students' past educational background; and teaches study skills such as organisational strategies, research, reading and writing skills, and exam techniques. The subject includes both group and individual tuition.

08175 Behavioural Science Workshop
**Semester 2**-42 hours
This subject introduces the student to the study of behavioural science. It uses topics such as health as the basis for exploring contemporary sociological and psychological theories. Emphasis is placed on developing skills needed to study behavioural science successfully including field observation, presenting seminars and reading research reports.

08138 Maths Workshop
**Semester 1** or **2**-42 hours
This subject aims to teach the numeracy students may need in their chosen course. It takes into account individual student's past experience of learning maths, and deals with issues such as maths anxiety. It aims to teach numeracy in the context of students' culture and their aspirations for undertaking study in a particular award course. The subject includes both group and individual tuition.
Field Experience/Professional Practice
(Rehabilitation Counselling)

Field Experience is an essential component in the overall process of developing professional competence and identity as a Rehabilitation Counsellor. It not only provides students with an opportunity to apply, integrate, reinforce and assess theoretical learning, but also allows them to appreciate the way in which rehabilitation counsellors and other allied professionals contribute to the effectiveness of the rehabilitation process.

Field placements are provided in a wide variety of rehabilitation and related health, welfare, vocational and independent living services in both the public and private sectors.

The objectives of field experience are that the students be provided with opportunities to:

- develop competence and professional identity as rehabilitation counsellors
- integrate theory taught at the University with practice learnt in the field. Field experience provides the context where all segments of the coursework merge and gain meaning
- develop an understanding of the values and principles of rehabilitation counselling practice as applied in different fields/levels of application
- develop knowledge and skills in various rehabilitation counselling methods and related activities under the guidance, supervision and support of experienced practitioners in the service delivery environment
- develop confidence, independence and autonomy as practitioners.

These objectives are fulfilled by placement blocks of supervised field practice complemented by supporting seminars, tutorials and agency visits. At least one placement is to be supervised by a practising/qualified rehabilitation counsellor.

Graduate Diploma (Rehabilitation Counselling) and Masters (Rehabilitation Counselling) students are required to complete 385 hours. This includes two field placements at separate agencies, as per dates below.

Bachelor of Health Science (Rehabilitation Counselling)

All students are required to complete 600 hours of supervised field practice over the three year programme, in the subject Professional Practice. This includes block field placements to be undertaken in years 2 and 3 during the inter-Semester breaks.

Field placements are arranged by the Co-ordinator of Professional Practice who is responsible for the overall co-ordination, monitoring and supervision of the field practice program. As far as practicable, the students' areas of interest and career goals are given consideration in the planning of their field placements.

Assessment: a pass in this subject is dependent on assessment of each field placement on the basis of:

- agency supervisor's student evaluation
- a daily log or report on the field experience activities and impressions, including a case study
- satisfactory performance and attendance at the tutorials and agency visits/seminars component of the field experience program.

The Co-ordinator of Professional Practice can be contacted on Ext. 6573 or 6329.

1995 Field Placement Dates

Graduate Diploma and Master in Rehabilitation Counselling

Semester 1
19 June to 21 July
Semester 2
23 October to 24 November

Bachelor of Health Science (Rehabilitation Counselling)

Year 1
75 hours during Semester and inter-Semester periods.

Year 2
19 June to 28 July. 75 hours (inter-Semester break)

Note: Students will be expected to have completed the 105 hours of supervised field experience / agency work introduced in 1st year by the end of Semester 1, before commencement of this placement.

Year 3
19 June to 28 July (inter-Semester break)

Note: Some modifications to these schedules may be arranged to accommodate time constraints of students in the part-time programs.
The School of Health Information Management offers a Bachelor of Applied Science (Health Information Management), a Bachelor of Applied Science Honours (Health Information Management), a Graduate Diploma of Applied Science (Health Information Management) and a Master of Applied Science (Health Information Management). The courses are designed to develop medical record administrators and health information managers as key members of the health care team, responsible for the management of patient-related health information systems.

A medical record is a key instrument for recording information about the professional care given to a patient. In essence it is a document containing clinical findings and observations concerning a patient's medical, surgical and social problems, providing essential information for:

- adequate and continuing patient care
- medical and other health professional education
- clinical research
- casemix information systems (including Diagnosis Related Groups (DRGs))
- epidemiological studies and clinical trials
- quality assurance and peer review programmes, and
- utilisation review of hospital services.

A Medical Record Administrator is an information management professional concerned with the development, implementation, maintenance and administration of health information systems. These systems, both manual and automated, are designed for the capture, storage, analysis, retrieval, and release of information about health services.

The Health Information Management Association of Australia officially represents the medical record profession and promotes the continuing education of its members through regular seminars, workshops and conferences. All full-time Health Information Management students from the Faculty of Health Sciences are eligible for student membership to the Association and upon satisfactory completion of the Bachelor of Applied Science (Health Information Management) are eligible for full membership to the Association.
## Table 9.1 Bachelor of Applied Science (Health Information Management)

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Mode of Offer</th>
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### Year 1

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<td>09130</td>
<td>Health Information Systems II</td>
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<td>09131</td>
<td>Australian Health Care Systems</td>
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<td>09133</td>
<td>Medical Terminology I</td>
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<td>Medical Terminology II</td>
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<td>Health, Society and Social Change</td>
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### Year 3

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<td>09327</td>
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## Honours Programme - Additional Subjects

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**Year 4**

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<td>09433 Research Thesis</td>
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**Notes**

1. 3 Weeks Inter-semester placement (96 hours)
2. 4 Weeks Inter-semester placement (150 hours)
3. 2 Weeks Pre-semester 1 placement (75 hours)
4. 3 Weeks Inter-semester placement (105 hours)
5. Research Elective: Students select one of the following subjects (subject to sufficient student numbers) in consultation with their supervisors:
   - 08502 Evaluation Research
   - 08503 History and Philosophy of Scientific Methodology
   - 10504 Quantitative Research Methods
   - 10505 Qualitative Research Methods
Bachelor of Applied Science (Health Information Management)

The degree course in health information management has been designed to prepare specialists in the management of health information systems. The medical record administrator is required to analyse the information needs of a variety of users, and design, plan and implement systems to meet these needs. The increasing complexity of communication between health professionals demands an efficient and effective information system to support patient management. Increasing health costs make it essential for health planners to have the necessary information to organise a health care delivery system which optimises the use of resources.

The medical record provides the patient data base on which the health information system is built. The medical record contains data relating to the patient's clinical problems as well as sociological data. The record can provide information for health care evaluation, research, statistics and education. The patient benefits directly when his/her record is used for future patient care or to protect his/her legal interests.

Admission Requirements

There are no specific requisites for admission to the Bachelor of Applied Science (Health Information Management) course. Please refer to the General Admission Requirements in Chapter 3.

Course Outline

The Course Outlines for the Bachelor of Applied Science (Health Information Management) Pass and Honours courses are presented in Table 9.1.

Subject Descriptions

**Year 1**

**09117 Clinical Classification I**

*Semester 2-56 hours*

This subject introduces the student to the classification of diseases and procedures in medicine. It incorporates an overview of the historical development of clinical classification systems as well as the purpose and value of classification systems. The major emphasis is on a detailed study of the International Classification of Diseases, 9th Revision, Clinical Modification (ICD-9-CM). Other topics include disease and operation indexing, the NSW Health Department's Inpatient Statistics Collection and NSW Maternal and Perinatal Collection.

**09130 Health Information Systems II**

*Semester 2-42 hours*

*Pre-requisite: Health Information Systems I (09137)*

This subject builds onto Health Information Systems I with an integrated study of forms design and management, records used in special areas, such as community health, primary care and general practice, mental health and developmentally disabled records, rehabilitation and dental records, long term care, nursing homes and hospice records. The study of general record management is also included and covers procedures and task allocation, dataflow, numbering systems and storage, subject classification, thesauri development, indexing theory, computer-aided records management, disposal schedules, vital records and disaster recovery. Within this subject, students also study in depth, an individually selected professional topic with a review of the literature and the presentation of a seminar paper.

**09131 Australian Health Care Systems**

*Semester 1-28 hours*

In this subject the Australian health care system is studied with emphasis on Commonwealth/State / Local Government responsibility, the NSW health care service structure, community health care and specialist health care services, professional associations and organisations. The role of the medical and allied health professionals is covered. The subject also includes the study of hospital and health care statistics which encompass vital statistics, hospital census and bed returns, hospital workload and morbidity, mortality, infant, perinatal and maternal statistics. It also includes the definition of key terms used in hospital statistical reports, Department of Health definitions, and the analysis of statistical data.

**09133 Medical Terminology I**

*Semester 1-42 hours*

This subject is designed to introduce the student to the language necessary to understand the information contained in the medical record. The students study the basic concepts of medical terminology including the history and development of the medical language, roots, suffixes, prefixes, combining vowels and forms, medical, surgical and investigatory abbreviations relating to the body systems. Also included is the study of lay terms, eponyms, homonyms, medical and surgical specialists departments, and the use of a medical dictionary and MEMS.
09134 Medical Terminology II  
**Semester:** 2-42 hours  
**Pre-requisite:** Medical Terminology I (09133)  
This subject builds on the knowledge gained in Medical Terminology I by the study of terms relating to body systems including disease titles and symptoms. Terms relating to specific operative procedures/surgical techniques and common laboratory tests are also studied as well as the use and analysis of terms used in discharge summaries and operation reports. **Emphasis is placed on the identification, understanding and correct spelling of terms used in health care.**

09135 Communication  
**Semester:** 1-42 hours  
This subject has been developed to prepare the student for study at a tertiary level and to become an effective communicator, both verbally and in writing. Topics studied include the communication and perception processes, verbal and non-verbal communication, study skills, assignment writing, written communication and public speaking. Because students need to be proficient in literature searching this subject also includes an introduction to the Library, access to professional literature and audio-visual media, and referencing.

09136 Professional Experience I  
**Inter-semester:** 96 hours (3 weeks)  
The student is introduced to the procedures, functions and services of the medical record department, during a supervised placement in a health care facility. The theory of information systems is complemented by practical implementation in both manual and computerised environments.

09137 Health Information Systems I  
**Semester:** 1-70 hours  
This subject introduces the student to the concepts and components of an information system, the distinction between data capture and collection, the health record as an information system, the development of the health record during the health care process, and quality of medical recording. The role of the Health Information Manager (HIM) and functions of the medical record department are examined along with professional ethics and patient rights. The major component of this subject focuses on record management and covers patient identification, record numbering and filing systems, record control, retention and storage, discharge analysis, record content and structure including source-oriented medical records (SOMR) and problem-oriented medical records (POMR), patient confidentiality and release of information and records used for special purposes. This subject also includes an introduction to computers with an orientation to the VAX system, computerised patient administration systems including the PatientMaster Index (PMI), Admissions, Transfers and Separations (ATS) studied through the HOSPAS and MPAS systems. The theory of information systems is complemented by observational visits during the semester.

09138 Medico-Legal Principles I  
**Semester:** 2-28 hours  
In this subject students study legal principles relating to health care. Topics covered include the origin and development of the Australian legal system and the structure of the court system, legal personnel and litigation, subpoena of witnesses and records, the Law of Torts, rules of evidence, criminal law, law of contract and the Coroner's Court. The procedural implications of the above legal principles for health information management are covered.

09139 Microcomputer Applications  
**Semester:** 1-28 hours  
In this subject students are introduced to microcomputers. This includes the MS-DOS Operating System, a spreadsheet and a word processing package. The students evaluate advantages and limitations of microcomputers in comparison to mainframe computers.

101A2 Introduction to Psychology  
**Semester:** 1-42 hours  
A general introduction to the theoretical approaches in psychology including human growth and development, perception, learning and memory, motivation, emotion, personality and intelligence.
101 A3 Introduction to Sociology
Semester 2-42 hours
An introduction to the theoretical approaches to sociology, including social organisation and health, historical and cross cultural patterns of health and illness, the nature of the Australian economy, the Australian political structure, the nature of class in Australia, gender relations, Australian aborigines, non-English speaking migrants and ageing in Australian society.

11162 Basic Human Biology I
Semester 1-42 hours
Semester 2-42 hours
This subject includes an introduction to human biology and the anatomy and physiology of the cardiovascular, endocrine, reproductive, respiratory and urinary systems. It aims to provide an understanding of the anatomy and physiology of the human body and introduces terminology associated with these fields. This subject includes some laboratory classes where anatomy is studied from models and human cadavers.

Year 2

09238 Programming Logic and Design
Semester 1-56 hours
This subject introduces students to structured programming, using the language PASCAL. They learn the standard techniques generally employed in programming, the syntax of PASCAL, program design aids (Nassi-Shneiderman Diagrams), data types and data structures and the use of functions and procedures.

09239 Systems Analysis and Design
Semester 2-28 hours
In this subject students study structured system analysis including data flow diagrams, data dictionaries, decision tables and decision trees, programme logic flow charts, cost/benefit analysis, scheduling (PERT and CPM) techniques, system testing and conversion, post-implementation follow-up, input/output controls, programming and database controls. Other topics include data security, organisational structure, maintenance, general systems requirements, the evaluation process, criteria and testing methods, and acquisition consideration.

09242 Management Principles I
Semester 1-28 hours
Semester 2-28 hours
Pre-requisites: Communication (09135)
This subject is designed to introduce the students to the theory of management - both traditional and contemporary. Students also study the management functions of planning and organising, including facility location planning and occupational health and safety. Organisational communication is studied with particular emphasis on barriers to effective communication and how to overcome these barriers.

09243 Medical Science I
Semester 2-42 hours
Pre-requisite: Medical Terminology II (09134)
This subject is designed to provide the theoretical basis by which students can understand the process of medical care. Topics studied include disease processes and medical treatment relating to body systems concentrating on general and specialist medicine relating to the cardiovascular, respiratory, renal, metabolic, musculoskeletal, endocrine systems, and central nervous systems.

09244 Medical Terminology III
Semester 1-28 hours
Pre-requisite: Medical Terminology II (09134)
The study of medical terms continues in this subject with emphasis on terms relating to psychiatry, paediatrics, obstetrics, gynaecology, oncology, radiography, nuclear medicine and systemic disorders such as infectious diseases, collagen diseases and AIDS.

09248 Computer Applications in Health Care
Semester 1-28 hours
This subject is designed to examine hospital information systems in the wider context of computers in information management and in clinical management. This subject covers new developments in computer and communication technology and their application in health care systems.

09249 Database Systems
Semester 2-42 hours
Pre-requisite: Programming Logic and Design (09238)
This subject covers the study of relational database design, using d-Base TV, SQL and the Clinical Report System (CRS). This includes data structures, logic database design, the relational model and the functions of a database management system.

09246 Professional Experience II
Inter-semester -150 hours (4 weeks)
Pre-requisite: Professional Experience I (09136)
This subject allows the student to build on the practical experience gained in Year 1 by examining in detail the procedures in a medical record department. Students will be expected to be competent and proficient in carrying out medical record and health information procedures, using both manual and computerised systems. A major task during the placement is to write procedure manual entries for the medical record department.
09247 Clinical Classification II
Semester 1-42 hours
Semester 2-42 hours
Pre-requisites: Clinical Classification I (09117) and Medical Terminology II (09134).
This subject extends the study of disease classification and includes disease notification and registration procedures, cancer notification, registries and follow-up systems, as well as classification systems such as the International Classification of Diseases, Ninth Revision, (ICD9), and the International Classification of Diseases and Related Health Problems, Tenth Revision, (ICD10), ICPM, the International Classification of Diseases for Oncology (ICDO), Psychiatric Classifications (DSMDI-R); Rehabilitation Classifications (ICIDH, FIM and ADL); Ambulatory Classifications (CPT-4, ICHPPC-2 Defined, ICPC, IC-Process-PC, NAMCS, Reason for Visit); Nomenclatures (SNDO, SNOMED, and SNOP) and Severity of Illness and Injury Scoring Systems (Disease Staging, CSI, VSS, TS, AIS, APACHE, and MEDISGRPS). This subject is further developed by the inclusion of 30 hours intra-semester devoted to practical coding within the hospital setting.

10284 Social Psychology
Semester 1-42 hours
This subject includes the study of social perception and attribution theory, social interaction, social influence, aggression and violence, group dynamics and leadership theories.

10285 Health, Society and Social Change
Semester 2-42 hours
Pre-requisite: Introduction to Sociology (101A3)
Students are introduced to health and society including distribution of illness and implications for health care, social organisation, and the management of illness, the medical model, professionalism, management of acute and chronic illness and alternatives in health care delivery. This subject also covers social change and includes classical theories of social change, contemporary approaches to social change, evaluating public and private models of health care delivery, health care policy, technical changes, demographic change, health care systems and progressive social movement.

10286 Research Methods and Design
Semester 1-42 hours
This subject aims to introduce students to the concepts of scientific research by defining the key approaches, methods and designs by which research is undertaken, particularly within the health professions. It incorporates an outline of the research process which will guide students through the completion of a simple descriptive study. Students will develop basic skills related to instrument design, data collection and data analysis using descriptive statistics. EPI-INFO and SPSS (PC version) software will be utilised for statistical applications.

10287 Statistical Concepts
Semester 2-42 hours
Pre-requisite: Research Methods and Design (10286)
This subject aims to provide undergraduate students with the skills required to understand common statistical procedures used in conjunction with research methods and design. Topics include definition of key statistical terms, distribution, probability, significance levels, confidence intervals, inferential statistics, discriminant analysis, multiple group designs, factorial designs, repeated measures designs and introductory statistical modelling.

11283 Basic Human Biology II
Semester 1-42 hours
Semester 2-28 hours
Pre-requisite: Basic Human Biology I (11162)
This subject covers neuroanatomy and neurophysiology and the anatomy and physiology of gastrointestinal tract. An introduction to microbiology, haematology and immunology assists students in their understanding of disease processes. This subject includes some laboratory classes where anatomy is studied from models and human cadavers.

Year 3

09316 Research Project
Semester 1-28 hours
Semester 2-42 hours
Pre-requisite: Statistical Concepts (10287)
This subject has been designed to enable senior students to develop a research proposal in Semester 5 indicating an understanding of the research techniques involved and based on some aspect of the theory and practice of health information management. The project is carried out in Semester 6 at the end of which students present a report on the outcome and final analysis of the research undertaken.

09325 Financial Management in Health Care
Semester 1-28 hours
In this subject students are introduced to the financial management of hospitals and health service institutions. Topics covered include the accounting function embracing basic accounting procedures, financial and budgetary control methods, the budgetary process, types of budgets and auditing. In addition, the subject covers hospital accounting systems and methods of funding, performance and productivity, hospital cost analysis and control and clinical costing systems.
09337 Evaluation of Quality in Health Care
Semester 2-28 hours
In this subject students are introduced to the concepts of quality in health care and methods of health care evaluation. Topics covered include: structure, process and outcome measures; traditional quality evaluation techniques such as criteria audit, peer review and utilisation review; examination of variations in medical and surgical care; the development and calculation of quality indicators; methods of consumer evaluation of health care. Elements of an effective quality evaluation program and sources of information for use in evaluation are discussed. Industrial approaches to the evaluation of quality adapted for use in health, such as total quality management (TQM) are covered. In addition the evaluation of health care technologies, methods of changing health provider behaviour, health care accreditation and quality evaluation for health information services are included.

09339 Casemix Measurement Systems
Semester 1-42 hours
This subject is designed to cover a variety of casemix classification systems for acute and non-acute inpatients and ambulatory patients. The major emphasis will be on Diagnosis Related Groups (DRGs) with specific reference to the Australian National Diagnosis Related Groups (AN-DRGs). Casemix applications and current casemix initiatives will be explored.

09338 Clinical Classification III
Semester 2-28 hours
Pre-requisite: Clinical Classification II (09247)
This subject extends the student's skills in practical coding using ICD9CM. Emphasis will be on coding in hospital settings and will include use of computerised coding software. Methods for quality control of coding and solving coding problems will be examined.

09330 Management Principles II
Semester 1-42 hours
Semester 2-42 hours
Pre-requisite: Management Principles I (09242)
In this subject students continue to study the historical and theoretical aspects of management whilst relating this knowledge to the practical aspects of medical record management. Topics studied include motivation, leadership, the control process, information control systems, total quality management, human resource management and the management of conflict and change.

09331 Medical Science II
Semester 1-42 hours
Pre-requisite: Medical Science I (09243)
This subject continues the study of disease processes and the physician's and surgeon's response to these processes, and focuses on topics in general and specialist surgery and obstetrics.

09332 Medical Science III
Semester 2-28 hours
Pre-requisite: Medical Science II (09331)
In this subject the study of disease processes and medical intervention focuses on specialist topics such as psychiatry, paediatrics, oncology, radiotherapy, nuclear medicine, geriatrics, and rehabilitation medicine. Studies also include investigations and pharmacology.

09333 Epidemiology
Semester 2-42 hours
This subject introduces the student to epidemiology, through the study of historical aspects and design strategies in epidemiological research. This introduction also includes measures of disease frequency and association, types of epidemiological studies - descriptive, case-control, cohort studies and quantitative aspects of epidemiological research. This subject also includes data management for clinical trials including stages in the development of a clinical trial, organisational structure of a collaborative trial, protocol design and interpretation, methods of data collection and forms design, quality control and maintaining the integrity of the trial, and effective presentation of results in data management.

09335 Medico-Legal Principles II
Semester 1-28 hours
This subject covers institutional legal responsibilities in health care, and includes Commonwealth and NSW legislation relating to health care systems, and policies incorporated within the NSW Department of Health Patients Matters manual.

09340 Professional Experience III
Pre-semester - 75 hours (2 weeks)
Inter-Semester - 105 hours (3 weeks)
Pre-requisite: Professional Experience II (09246)
This subject is designed to extend the student's knowledge and level of understanding in all aspects of health information management. The pre-semester placement will give students the opportunity to investigate health information systems and the work of health information managers in settings outside medical record departments. The inter-semester placement will give students the opportunity to gain direct experience in the organisation and management of medical record and patient information services in hospitals.
10395 Psychology of Work and Management

Semester 1-42 hours
Pre-requisite: Social Psychology (10284)
This subject aims to bring behavioural science perspectives to the analysis of work, work behaviour and occupations as applied to health information management and includes work motivation, work satisfaction, work and the individual, the psychopathology of work, work stress, technical change, work and leisure, redesigning work and managing change.

10396 Sociology of Work and Organisations

Semester 2-42 hours
Pre-requisite: Health, Society and Social Change (10285)
This subject further extends the applications of behavioural science to the work situation of the health information manager and includes a study of the occupational structure in industrial societies, career and occupational choice, the profession concept, professionalisation, professions in bureaucracy, the work situation, alienation and occupational socialisation. Also included is a study of organisations in society, sociological perspectives, social structural analysis, formalisation in organisations, hospitals and other organisations, sanctions and social control, professionals in organisations, social definition approaches, communication, disadvantaged and minority groups in organisations.

Honours Programme

General information related to the Honours Programme is presented in Chapter 3. For specific information related to the Health Information Management Honours Programme, students are advised to contact the Secretary of the School of Health Information Management.

Students in the Honours Programme complete all Year 3 subjects in the Pass Course. In addition, students must complete the following:

Year 3

10503 Advanced Research Methods

Semester 1-42 hours
In this subject students will extend and consolidate the research methods and statistical skills acquired at the undergraduate level. This subject provides the underpinning for additional subjects related to research to be taken at the postgraduate level.

Research Elective

Semester 2-42 hours
For Elective subject descriptions, see Appendix 1.

Year 4

09463 Research Proposal

Semester 1-28 hours
The aim of this subject is to allow the students to develop a formal research proposal for their intended research thesis. This will include the development of the research question, literature review, research design and proposed statistical analysis.

09432 Research Seminar

Semester 1-28 hours
Semester 2-28 hours
This subject has been designed to give Honours students the opportunity to evaluate the suitability of various philosophical assumptions and scientific approaches for research in the area of health information management and to develop and adopt effective sampling procedures, instruments, research designs and statistical procedures for their particular research project.

09433 Research Thesis

This subject provides the Honours students with the opportunity to undertake an investigation of an area of specialised interest in health information management or a closely related area and prepare a written report including a description of the research question, the process of investigation, a literature review, the findings and their implications in relation to the management of health information.
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<td>Introduction to Management Principles</td>
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<td>09439</td>
<td>Epidemiology and Biostatistics</td>
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Notes:
\(^1\) 3 weeks Inter-semester placement
2 weeks Post-semester placement
Graduate Diploma of Applied Science (Health Information Management)

The Graduate Diploma of Applied Science (Health Information Management) offers a specialised programme in the professional area of health information/medical record management.

The course is designed to prepare specialists in the management of health information systems at an advanced level. It provides participants with a core of knowledge and skills appropriate to the effective practice of health information management. The course focuses on the information needs of health care professionals and facilities and provides a sound education in information systems management, microcomputing, programming, database design, medical terminology, medical science, medico-legal principles, management principles including human resource management, research methods and statistical concepts, disease classification and casemix measurement systems, management in health care facilities and quality assurance in health care.

Admission Requirements
1. A Bachelor degree in a related area from an Australian or Overseas Tertiary Institution and such relevant work experience as satisfies the Head of School,
   OR
2. Some other form of relevant qualification as satisfies the Head of School.

Course Outline
The Course Outline for the Graduate Diploma of Applied Science (Health Information Management) is presented in Table 9.2.

Subject Descriptions

09464 Evaluation of Quality in Health Care
Semester 2-28 hours
In this subject, students are introduced to the concepts of quality in health care and methods of health care evaluation. Topics covered include: structure, process and outcome measures; traditional quality evaluation techniques such as criteria audit, peer review and utilisation review; examination of variations in medical and surgical care; the development and calculation of quality indicators; methods of consumer evaluation of health care. Elements of an effective quality evaluation program and sources of information for use in evaluation are discussed. Industrial approaches to the evaluation of quality adapted for use in health, such as total quality management (TQM) are covered. In addition, the evaluation of health care technologies, methods of changing health provider behaviour, health care accreditation and quality evaluation for health information services are included.

09422 Human Resource Management
Semester 2-28 hours
This subject is designed to introduce the student to the human resource management functions relevant to the work of the health information manager. Areas covered include recruitment and selection, staff appraisal, training and development and human resource planning. The implications of equal employment and affirmative action legislation to human resource management are also covered. The industrial relations framework in Australia with particular emphasis on the current workforce focus and conflict resolution are covered and students are also taught to prepare their own curriculum vitae.

09425 Introduction to Data Processing and Microcomputers
Semester 1-28 hours
This subject introduces the student to mainframe computers and microcomputers and also deals with the history of computer technology, introduction to computer hardware and concepts, use of microcomputers and applications software. Areas studied include MS-DOS, dBase III and use of a spreadsheet package eg. Lotus 1-2-3.

09451 Introduction to Management Principles
Semester 1-42 hours
This subject is designed to introduce post graduate students to the general principles of management. Topics focus on both traditional and contemporary management theories and the management functions of planning, organising, leading and controlling. Other areas include: total quality management, motivation, organisational communication, the change process, job analysis and job design principles and management competencies relevant to health information managers.

09429 Financial Management in Health Care Facilities
Semester 1-28 hours
This subject has been designed to develop the student’s understanding of the general principle of financial management in health services and to provide practice in a number of skills of financial management relevant to the administration of medical record services in a health care facility.

09430 Computer Applications in Health Care
Semester 1-28 hours
This subject is designed to examine hospital information systems in the wider context of computers in information management and in clinical management. This subject covers new developments in computer and communication technology and their application in health care systems.
09431  International Disease Classification Systems
Semester 1 - 28 hours
Semester 2 - 28 hours
This subject has been designed to enable the student to classify diseases and operations using ICD9CM, ICPM and ICD9. It includes the historical development of clinical classification systems as well as the purpose and value of classifying diseases and operations, and the use of special classification systems such as ICDO, Disease and Operations Indices, NSW Morbidity and Perinatal Statistics Collection, Disease Notification, Severity and Injury Scoring Systems, Death Registration and Mortality Statistics.

09434  Information Systems Management I
Semester 1 - 42 hours
This subject introduces the student to the concepts of health information systems management by means of an integrated study of the nature of information, health record management, including patient identification, filing and retrieval systems, record control, forms design, record structures and computerised health record systems such as HOSPAS and MP AS; health care statistics including vital statistics, morbidity data collection and statistical applications, infant, maternal and perinatal statistics, reports and data quality.

09435  Health Care Systems
Semester 1 - 28 hours
In this subject the Australian health care system is studied with emphasis on Commonwealth/State/Local Government responsibility, the NSW health care service structure, community health care and specialist health care services, professional associations and organisations.

The role of medical and allied health professionals is covered. The subject also includes the study of hospital and health care statistics which encompass vital statistics, hospital census and bed returns, hospital workload and morbidity, mortality, infant, perinatal and maternal statistics. It also includes the definition of key terms used in hospital statistical reports, Department of Health definitions, and the analysis of statistical data.

09436  Information Systems Management II
Semester 2 - 42 hours
The subject builds onto Health Information Systems I with an integrated study of forms design and management; and records used in special areas, such as community health, primary care and general practice, mental health and developmentally disabled records, rehabilitation and dental records, long term care, nursing homes and hospice records. The study of general record management also includes and covers procedures and task allocation, dataflow, numbering systems and storage, subject classification, thesauri development, indexing theory, computer-aided records management, disposal schedules, vital records and disaster recovery. Within this subject, students also study in depth a specially selected professional topic with a review of the literature and the presentation of a seminar paper.

09438  Casemix Measurement Systems
Semester 2 - 42 hours
This subject is designed to introduce the student to a variety of casemix classification systems for acute and non-acute inpatients and ambulatory patients. The major emphasis will be on Diagnosis Related Groups (DRGs) with specific reference to the Australian National Diagnosis Related Groups (AN-DRGs) system. Casemix applications and current casemix initiatives will also be explored. Computerised grouping and coding software will also be utilised by the students.

09439  Epidemiology and Biostatistics
Semester 2 - 42 hours
This subject introduces the student to epidemiology through the study of historical aspects and design strategies in epidemiological research. This introduction also includes measures of disease frequency and association, types of epidemiological studies - descriptive, case-control, cohort studies - and quantitative measures for epidemiological research. This subject also includes data management for clinical trials including stages in the development of a clinical trial, organisational structure of a collaborative trial, protocol design and interpretation, methods of data collection and forms design, quality control and maintaining the integrity of the trial, and presentation in data management.

09443  Medico-Legal Principles
Semester 2 - 42 hours
In this subject students study legal principles relating to health care. Topics covered include the origin and development of the structure of the court system, legal personnel and litigation, subpoena of witnesses and records, the Law of Torts, rules of evidence, criminal law, law of contract and the Coroner’s Court. The subject also addresses institutional legal responsibilities and covers Commonwealth and NSW legislation relating to health care systems; and policies incorporated within the NSW Department of Health Patient Matters Manual.
09445 Introduction to Programming and Database Design

*Semester 2-56 hours*

This subject introduces students to the third generation programming language PASCAL, Nassi-Shneiderman Diagrams as program design aids, to data types, data structures, functions and procedures. In the second half of the Semester they learn to use the database package CRS (Clinical Report System) and to design a new database on CRS.

09446 Fundamentals of Medicine and Medical Terminology I

*Semester 1-70 hours*

This subject is designed to provide the student with the knowledge necessary to understand the information contained in the health record, to function within a medical environment through an understanding of the fundamentals of medicine, and to effectively use disease classification systems. Within each body system, the student will study disease processes and their treatment, and medical terminology (disease titles, symptomatic terms, surgical terms and investigations).

09447 Fundamentals of Medicine and Medical Terminology II

*Semester 2-70 hours*

This subject continues the study of disease processes and interventions, and medical terminology, organised around body stems. Specialist areas such as psychiatry, oncology, nuclear medicine and multisystem disorders will also be addressed.

09448 Professional Experience

*Inter-semester -105 hours  Post-semester 2-90 hours*

This subject is designed to extend the student's knowledge of health information management, to give them an opportunity to apply the theoretical knowledge they have gained and to develop competency and proficiency in the workplace. It also provides the students with the opportunity to undertake a project which will develop their problem solving skills while exploring special areas of interest in health information management.

10286 Research Methods and Design

*Semester 1-42 hours*

This subject aims to introduce students to the concepts of scientific research by defining the key approaches, methods and designs by which research is undertaken, particularly within the health professions. It incorporates an outline of the research process which will guide students through the completion of a simple descriptive study. Students will develop basic skills related to instrument design, data collection and data analysis using descriptive statistics. EPI-INFO and SPSS (PC version) software will be utilised for statistical applications.
Table 9.3  Master of Applied Science (Health Information Management) (by Research)

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<td>0910P</td>
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Notes:

1. Research Elective: Students select one of the following subjects (subject to sufficient student numbers) in consultation with their supervisors:
   - 08501 Epidemiological Research
   - 08502 Evaluation Research
   - 08503 History and Philosophy of Scientific Methodology
   - 10504 Quantitative Research Methods
   - 10505 Qualitative Research Methods

9 - 14  School of Health Information Management
Master of Applied Science (Health Information Management)
The School of Health Information Management has a firm commitment to the development of knowledge and skills appropriate to the needs of health information managers. The postgraduate programmes offered by the School are therefore designed to give graduates an opportunity to pursue advanced study in areas of professional interest including Information Systems, Organisational Management and Evaluation Methodology.

The Master of Applied Science (Health Information Management) is largely by research thesis with minimal supplementary course work. This program gives graduates an opportunity to further develop their skills by undertaking research in a specialised area of study.

Admission Requirements
1. A Bachelor Degree in Medical Record Administration/Health Information Management from an Australian tertiary institution, OR
2. An Associate Diploma in Medical Record Administration plus an approved Bachelor Degree, AND
3. Such qualifications as are deemed to be equivalent to (1) or (2),

Course Outline
The Course Outline for the Master of Applied Science (Health Information Management) is presented in Table 9.3.

Subject Descriptions
09900 Special Programme-Health Information Management
The Special Programmes are devised to meet individual needs. They are not subjects in the normal sense and do not necessarily involve a common syllabus and should not be compared between individual cases.

09467 Research Proposal
Semester 1-14 hours
Semester 2-14 hours
The aim of this subject is to allow the students to develop a formal research proposal for their intended research thesis. This will include the development of the research question, literature review, research design and proposed statistical analysis. Successful completion of this subject will be required before enrolment in the subject 09418 Research Thesis.

09418 Research Thesis
Pre-requisite: Research Proposal (09467)
The Research Thesis forms the major component of the Masters programme. Students are given the opportunity to investigate, in depth, an area of specialised interest in health information management or a closely related area. Each student will work with a supervisor or supervisors who will guide them through each stage of the study and the preparation of the thesis.

09416 Research Seminars I
Semester 1-14 hours
Semester 2-14 hours
The seminars are designed to provide a formal structure to support the development of a research proposal. The seminars provide a forum for students to exchange and test ideas pertinent to the development of the research proposal.

09417 Research Seminars II
Semester 1-14 hours
Semester 2-14 hours
The seminars are designed to be an integral part of the research thesis and are held concurrently with the subject 09418 Research Thesis. The seminars will provide a forum for students to present the progress of their research and will facilitate the exchange of ideas between academic staff and students.

10503 Advanced Research Methods
Semester 1-42 hours
In this subject students will extend and consolidate the research methods and statistical skills acquired at the undergraduate level. This subject provides the underpinning for additional subjects related to research to be taken at the postgraduate level.

Research Electives
Semester 2-42 hours
For Elective subject descriptions, see Appendix 1.
Professional Experience
Professional Experience provides students with a variety of learning experiences which relate both to the theoretical content of the classroom and to their future professional career goals. A range of field-based activities are organised in selected learning sites which include hospitals, community care centres, research units and the Department of Health (N.S.W.).

1994 Clinical Practice Dates

**Bachelor of Applied Science**

*Year 1*
June 26 - July 15 (3 weeks)

*Year 2*
July 10 - August 4 (4 weeks)

*Year 3*
February 6 - February 18 (2 weeks)
July 10 - July 29 (3 weeks)

**Graduate Diploma of Applied Science**
June 26 - July 15 (3 weeks)
December 4 - December 22 (3 weeks)

**Uniforms**
Unforms and identification badges must be worn by all students during practical placements.
The School of Medical Radiation Technology was established at the Cumberland College of Health Sciences in 1988 when it offered a Diploma of Applied Science (Medical Radiation Technology). The Bachelor of Applied Science (Medical Radiation Technology) course commenced in 1992. There are three professional streams in the undergraduate course, viz Diagnostic Radiography, Radiation Therapy and Nuclear Medicine Technology. A Graduate Diploma of Applied Science (Medical Ultrasonography) commenced in 1991. A Graduate Certificate of Applied Science (Medical Ultrasonography), a distance education program for rural health workers, commenced in 1994.

A Diagnostic radiographer is responsible for the production of diagnostic images on a patient who has been referred for a specific series of investigations. Most of the investigations performed will use radiation beams (X-ray) to create the image. The investigations vary markedly in their complexity extending from simple skeletal radiographs to sophisticated high technology investigations which use both radiation beams and computers to create sectional images or a map of other parts of the body. A rapidly emerging high technology investigation, Magnetic Resonance Imaging, uses high intensity magnetic fields, radio-frequency waves and computers to create images of any region of the patient's body.

The Nuclear Medicine Technologist uses radioactive substances and sophisticated instrumentation such as gamma cameras and image analysis computers to gain diagnostic information about disease. Nuclear Medicine procedures provide physiological as well as structural information about the human body. The technologist is responsible for preparing radiopharmaceuticals, working directly with patients, analysing computer data, and producing images and results for medical diagnosis.

The Radiation Therapist is responsible for the accurate and precise planning, calculation and delivery of radiation to cure or relieve the symptoms of malignant disease. The Radiation Therapist is involved in the localisation of the treatment area using CT scans and treatment simulators, the design and calculation of the treatment technique using sophisticated computerised planning systems, and the daily treatment of patients. Accurate positioning of the patient and the treatment machine is essential because of the high doses of radiation that are delivered to the diseased area. The profession combines close patient contact with the use of high technology equipment.

A Medical Sonographer is responsible for the production of diagnostic images and for obtaining other diagnostic information using ultrasound. Investigations are performed on most soft tissue regions of the body.
Table 10.1  Bachelor of Applied Science (Medical Radiation Technology)

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Total Hours: 385
Sem 1 Hours: 140
Sem 2 Hours: 245

Year 3
Notes

1. This is an additional subject for students accepted into the Honours Programme.
2. This subject replaces 10394 Behavioural Science III. Honours students who have passed this subject but who do not proceed to Year 4 of the Honours programme or are unsuccessful in Year 4 of the programme will be deemed to have completed the requirements of 10394 Behavioural Science m.
3. Students may choose from one of the following electives:

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Bachelor of Applied Science (Medical Radiation Technology)
This course has three main streams: Diagnostic Radiography, Nuclear Medicine Technology and Radiation Therapy. The course is structured with a common first year and specialisation is achieved during the second and third years.

Admission Requirements
The General Admission Requirements in Chapter 3 apply. It is, however, strongly recommended that applicants have completed at least the following HSC subjects: 2 unit Maths and two of 2 unit Physics, 2 unit Chemistry and 2 unit Biology, as considerable elements of these subjects are assumed knowledge on entry to the course. Advanced standing in some subjects will be given on the basis of successfully passing a challenge exam.

Course Outline
The course outline with its three streams and Honours Programme is presented in Table 10.1.

Subject Descriptions

Year 1

101A1 Behavioural Science I
Semester 1-42 hours
Semester 2-42 hours
This subject is comprised of two units: Computing and Psychology.
The Computing unit provides an introduction to computer systems with special emphasis on the microcomputer. There will be an overview of the most popular applications relevant to the health sciences and the general principles of structured programming will be exemplified, mainly through Pascal. The Psychology unit examines normal human behaviour: its nature, determinants and development patterns. Topics to be covered include an introduction to psychology, motivation and emotions, perception, learning, intelligence, development and personality.

11171 Radiation Physics
Semester 1-98 hours
Semester 2-70 hours
This subject examines the structure of matter, together with physical phenomena such as types of radiation, electricity, magnetism, heat, optics and acoustics. In addition, students are introduced to basic electronics, biological effects of non-ionising radiation, protection against ionising radiations, and electrical safety.

11174 Anatomy of Body Systems
Semester 1-56 hours
Semester 2-56 hours
The aim of this subject is to introduce the structure and function of the human body systems with particular emphasis on aspects relevant to the branches of Medical Radiation Technology. This subject includes laboratory classes where the subject is studied from human cadavers. Attendance at such classes is required for the subject.

11193 Introductory Human Biology
Semester 2-56 hours
This subject will present aspects of the basic chemistry, biochemistry and physiology which underlie the normal function of the human body. The topics considered include general cellular structure and function, cell metabolism, protein synthesis, cell division, the principles of homeostasis, genetics and blood.

18113 Medical Radiations
Semester 1-84 hours
Semester 2-84 hours
Co-requisite: Radiation Physics (11171)
This subject provides an introduction to the fundamental principles and applications of diagnostic radiography, radiation therapy, nuclear medicine and diagnostic ultrasound. The characteristics and handling of recording media, such as radiographic film, and an introduction to the safe use of medical radiations are included.

18114 Clinical Education I
Semester 1-105 hours
Co-requisite: Medical Radiations (18113)
This subject provides an introduction to the clinical environments of diagnostic radiography, nuclear medicine and radiation oncology and the role of the diagnostic radiographer, nuclear medicine technologist or radiation therapist as a member of the health care team.
Year 2

10283 Behavioural Science II
Semester 1-30 hours
Semester 2-30 hours
Pre-requisite: Behavioural Science I (101A1)
This subject is comprised of two units. The unit in Australian Society and Culture covers the basic sociological concepts and their significance for analysing contemporary Australian society. The second unit, Communication and Interaction applies theoretical perspective and concepts from Psychology and Sociology to aspects of communication and interaction.

112B5 Pathophysiology
Semester 1-50 hours
Semester 2-50 hours
This subject presents aspects of the body's response to disease and characteristics of dysfunction and pathology relevant to the study of medical radiation technology.

18220 Radiation Biology and Protection
Semester 1-10 hours
Semester 2-10 hours
Pre-requisites: Radiation Physics (11171) Introductory Human Biology (11193)
This subject provides an in-depth study of the radiobiological effects and safe usage of ionising medical radiations.

18221 Sectional Anatomy
Semester 1-20 hours
Semester 2-20 hours
Pre-requisite: Anatomy of Body Systems (11174)
This subject enables the student to identify normal anatomy in sectional images by creating a framework upon which an organ is identified due to its spatial relationships and appearances as displayed on diagnostic images such as basic radiographic studies, CT, MRI, ultrasound, Nuclear Medicine Studies, SPECT and PET.

18222 Imaging I
Semester 1-40 hours
Semester 2-40 hours
Pre-requisites: Radiation Physics (11171) Medical Radiations (18113)
Co-requisite: Radiation Biology and Protection (18220)
This subject studies the construction, design, operation and quality control of general radiographic and processing equipment. This subject also includes dosimetry of diagnostic radiography beams and basic methods of radiation protection.

18223 Radiography I
Semester 1-50 hours
Semester 2-50 hours
Pre-requisites: Radiation Physics (11171), Medical Radiations (18113), Clinical Education I (18114)
Co-requisites: Imaging I (18222), Clinical Education A (18224)
The principles and practice of plain non-contrast radiographic procedures are comprehensively addressed in this subject. This subject studies the radiographic appearance of relevant osseous and visceral anatomy visualised in the plain radiographic procedures taught in this subject.

18233 Radiographic Pathology I
Semester 1-20 hours
Semester 2-20 hours
Pre-requisites: Anatomy of Body Systems (11174) Introduction to Human Biology (11193)
Co-requisites: Pathophysiology (112B5), Radiography I (18223)
This subject provides the student with an introduction to the pattern recognition necessary to distinguish a non-normal appearance in radiographs of the chest, abdomen and bony skeleton. The subject identifies specific injuries, and disease processes that image as an abnormality.

18224 Clinical Education MA
Semester 1 - 245
Semester 2-1C0
Pre-requisites: Medical Radiations (18113) Clinical Education I (18114)
Co-requisite: Radiography I (18223)
This subject provides a structured programme of clinical experience to attain knowledge and skills for the radiographic examinations taught in Radiography I.

18225 Instrumentation I
Semester 1-20 hours
Semester 2-20 hours
Pre-requisites: Radiation Physics (11171) Medical Radiations (18113)
This subject studies the construction, design, operation and quality control of nuclear medicine instrumentation components.

18226 Nuclear Medicine I
Semester 1-60 hours
Semester 2-60 hours
Pre-requisites: Radiation Physics (11171) Medical Radiations (18113), Clinical Education I (18114)
Co-requisites: Radiopharmacy (18227), Clinical Education HB (18228)
This subject examines in detail the applications of radionuclides and imaging procedures for gastrointestinal, respiratory, skeletal, genito-urinary, lymphatic and central nervous systems of the body including the study of the associated physiological pathways.
18227 Radiopharmacy
Semester 1-30 hours
Semester 2-30 hours
Pre-requisite: Introductory Human Biology (11193)
Co-requisite: Nuclear Medicine I (18226)
This subject examines the design, production, preparation and biological behaviour of radiopharmaceuticals.

18228 Clinical Education IIB
Semester 1 - 245 hours
Semester 2 - 140 hours
Pre-requisites: Medical Radiations (18113) Clinical Education I (18114)
Co-requisite: Nuclear Medicine I (18226)
This subject provides a structured programme of clinical experience to attain knowledge and skills for the nuclear medicine procedures taught in Nuclear Medicine I.

18229 Radiation Therapy I
Semester 1-70 hours
Semester 2-60 hours
Pre-requisites: Radiation Physics (11171), Medical Radiations (18113), Clinical Education I (18114)
Co-requisites: Tumour Pathology (112B6), Radiotherapy Physics I (18230), Clinical Education HC (18232)
This is the first of two subjects which cover the principles and applications of applied radiation oncology. There is an emphasis in this subject on basic treatment procedures, simulation and planning methods.

18230 Radiotherapy Physics I
Semester 1-30 hours
Semester 2-30 hours
Pre-requisites: Radiation Physics (11171), Medical Radiations (18113)
Co-requisite: Tumour Pathology (112B6)
This subject presents the physical principles underlying the use of ionising radiation in radiation therapy. It concentrates on the physics of external beam therapy and radiation safety.

112B6 Tumour Pathology
Semester 1-10 hours
Semester 2-20 hours
Pre-requisites: Anatomy of Body Systems (11174), Introduction Human Biology (11193)
Co-requisite: Pathophysiology (112B5)
This subject studies the detailed pathology of tumours to provide a foundation to understanding the rationale of oncological regimes.

18232 Clinical Education HC
Semester 1-245 hours
Semester 2-140 hours
Pre-requisites: Medical Radiations (18113), Clinical Education I (18114)
Co-requisite: Radiation Therapy I (18229)
This subject provides a structured programme of clinical experience to apply the knowledge and skills studied in Radiation Therapy I.

Year 3

10394 Behavioural Science III
Semester 1-78 hours
Semester 2-60 hours
Pre-requisite: Behavioural Science II (10283)
There are four units in this subject. The first unit on Life Stress provides students with an understanding of reactions to stress particularly in healthcare settings. The second unit, Introduction to Research Methods examines the research process, design and statistics applied mainly to the critical evaluation of research literature. Health, Medicine and Society provides an analysis of the institutional aspects of medical and health care while the final unit provides an introduction to Social Psychology.

18318 Image Processing
Semester 1-28 hours
Semester 2-20 hours
Pre-requisite: Medical Radiations (18113)
This subject provides a study of the fundamentals, concepts and applications of processing images in digital form using computer based systems.

18319 Sonography
Semester 1-28 hours
Semester 2-30 hours
Pre-requisite: Medical Radiations (18113)
This subject provides an introduction to the clinical applications and practice of diagnostic ultrasound.

18320 Professional Studies
Semester 1-14 hours
Semester 2-10 hours
Pre-requisite: Clinical Education HA (18224), OR Clinical Education IIB (18228), OR Clinical Education IIC (18232)
This subject provides a framework for the understanding of the professional, ethical and legal issues relating to the medical radiation profession. Emphasis will be placed on the current professional issues in medical radiation technology and the impending role of the graduate as a contributing member of the profession.

18322 Imaging II
Semester 1-56 hours
Semester 2-40 hours
Pre-requisites: Radiation Biology & Protection (18220), Imaging I (18222), Radiography I (18223)
Co-requisite: Image Processing (18318)
This subject complements Imaging I and concentrates upon ensuring a study of the full range of radiographic equipment including that designed for special procedures. Quality assurance and radiation protection principles and practice are expanded further.
18322 Radiography II
Semester 1-56 hours
Semester 2-40 hours
Pre-requisites: Radiography I (18223), Clinical Education HA (18224)
Co-requisite: Clinical Education IIA (18323)
This subject builds upon Radiography I by extending the studies to the full range of contrast media studies and introducing the more specialised radiographic examinations. This subject also provides the student with a structured "problem solving" approach to the radiography of technically difficult procedures on patients with advanced stages of a disease process or who have sustained injury causing severe physical disability.

18332 Radiographic Pathology II
Semester 1-14 hours
Semester 2-10 hours
Pre-requisite: Pathophysiology (112B5), Sectional Anatomy (18221), Radiographic Pathology I (18233)
Co-requisite: Radiography II (18322)
This subject introduces the student to the radiographic manifestations of selected disease processes, congenital disorders and malformations in the alimentary tract, hepatobiliary, genitourinary and central nervous systems.

18333 Contrast Media
Semester 1-14 hours
Semester 2-10 hours
Pre-requisite: Introduction to Human Biology (11193)
Co-requisites: Radiography II (18322), Clinical Education HA (18323)
This subject provides the student with fundamental knowledge of the properties and effects of positive, negative and paramagnetic contrast media, with particular emphasis on intravascular contrast media. The mechanisms of contrast media reactions, and the treatment of acute reactions will be included.

18323 Clinical Education IMA
Pre-semester -140 hours
Inter-semester -105 hours
Semester 2-140 hours
Pre-requisite: Clinical Education IIA (18224)
Co-requisite: Radiography I (18332)
This subject provides a structured programme of clinical experience to attain the applied knowledge and skills for radiographic examinations taught in Radiography n.

18324 Instrumentation II
Semester 1-56 hours
Semester 2-40 hours
Pre-requisite: Instrumentation I (18225)
This subject provides the student with a detailed knowledge of the most recently developed Nuclear Medicine Instrumentation systems giving the student some understanding of appropriate usage and performance evaluation.

18325 Nuclear Medicine II
Semester 1-84 hours
Semester 2-60 hours
Pre-requisites: Nuclear Medicine I (18226) Clinical Education UB (18228)
Co-requisites: Instrumentation II (18324), Clinical Education HIB (18326)
This subject examines in detail the applications of Nuclear Medicine to the cardiovascular, endocrine, tumour and infective localisation systems of the body as well as giving students an understanding of Positron Emission Tomography, Radio Immuno Assay and in vivo tracer studies.

18326 Clinical Education 1MB
Pre-semester -140 hours
Inter-semester -105 hours
Semester 2-140 hours
Pre-requisite: Clinical Education IIB (18228)
Co-requisite: Nuclear Medicine II (18325)
This subject provides a structured programme of clinical experience to attain knowledge and skills for the Nuclear Medicine procedures taught in Nuclear Medicine n.

18327 Radiation Therapy II
Semester 1-70 hours
Semester 2-50 hours
Pre-requisites: Radiation Therapy I (18229), Radiotherapy Physics E (18230), Clinical Education IIC (18232)
Co-requisites: Principles of Oncology (18329), Clinical Education IHC (18330)
This subject provides an introduction to advanced applications of applied radiation oncology. There is emphasis on advanced treatment planning techniques, new modalities and the development of problem solving skills.

18328 Radiotherapy Physics II
Semester 1-28 hours
Semester 2-20 hours
Pre-requisite: Radiotherapy Physics I (18230)
This subject introduces the student to brachytherapy, the less common treatment modalities and developing areas in radiation oncology, including the physical basis of three dimensional planning and neutron and pi meson therapy.

18329 Principles of Oncology
Semester 1-28 hours
Semester 2-20 hours
Pre-requisites: Tumour Pathology (112B6), Radiation Therapy I (18229)
Co-requisite: Radiation Therapy II (18327)
This subject provides the student with an understanding of the rationale underlying radiation therapy and of its relationship with other cancer treatment modalities.
18334 Radiation Therapy Project
Semester 1-14 hours
Semester 2-10 hours
Pre-requisites: Radiation Therapy I (18229), Clinical Education EC (18232)
Co-requisite: Behavioural Science IE (10394) OR Behavioural Science III (Honours) (103B2)
This subject provides the student with the opportunity to undertake an investigative project in a specific area of applied radiation therapy. This project will develop the student's ability to work independently, with minimum supervision and introduces the student to the place of research in radiation therapy.

18330 Clinical Education IIC
Pre-semester -140 hours
Inter-semester -105 hours
Semester 2 - 140 hours
Pre-requisite: Clinical Education IIC (18232)
Co-requisite: Radiation Therapy E (18327)
This subject provides the student with a structured programme of clinical experience to apply the knowledge and skills obtained in Radiation Therapy n.

Honours Programme

Selection Criteria
Students to enter the Honours Programme will be selected on the basis of their academic record and research interests.

General information related to the Honours Programme is presented in Chapter 3. For information specific to the Medical Radiation Technology Programme, students are advised to contact the Secretary for the School of Medical Radiation Technology.

Students in the Honours Programme complete all Year 3 subjects in the Pass Programme, except 10394 Behavioural Science m. In addition, students in the Honours Programme complete the following:

Year 3

103B2 Behavioural Science III (Honours)
Semester 1-14 hours
Semester 2-20 hours
This subject identifies the research possibilities in the professional area of medical radiation technology, covers elements of research ethics, and provides the student with the knowledge required to compile a research proposal.

Year 4

10475 Research Methods and Statistics
Semester 1-42 hours
This subject is designed to provide the health science student with an understanding of basic research and statistical methods and practical applications relevant to clinical practice. The focus is on statistical reasoning and extracting meaning from data. Extensive use is made of modern computer software to achieve this. The broad areas discussed are: methods for data exploration and description, strategies for data collection, statistical inference and estimation. Statistical description methods comprise numerical and graphical methods for one and two variable models including control charts and regression models. Rationales for sampling, observational and experimental designs for data production are discussed. Inferential methods including estimating with confidence and tests of significance are introduced for one and two samples.

18419 Research in Medical Radiations II
Semester 2-14 hours
Computer skills will be developed in a practical manner for statistics, spreadsheet and data presentation packages. Individual consultation will be provided for problems related to the statistics of students' research projects.

18412 Honours Workshop
Semester 1-28 hours
Semester 2-28 hours
This subject is designed to assist Honours students with the development of their individual research projects for completion in Year 4. It is intended that students will develop skills in oral presentation and problem-solving strategies during group discussion of individual problems arising in their projects.
18413 Research Project
This subject provides the Honours student with the opportunity to undertake a supervised research project in an area of medical radiation technology. As part of this and other Honours subjects, each student will design and implement an approved research project and submit a thesis describing the project and its implications or write a treatise on an approved topic. While completing the research and thesis or treatise, each student will work closely with their supervisor.

A Thesis is a proposition to be maintained or proven. This normally involves a research based as opposed to a theoretically based project. In a thesis the following normally occur:

- a proposition is delineated from appropriate literature and theory.
- an empirically evaluated hypothesis is derived from the proposition which defines the data to be tested
- methodologies for testing the data are discussed
- an appropriate methodology is selected
- the research is conducted
- the results of the research are analysed and discussed

A Treatise refers basically to a literary composition, "one containing a formal or methodical discussion or methodical exposition of the principles of the subject" (The Oxford English Dictionary, 1970). A treatise normally establishes and seeks to solve a problem and while it may involve the use of statistical methodologies relies mainly on logical propositions and proof. A treatise does not normally involve research in the traditional experimental sense, meaning arguments for the establishment of statistical methodologies and the actual carrying out and analysis of research according to the established methodology. The writer of a treatise may not need to acquire specific statistical skills.

Elective
Semester 2-42 hours
Students select one of the following subjects (subject to sufficient student numbers) in consultation with their supervisors:

10503 Advanced Research Methods
In this subject students will extend and consolidate the research methods and statistical skills acquired at the undergraduate level. This subject provides the underpinning for additional subjects related to research to be undertaken at the postgraduate level.

08501 Epidemiological Research
In this subject students will be exposed to aspects of conducting epidemiological research, an area which focuses on the study of the distribution of disease, the search for determinants of the observed distribution and a subsequent evaluation of causal hypothesis.

08502 Evaluation Research
In this subject students will be exposed to aspects of conducting evaluation research, an area that focuses on the application of multi-disciplinary research methods to health sciences in a decision-making context.

10505 Qualitative Research Methods
This subject exposes students to the major philosophical foundations and strategies of research in the social sciences.

08503 History and Philosophy of Scientific Methodology
This subject is designed to provide students with a critical perspective as a specific form of knowledge. It introduces students to the major philosophies of the scientific enterprise taking into account the social versus natural science controversy.

10514 Survey Research Methods
This subject examines survey research design principles and considers conceptualisation, sampling, questionnaire construction and pilot testing of data collection instruments. Techniques for the collection, coding and key punching of survey data will be covered and students will gain experience with computer analysis of survey data. The strengths and limitations of survey data will be discussed.
Clinical Education Programme (Degree)
The three weeks of Clinical Education in Year 1 provide a general introduction to the principles of patient care and to the role of the medical radiation technologist. All students will be introduced to the clinical aspects of the Diagnostic Radiography Nuclear Medicine Technology and Radiation Therapy modalities, as well as gaining extra experience in the area of their speciality.

In Years 2 and 3, students will be separated into their respective specialise for Clinical Education.

Diagnostic Radiography
The eleven weeks per year of Clinical Education in Years 2 and 3 provide an opportunity for the student to integrate the knowledge acquired in the professional subjects with the practical skills attained in the workplace. The introduction of clinical procedures in Clinical Education HA and HIA is closely synchronised with the acquisition of the related theory in the professional technique subjects. To broaden the student's clinical skills a variety of Radiology centres will be accessed to enable a wide breadth of experience in procedures, examinations and equipment.

By the end of Year 2 the students will be able to perform simple routine skeletal examinations.

By the end of Year 3 the student will gain the clinical skills necessary to competently perform the procedures that require a contrast medium to be utilised to enhance, or outline, the anatomy being examined. The student will be required to demonstrate their clinical competency in specific contrast procedures and all skeletal examinations. The student will develop the critical thinking and clinical skills that are necessary when imaging trauma patients, paediatric patients and aged patients with debilitating disease processes. The student will also have observed and assisted with, but will not be required to demonstrate clinical competence in the areas of Angiography, Computed Tomography (CT) or Magnetic Resonance Imaging (MRI).

During the clinical education programme it is essential that the student demonstrates an ability to empathise with the patient and understands the necessities for the examination or procedure being performed. Students are expected to interpret images and maintain optimum radiographic quality.

Throughout Years 2 and 3 the student's clinical competence will be progressively assessed by university supervisors and an authorised clinical associate from the respective clinical centre. By the end of Year 3 the student must demonstrate the clinical competence required to perform as a beginning practitioner in diagnostic radiography requiring minimal supervision.

Nuclear Medicine Technology
The eleven weeks per year of Clinical Education in Years 2 and 3 provide an opportunity for the student to integrate the knowledge acquired in the professional subjects with the practical skills attained in the workplace. The introduction of clinical procedures in Clinical Education HB and IHB is closely synchronised with the acquisition of the related theory in Nuclear Medicine I and II respectively. Students will be placed in a variety of Nuclear Medicine Centres to give them a breadth of experience of procedures and instrumentation.

By the end of Year 2, the student will be able to perform simple routine procedures and data acquisition and will be aware of the role of the Nuclear Medicine Technologist as a member of a multi-disciplinary health care team.

By the end of Year 3, the student will be able to perform complex routine clinical procedures including computer acquisition and analysis, reconstitution and dispensing of radio pharmaceuticals, and quality control in all areas, including planar instrumentation, single photon emission computerised tomography and radiopharmacy. The student will also have observed and assisted with, but not shown competence in various non-routine procedures such as positron emission tomography, radiopharmaceutical cell labelling, in vivo tracer studies and bone mineral densitometry.

Throughout Years 2 and 3 the student's competence will be progressively assessed by university supervisors and authorised clinical assessors from the Nuclear Medicine Centres. By the end of the third year the student must demonstrate the clinical competence required to perform as Nuclear Medicine Technologist with minimum supervision.

Radiation Therapy
The eleven weeks per year of Clinical Education in Years 2 and 3 provide an opportunity for the student to integrate the knowledge acquired in the professional subjects with the practical skills attained in the workplace. The introduction of clinical procedures in Clinical Education EC and HIC is closely synchronised with the acquisition of the related theory in Radiation Therapy I and II respectively. Students will be placed in a variety of Radiation Oncology Departments to give them a breadth of experience of radiation therapy procedures and equipment.

By the end of Year 2, the student will be able to perform simple routine treatment, simulation and planning procedures, will form an empathetic relationship with patients, and will be aware of the role of the radiation therapist as a member of a multi-disciplinary health care team.

School of Medical Radiation Technology
By the end of Year 3, the student will be able to perform more complex routine treatment, simulation and planning procedures for a range of electromagnetic and particulate radiations. In addition, the student will have observed and assisted with, but not demonstrated competence in, performing various non-routine procedures such as stereotactic radiosurgery, intra-operative radiation therapy, brachytherapy and total body irradiation.

Throughout Years 2 and 3 the student's competence will be progressively assessed by University supervisors and authorised clinical assessors from the Radiation Oncology Departments. By the end of the third year the student must demonstrate the clinical competence required to perform as a radiation therapist with minimum supervision.

1995 Clinical Practice Dates

Bachelor of Applied Science (Medical Radiation Technology)

Year 1
June 26 - July 28 (3 weeks during this period)

Year 2
May 22 - July 7 (7 weeks)
September 11 - October 6 (4 weeks)

Year 3
January 23 - February 17 (4 weeks)
July 17 - September 1 (7 weeks)

Uniforms

Uniforms, identification badges and radiation monitoring badges must be worn by all students during clinical practice placements.

Female
White paramedical uniform or white blouse with collar and navy blue culottes
Closed flat heeled duty shoes (white or navy)
Cardigan, jumper or sleeveless woollen vest (white or navy)

Male
White "Ben Casey" Jacket, navy trousers
Closed black shoes
Cardigan, jumper or sleeveless woollen vest (white or navy)
Bachelor of Applied Sciences (Medical Radiation Technology) Conversion Course

This course is designed specifically for holders of the Diploma of Applied Science (Medical Radiation Technology) from the University of Sydney, or an equivalent Diploma from other recognised institutions. Other applicants may be considered if they satisfy the Head of School that they possess some form of qualification and experience which is of sufficient merit to warrant their admission to the course, with or without additional work. The course is offered in the Diagnostic Radiography, Nuclear Medicine Technology, and Radiation Therapy streams.

Students will enter the stream relevant to their primary qualification. The duration of the course is one year part-time.

Course Outline

The Course Outline for the Bachelor of Applied Science (Medical Radiation Technology) Conversion Course is presented in Table 10.1.

Subject Descriptions

18220 Radiation Biology and Protection

*Semester 1-10 hours
*Semester 2-10 hours

This subject provides an indepth study of the radiobiological effects and safe usage of ionising and non-ionising radiation common to all medical radiations.

18415 Medical Radiations Project

University Attendance - 12 hours
Independent Study - 88 hours

This subject provides the student with the opportunity to undertake an investigative project in a specific area of medical radiation technology.

18416 Advances in Radiography

*Semester 1-24 hours
*Semester 2-24 hours

This subject will introduce the student to current advances in imaging technology, such as film/screen systems, CT, MRI, MRA, DSA and angiography, digital acquisition system and ultrasound. The subject will also address the issue of the role of imaging technologies in cost effective patient management.

18417 Sectional Anatomy

*Semester 1-24 hours
*Semester 2-24 hours

This subject enables the student to identify normal anatomy in sectional images by creating a framework upon which an organ is identified due to its spatial relationships and appearances as displayed on diagnostic images such as basic radiographic studies, CT, MRI, ultrasound, nuclear medicine studies, SPECT or PET.

18418 Sonography

*Semester 1-24 hours
*Semester 2-24 hours

This subject provides an introduction to the study of the clinical application and practice of diagnostic ultrasound.
### Table 10.2  Graduate Diploma of Applied Science (Medical Ultrasonography)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course</th>
<th>Mode of Offer</th>
<th>Year 1</th>
<th>Year 2</th>
</tr>
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<td>Part-time, 2 Years</td>
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<th></th>
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<th>Hours</th>
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<tr>
<td>11454</td>
<td>Biological Sciences</td>
<td>42</td>
<td>42</td>
<td>-</td>
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<tr>
<td>18401</td>
<td>Physics and Instrumentation I</td>
<td>42</td>
<td>42</td>
<td></td>
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<tr>
<td>18402</td>
<td>Ultrasonography I</td>
<td>42</td>
<td></td>
<td>42</td>
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<tr>
<td>18403</td>
<td>Ultrasonography II</td>
<td>42</td>
<td></td>
<td>42</td>
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<tr>
<td>18404</td>
<td>Clinical Practice I¹</td>
<td>84</td>
<td>_</td>
<td>84</td>
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<td>18405</td>
<td>Physics and Instrumentation II</td>
<td>42</td>
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<td>18406</td>
<td>Ultrasonography III</td>
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<td>18407</td>
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<td>18408</td>
<td>Physics and Instrumentation III</td>
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<td>18409</td>
<td>Ultrasonography IV</td>
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<td>18410</td>
<td>Professional Issues</td>
<td>28</td>
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<td>18411</td>
<td>Clinical Practice HP</td>
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</table>

Notes:

¹ The order of clinical practice subjects may vary, according to the individual student’s requirements. The hours shown here are for Faculty planning purposes only. A condition of the course is that each student is engaged in Ultrasound investigation for at least 18 hours per week throughout the whole course.
Graduate Diploma of Applied Science (Medical Ultrasonography)

This course provides for the development of knowledge and skills relevant to the professional practice of medical ultrasonography. The course covers its physical principles and instrumentation, professional issues encountered in the field of ultrasonography and a wide variety of the applications of general ultrasonography. The duration of the course is two years part-time.

Admission Requirements

In order to qualify for admission to this Course, applicants should have completed:

1. an undergraduate course at diploma or degree level in medical radiation technology,
   OR
2. an undergraduate degree or diploma in a relevant area (e.g. nursing). Such applicants maybe advised to make up any deficiencies in identified areas of assumed knowledge (e.g. physics, medical imaging modalities),
   OR
3. an approved professional diploma, associate diploma or certificate in nuclear medicine technology, ultrasound or radiography plus completion of a designated qualifying programme,
   OR
4. some other form of qualification and experience which is considered by the Head of School to be of sufficient merit to warrant their admission to the Graduate Diploma Course. Such applicants may be required to complete a designated qualifying programme prior to admission.

AND

At least one year of relevant work experience, (in the field of their undergraduate studies),

AND

Be working in the field of medical ultrasonography for the duration of the Course.

Course Outline

The Course Outline for the Graduate Diploma of Applied Science (Medical Ultrasonography) is presented in Table 10.2

Subject Descriptions

Year 1

11454 Biological Sciences

This subject examines the general principles and mechanisms of the pathology of diseases which may be encountered in the practice of general ultrasonography. It also covers basic embryological development.
18408  Physics and Instrumentation III
Semester 2-14 hours
This subject examines advances in ultrasonic instrumentation and applications. It also introduces the student to non-diagnostic applications of ultrasound.

18409  Ultrasonography IV
Semester 2-42 hours
This subject examines in detail selected topics in general ultrasonography not previously studied. Areas include intracavity, interoperative and basic vascular applications.

18410  Professional Issues
Semester 2-28 hours
This subject introduces students to medico-legal and patient relationship issues which may be encountered in the field of ultrasonography. It also introduces students to the ethical principles in order to develop an understanding of professionally accepted behaviours and standards appropriate to the practice of medical ultrasonography within the broad context of the delivery of health care.

18411  Clinical Practice III
This subject covers the application of ultrasonography in the clinical environment, in order for the student to develop skills in ultrasonography as taught in Ultrasonography III.
Table 10.3  Graduate Certificate of Applied Science (Medical Ultrasonography)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Total Hours</th>
<th>Sem 1</th>
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<td>Biological Sciences</td>
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<tr>
<td>18420</td>
<td>Physics &amp; Instrumentation I</td>
<td>42</td>
<td>42</td>
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<td>18421</td>
<td>Ultrasonography I</td>
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<tr>
<td>18422</td>
<td>Ultrasonography II</td>
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<td>18423</td>
<td>Clinical Practice¹</td>
<td>126</td>
<td>63</td>
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</table>

**Note** ¹ The hours shown here are for Faculty planning purposes only. A condition of the course is that each student is engaged in Ultrasound investigation for at least 8 hours per week throughout the whole course.
Graduate Certificate of Applied Science (Medical Ultrasonography)

The Graduate Certificate of Applied Science (Medical Ultrasonography) is designed for people working in the field of clinical ultrasonography in rural or remote areas. The course aims to provide participants with an opportunity to develop their knowledge in the field of ultrasound or the upper abdomen, obstetrics and gynaecology. This program is designed to make use of independent learning methods incorporating distance education material as well as on-campus sessions to enable access for country ultrasonographers. The duration of the course is one year part-time.

Admission Requirements

In order to qualify for admission to this Course, applicants should have completed:

i) An undergraduate degree or diploma level in medical radiation technology.
   OR
b. An undergraduate degree or diploma in a relevant area (e.g. nursing). Such applicants may be advised to make up any deficiencies in identified areas of assumed knowledge (e.g. physics, medical imaging modalities).
   OR
c. An approved professional diploma, associate diploma or certificate in nuclear medicine completion of a designated qualifying programme.
   OR
d. Some other form of qualification and experience which is considered by the Head of School to be of sufficient merit to warrant their admission to the Graduate Diploma Course. Such applicants may be required to complete a designated qualifying programme prior to admission.

AND

ii) At least one year of relevant work experience, (in the field of their undergraduate studies)
   AND
iii) Working in the field of medical ultrasonography for the duration of the Course.

Admission is restricted to applicants who, because of remoteness, are unable to enter the Graduate Diploma of Applied Science (Medical Ultrasonography).

Course Outline

The Course Outline for the Graduate Certificate of Applied Science (Medical Ultrasonography) is presented in Table 10.3.

Subject Descriptions

11476 Biological Sciences
Semester 1-42 hours
This subject examines the general principles and mechanisms of the pathology of diseases which may be encountered in the practice of general ultrasonography. It also covers basic embryological development.

18420 Physics and Instrumentation I
Semester 1-42 hours
This subject presents the basic physical principles and instrumentation of diagnostic ultrasound. It includes methods of image production, interpretation, recording techniques, the principles of grey scale echography and adjustment procedures for relevant operation controls. The subject also covers the recognition of artifacts within an image and the ability to separate these artifacts from anatomy or disease, biological effects which may occur with the interaction of ultrasound and biological tissue, and the principles of Doppler and Colour Flow Imaging.

18421 Ultrasonography I
Semester 2-42 hours
This subject examines in detail ultrasonography of soft tissues in the upper abdomen.

18422 Ultrasonography II
Semester 2-42 hours
This subject examines in detail ultrasonography of soft tissues in the male and female pelvis and in obstetrics technology, ultrasound or radiography PLUS

18423 Clinical Practice
This subject covers the application of ultrasonography in the clinical environment, in order for the student to develop skills in ultrasonography as taught in Ultrasonography I and II.
The Table below refers to the standard programme for full-time pass entry students. This programme may alter depending on the entry level of the student.

<table>
<thead>
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<th>Course Code</th>
<th>Mode of Offer (for Pass Entry Level Students)</th>
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<tr>
<td>1829</td>
<td>Special Programme (for Master Qualifying Students)</td>
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<td>1827</td>
<td>Full-time, minimum 2 years</td>
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<td>1828</td>
<td>Part-time, minimum 3 years</td>
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### Full-time Mode

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<th>Total Hours</th>
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<td>Elective Research Subject†</td>
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<td>18502 Thesis Development B</td>
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<td>18503 Masters Research Thesis</td>
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<th>Year 2</th>
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<tbody>
<tr>
<td>18503 Masters Research Thesis</td>
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### Part-time Mode

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### Notes

† Elective Research Subjects: Students select one of the following subjects (subject to sufficient student numbers) in consultation with their supervisors:

- 08501 Epidemiological Research
- 08502 Evaluation Research
- 08503 History and Philosophy of Scientific Methodology
- 10504 Quantitative Research Methods
- 10505 Qualitative Research Methods
- 10514 Survey Research Methods
- 11501 Biological Measurement and Analysis
- 18504 Research Elective Independent Study
Master of Applied Science 
(Medical Radiation Technology)

The Masters of Applied Science (Medical Radiation Technology) course is a research degree. The course is designed to provide opportunity for research and scholarship in Medical Radiation Technology.

Admission Requirements

Applicants may enter the researchmasters programme with any of the following requirements:

i) A Bachelor degree in an appropriate discipline from an Australian tertiary institution OR

ii) A Bachelor degree in an appropriate discipline from an overseas institution equivalent to an Australian Bachelor degree. OR

iii) A Diploma of Applied Science and a Post Graduate Diploma of Ultrasound.

A student entering through either (i), (ii) or (iii) must also additionally be able to demonstrate a capacity to pursue graduate studies and would normally have completed a minimum of twelve months professionally relevant post graduate experience. Applicants in the above categories, particularly for students entering through sections (iii), may be required to complete a qualifying course programme.

Time Limits

The standard course comprises enabling research subjects, thesis development subjects and research thesis. Students who enter the course with adequate research preparation may be exempt from completing the enabling subjects, ie. 10503 Advanced Research Methods, 18501 Thesis Development A and 18502 Thesis Development B and the elective Research Subject. Usually these students would have completed an approved bachelor degree programme at honours level. The minimum length of the course for such students is one year full time or two years part time.

Course Outline

The Course Outline for the Master of Applied Science (Medical Radiation Technology) is presented in Table 10.4.

Subject Descriptions

Enabling Subjects

10503 Advanced Research Methods

Total - 42 hours

In this subject students will extend and consolidate the research methods and statistical skills acquired at the undergraduate level. This subject provides the underpinning for additional subjects related to research to be taken at the postgraduate level.

18501 Thesis Development A

Total - 56 hours

This subject is designed to orient students to study at Masters level and to give a formal structure to support the development of a research proposal. It also provides a forum in which to exchange and test ideas pertaining to the development of the research proposal.

18502 Thesis Development B

Total - 42 hours

This subject continues to give support to students who are setting up and running a research project. It provides opportunities for students to report on work in progress, defined developments and procedures to be used in the project and supports the production of specific sections of the research thesis.

Elective Research Subjects

Total - 42 hours

For elective subject descriptions see Appendix 1.

Thesis

18503 Masters Research Thesis

The successful submission of a research thesis is the ultimate objective of the course. This process will necessitate a collaborative endeavour between the student and the supervisor(s).
The School of Occupational Therapy was a foundation school of Cumberland College of Health Sciences when it was established as the N.S.W. College of Paramedical Studies in 1973. Prior to that year the education of occupational therapists was the responsibility of the professional association. The first training programme was commenced in 1941 under the auspices of the N.S.W. Branch of the Australian Physiotherapy Association. In 1947, the newly formed Australian Association of Occupational Therapists assumed responsibility for the education of occupational therapists in New South Wales and through the New South Wales Association of Occupational Therapists retained that responsibility until 1973.

One of the first undertakings of the School of Occupational Therapy was to raise the level of the occupational therapy course from diploma to degree in line with other occupational therapy courses in Australia. The Bachelor of Applied Science (Occupational Therapy) was introduced in 1976 with an Honours option becoming available from 1991. In 1985, the School introduced the Associate Diploma in Diversional Therapy, the first formal education programme for diversional therapists in Australia. In 1995, a three year Bachelor of Applied Science (Diversional Therapy) will be offered subject to approval by University Senate. The School has developed an articulated programme of postgraduate study. This includes PhD level studies, two Master degree courses, one by research, the other by course work and a Graduate Certificate which focuses on speciality areas of practice in Occupational Therapy.

Further information about the School's programmes may be obtained from the Administrative Assistant on 646-6386, who can direct enquires to relevant staff.

Head of School
Associate Professor
Colleen Mullavey-O’Byrne
### Table 11.1  Associate Diploma of Applied Science (Diversional Therapy)

<table>
<thead>
<tr>
<th>Year 2 (last offered in 1995)</th>
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<td>Professional Practice II</td>
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<td>Recreational Activities II</td>
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<td>Inter-Semester &amp; Semester 2</td>
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**Course Code:**

- 1508

**Mode of Offer:**

- Full-time, 2 years
Associate Diploma of Applied Science (Diversional Therapy)

Diversional Therapy is concerned with recreational and leisure activities within health care and community environments. Where barriers to independent participation exist, the diversional therapist facilitates client involvement and promotes effective and satisfying engagement in activities which have intrinsic value for the individual client.

Admission Requirements
There are no specific pre-requisites to the Associate Diploma of Applied Science (Diversional Therapy). Please refer to the General Admission Requirements in Chapter 3.

Course Outline
Associate Diploma of Applied Science (Diversional Therapy)

The Course Outline for the course is presented in Table 11.1.

Subject Descriptions

Year 2
(for students who commenced the Assoc. Dip.App.Sc(DT) in 1994 or earlier)

10238 Behavioural Science II
Semester 1-28 hours
Semester 2-24 hours
The subject includes units covering developmental psychology, the psychology of disability, the psychology of ageing and the sociology of ageing.

11285 Biological Sciences II
Semester 1-28 hours
Semester 2-24 hours
The first of three units in this subject aims to cover the biological processes and changes in the human organism over the lifespan. In the second unit, an introduction to the pathophysiology and pharmacology of the body systems will be given together with introduction to the principles of cross-infection and the operation of the immune system. The physiological changes with exercise and exercise programmes for healthy lifestyle will be presented in the last unit.

15286 Integrated Studies
Semester 2-48 hours
This subject aims to: provide the student with a simulated diversional therapy setting in which to consolidate and integrate previous learning; provide the students with the opportunity to critically evaluate their own work independently; provide the students with a supported environment in which to explore alternative approaches to client, programme and department management; encourage students to take an active role in their professional development; and provide the students with the opportunity to develop skills and confidence in professional writing and presentation.

15292 Client Care and Management II
Semester 1-28 hours
Semester 2-36 hours
This subject will provide students with a model to use when developing strategies to overcome barriers to participation in recreational programmes experienced by clients. Students will learn specific strategies for overcoming particular barriers to participation.

15293 Diversional Therapy Facilitation Skills II
Semester 1-56 hours
Semester 2-24 hours
This subject provides opportunity for students to continue developing skills regarded as necessary for the facilitation of client's involvement in effective diversional therapy programmes. Basic skills required to design effective diversional therapy programmes are developed. Included are concepts and skills for analysing tasks, constructing teaching sequences and developing learning strategies. Tactics and strategies of group instruction appropriate to diversional therapy settings are examined and students' knowledge and skill in facilitating group processes within these situations are integrated through the development of specific diversional therapy programmes.

15294 Professional Practice II
Semester 1-42 hours
Semester 2-12 hours
A broad base of current issues and concepts which may directly or indirectly influence the practice of diversional therapy is developed at the outset. Students are provided with the opportunity to: examine the nature of resources and finances available within the diversional therapy context and to develop strategies for the appropriate management of these resources; develop specific skills necessary for the effective and efficient administration of a diversional therapy programme; consolidate understanding of diversional therapy and conceptualise a personal definition of diversional therapy are provided.
15295  Recreational Activities II
Semester 1-98 hours
Semester 2-72 hours
Students will be given the opportunity to develop their skills in a variety of craft and expressive activities used in diversional therapy. Students will develop an understanding of the application of recreational activities across the age span.

Electives in recreation, arts and crafts allow students to develop skills in these activities for use in diversional therapy.

15296  Field Experience II
Total - 280 hours
This subject provides opportunities for students to integrate academic teaching with diversional therapy practice. Students are expected to demonstrate the ability to plan, implement, and evaluate programmes effectively, and to demonstrate an awareness of professional practice and ethics when working in the health care system. This subject includes a three-week placement completed pre-semester 1; a two-day camp which can take place any time after Field Experience I; and a four-week block placement during the inter-semester recess.
### Table 11.2 Bachelor of Applied Science (Diversional Therapy)

<table>
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<tr>
<th>Year</th>
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(to be first offered in 1995)

(to be first offered in 1996)

(to be first offered in 1997)
Bachelor of Applied Science (Diversional Therapy)

Diversional Therapy is concerned with recreational and leisure activities within health care and community environments. Where barriers to independent participation exist, the diversional therapist facilitates client involvement and promotes effective and satisfying engagement in activities which have intrinsic value for the individual client.

Admission Requirements

There are no specific pre-requisites to the Bachelor of Applied Science (Diversional Therapy). Please refer to the General Admission Requirements in Chapter 3.

Course Outline

Bachelor of Applied Science (Diversional Therapy)

The Course Outline for the course is presented in Table 11.2.

Subject Descriptions

Year 1
(to be offered in 1995)

101C2 Introduction to Sociology
Semester 1-56 hours
Sociological perspectives and concepts are introduced as a basis for further analysis. Theories from various paradigms are applied to aspects of contemporary Australian society and its major institutions including health care. Comparative approaches are taken with other societies. Major variables of social class, gender, age and ethnicity are critically examined and related to patterns of health and illness.

101C3 Psychology I
Semester 2-56 hours
This subject provides a general introduction to psychology. It includes the topics of motivation, learning, perception, intelligence, personality, and developmental psychology.

101C4 Sociology of Community and Family
Semester 2-28 hours
Pre-requisite: Introduction to Sociology
This subject develops an understanding of urbanisation and of the concept of community. It examines recent Australian community studies analysing the characteristics of neighbouring and friendship ties. It investigates the nature of networks in terms of size, intensity and homophily and the support likely to be offered by networks in times of dependency occasioned by chronic ill-health, disability or sudden health crises. Patterns and agencies of formal and informal support, and changing family patterns are focuses of this unit.

11183 Biological Sciences I
Semester 1-28 hours
Semester 2-28 hours
This subject is an introduction to the systems of the body using the theme of homeostasis and will provide the basis for further study of health and illness.

15143 Professional Practice I
Semester 1-28 hours
This subject provides students with a conceptual basis for the practice of diversional therapy. Concepts which influence the development of diversional therapy are examined and the role of the diversional therapist explored. A comparative analysis of professions which provide similar services to diversional therapy, e.g. therapeutic recreation, will be made. Legal and ethical issues related to duty of care will be identified and discussed.

15148 Management and Computer Skills
Semester 2-28 hours
Pre-requisite - Professional Practice I
This subject focuses on two areas of professional practice. First, students are provided with opportunities to develop specific skills in: financial management within the diversional therapy context; documenting and accessing client information; programme co-ordination; submission and report writing; and, resume writing. Second, students are introduced to computer systems and an overview of applications relevant to diversional therapy.

15144 Theories of Leisure and Recreation
Semester 1-28 hours
This subject provides students with an introduction to leisure theory and the role of leisure and recreation in contemporary society. Students will draw on the literature and their own personal experience to identify the benefits of leisure and recreation to the individual.

15147 Introduction to People with Disabilities
Semester 1-28 hours
This subject will provide students with an understanding of the demands of the various components of recreational activities, possible deficits in clients functioning in these components and the effects of these deficits which may lead to barriers in a client's participation in a recreational programme.

Students will explore and identify the impact of a motor cognitive or affective deficit on a client's ability to participate in recreational activities. Students will utilise a framework for evaluation procedures which include: the client, the activity and the condition. They will develop the skills required to conduct client assessments and perform activity analysis procedures. Therefore developing the ability to innovately tailor recreational activities to individual client needs.
15152 Issues which Influence Client Care

Semester 2-28 hours

The aim of this subject is to introduce students to a range of issues which influence caregiving within the context of diversional therapy.

Students will develop specific strategies to help overcome barriers to participation in recreational activities.

Students will be introduced to a three-dimensional model which includes the client, activity and environment which will be used to explore the following topics in this subject: barriers to participation in recreational activities, physical environments and space, segregation versus integration, health status of clients, sex/gender, ability, culture, race and ethnicity, control in the environment, loss and grief, leisure values, choice, risk taking and environmental issues.

15145 Creative Arts in Recreation: Visual Arts

Semester 1-28 hours

This subject will provide the students with the opportunity to develop their understanding of various philosophies, disciplines and practices of visual arts in health and disability services. Students will develop practical skills and also study areas such as creativity, art therapy, adapting arts activities, community arts and working with groups.

15153 Field Experience I

This subject will provide students, in workshop sessions, with an opportunity to understand their roles and responsibilities during field experience. The one week field experience placement will enable the student to explore the function of the placement centre and observe professional practice within that setting.

15146 Communication Theory and Practice

Semester 1-28 hours

This subject introduces students to basic knowledge and skills necessary for accurate and effective communication in a professional context.

15150 Leadership and Group Dynamics

Semester 2-28 hours

This subject covers the basic concepts relating to the nature and function of groups. Students are given the opportunity to develop leadership skills necessary for them to work effectively with clients and with other health professionals.

15151 Introduction to Teaching and Learning

Semester 2-28 hours

In this subject students are introduced to key learning theories. Special consideration is given to the way each of these theories contributes to our understanding of how diversional therapists can address the learning needs of their clients.

15149 Creative Arts in Recreation: Expressive Arts

Semester 1-28 hours

This subject provides students with the opportunity to develop a theoretical and practical understanding of the way in which the expressive arts are used in health and disability services. The areas covered include: Reminiscing, drama, sensory activities, storytelling and music. Students also develop skills in thinking creatively and voice production.
### Table 11.3  Bachelor of Applied Science (Occupational Therapy)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Mode of Office</th>
<th>Total Hours</th>
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<th>Year 2</th>
<th>Year 3 (to be first offered in 1995)</th>
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### Honours Program - Additional Subjects

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**Notes**

<sup>1</sup> Honours students may elect to take Research and Research Method Electives in years 3 and 4. Options include:

- 08501 Epidemiological Research
- 08502 Evaluation Research
- 08503 History and Philosophy of Scientific Methodology
- 10504 Quantitative Research Methods
- 10505 Qualitative Research Methods
- 15483 Research in Occupational Therapy Clinical Practice
- 15465 Single System Research Design and Evaluation Methods
- 15479 Research Design & Methods for Therapists
### Table 11.3.1 Bachelor of Applied Science (Occupational Therapy)

<table>
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<tr>
<th>Course Code</th>
<th>Course Description</th>
<th>Mode of Offer</th>
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(for students who commenced First Year of the 3½ Year Course in 1992 or earlier)

#### Year 4 (last offered in 1995)

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**Honours Programme - Additional Subjects**

#### Year 4 (last offered in 1995)

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<th>Course Code</th>
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**Notes**

\(^1\) Honours students are required to take 42 hours of the subject as a Research Elective. Options include:

- 08501 Epidemiological Research
- 08502 Evaluation Research
- 08503 History and Philosophy of Scientific Methodology
- 10504 Quantitative Research Methods
- 10505 Qualitative Research Methods
- 15483 Research in Occupational Therapy Clinical Practice
- 15465 Single System Research Design and Evaluation Methods
- 15479 Research Designs & Methods for Therapists
Bachelor of Applied Science (Occupational Therapy)

Occupational Therapy involves a study of human occupations in the areas of self-care, productivity and leisure, and the management of the adaptive behaviour required to perform occupational roles or activities. This study of human occupations entails analysis of activities or occupations and knowledge of the cognitive, sensory-motor, biomechanical, and psychosocial processes required to perform activities or occupations. The practice of occupational therapy applies knowledge of occupations and human processes to help people develop adaptive behaviours so that they may manage and interact with their environment.

Occupational therapists work with people whose occupational performance has been threatened or impaired by developmental deficits, the ageing process, physical injury or illness, and psychological or social disability. Occupational therapists work in health care and community settings, educational facilities, work environments and as private practitioners.

Admission Requirements

There are no specific admission requirements to the Bachelor of Applied Science (Occupational Therapy). Please refer to the General Admission Requirements in Chapter 3.

Course Outline

The Course Outlines for the Bachelor of Applied Science (Occupational Therapy) are presented in Tables 12.2 and 12.2.1.

Subject Descriptions

Year 1

(for students commencing new 4 year course in 1995)

101A9 Introductory Psychology

Semester 1-42 hours

This course introduces students to major areas of psychology, perception, motivation, learning, developmental psychology, intelligence and personality.

101B1 Cognitive Functioning

Semester 2-28 hours

This course will examine the cognitive functioning of intact and developmentally disabled individuals and the logic, theory and methodology of cognitive experimentation applied to functions such as perception, visual and auditory recognition, attention, memory and concept formation.

101B2 Management of Behaviour

Semester 2-28 hours

This course involves the application of learning principles in occupational therapy settings to enhance therapeutic effectiveness. Techniques for increasing desired behaviours, decreasing undesired behaviours and models for understanding behaviour in therapy and rehabilitation settings are discussed. Motor skill learning is approached from an information processing perspective and the conditions of practice and feedback which promote skill learning are examined.

11176 Introductory Human Biology

Semester 1-56 hours

This subject will present aspects of the basic chemistry, biochemistry and physiology which underlie the normal function of the human body. The topics considered include general cellular structure and function, cell metabolism, protein synthesis, cell division, the principles of homeostasis, genetics and blood.

11177 Musculoskeletal Anatomy

Semester 1-26 hours

Semester 2-44 hours

This subject examines the structure and function of the musculoskeletal system. This subject includes laboratory classes where tissues from human cadavers are examined in detail. Attendance at such classes is required for the subject.

11178 Introductory Neurobiology

Semester 1-28 hours

Co-requisite: Introductory Human Biology (11176)

This subject introduces the student to the basic structure and function of the nervous system, and physiology of nerve, receptors, synapses and neuromuscular transmission. The structure, contractile process, muscle mechanics and biochemistry of skeletal and smooth muscle are covered. The subject includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

11179 Neurobiology I

Semester 2-28 hours

Pre-requisite: Introductory Neurobiology (11178)

This subject covers spinal reflex mechanisms, as well as the structure and function of the somatosensory system. There is also a discussion of the autonomic nervous system. The subject includes laboratory classes in which human cadavers are studied; attendance at such classes is required.
15136 Human Occupations IA  
Semester 1-42 hours  
This subject introduces students to the concept of purposeful occupation in areas of self-maintenance, productivity, leisure and rest. The biological and socio-technological evolution of human occupations is explored. Students will be given the opportunity to develop skills in methods used to assess, maintain, restore and enhance mobility skills and basic self-care tasks. Appropriate assessment and intervention strategies are presented for clients with difficulties performing personal self-care tasks.

15137 Human Occupations IB  
Semester 2-42 hours  
This semester continues with self-maintenance occupations, addressing the areas of self-maintenance tasks within the home and the community environment. Students will explore the effects of physical, psychosocial and cognitive dysfunction on personal care, home management and community skills and examine various occupational therapy assessment and intervention strategies.

15138 Components of Occupational Performance IA  
Semester 1-56 hours  
This subject introduces students to the components which underpin the performance of human occupations. Biomechanical, psychosocial, cognitive and sensorimotor components are defined and their relationship to human performance of occupations explored. Principles of psychosocial practice focusing on social interaction and helping skills which underpin person to person occupational therapy assessment and intervention in all areas of practice will be established.

15139 Components of Occupational Performance IB  
Semester 2-56 hours  
The biomechanical performance component is examined in order to identify and intervene where human performance deficits exist in this area. Principles of occupational therapy assessment and intervention in the area of biomechanical performance are established in order to restore, maintain and enhance human occupational performance. Principles of learning and systematic instruction which underpin occupational therapy assessment and intervention in all areas of practice will be established.

15140 Occupational Therapy Theory and Process I  
Semester 1-28 hours  
Semester 2-28 hours  
This subject examines the theoretical, philosophical and historical foundations underlying current occupational therapy practice. The student is introduced to a self directed problem solving process which can be applied to occupational therapy practice and which will form the basis for learning in other parts of the curriculum.

15141 Occupational Role Development I  
Semester 1-28 hours  
Semester 2-28 hours  
This subject introduces the student to occupational role development across the lifespan. It focuses specifically on development of occupational roles in infancy, childhood and adolescence within a sociocultural context. Role transitions and areas of occupational role performance will be described. Adaptive behaviours necessary for competent role performance will be presented. Development of performance components required for self-maintenance school/productivity, play/leisure, and rest occupations during this stage will be examined from various theoretical perspectives.

15142 Fieldwork Education I  
Semester 1-4 hours  
Inter-semester break - 75 hours  
Semester 2-1 hour  
This subject has 4 hours preparatory lectures and 1 hour debriefing session to facilitate students' attendance at a 2 week orientation and observation block placement in a professional setting. It aims to provide students with the opportunity to interact with clients, and to promote their awareness of the range and scope of occupational therapy services, and the role of the health care team.

Year 2

15297 Human Occupations HA  
Semester 1-28 hours  
The subject will focus on occupations as therapy. The therapeutic use of activities will be addressed as part of overall intervention strategies. Students will be given the opportunity to analyse activities in detail, identifying the therapeutic potential inherent in activities; how they may be adapted for different populations and used as a form of therapeutic intervention.

15298 Human Occupations IIB  
Semester 2-42 hours  
The focus of this subject is on Play and School Occupations in infancy and school age children. Students will be given opportunity to analyse these occupational areas and to develop skills in the selection of occupational therapy intervention strategies to improve a child's occupational performance in play and at school.

15299 Components of Occupational Performance HA  
Semester 1-42 hours  
Sensorimotor component performance is examined in order to identify and intervene where human performance deficits exist in this area. Principles of occupational therapy assessment and intervention in the area of sensorimotor performance are established in order to restore, maintain and enhance human occupational performance.
152A1 Components of Occupational Performance IIB
Semester 2-42 hours
This subject focuses on two component areas of occupational performance. First, principles of psychosocial practice which underpin occupational therapy assessment and intervention in groupwork practice will be established. Second, cognitive component performance is examined in order to identify and intervene where human performance deficits exist in this area. Principles of occupational therapy assessment and intervention in the area of cognitive performance are established in order to restore, maintain and enhance human occupational performance.

152A2 Occupational Therapy Theory and Process HA
Semester 1-28 hours
This subject expands the students' understanding of occupational therapy theory and process introduced in Occupational Therapy Theory and Process I, as it relates to practice. Students will examine occupational therapy literature and identify the philosophical assumptions, relevant scientific and educational theories and the range of practice models and frameworks available.

152A3 Occupational Therapy Theory and Process IIB
Semester 2-28 hours
This subject explores issues concerning assessment of individual and group performance in occupational therapy. The topic areas covered will be standardised and non-standardised tools and their features, needs analysis, outcome measures and quality assurance. Aspects of professional practice relating to selection, location, ethical application, administration, scoring and interpretation of instruments will also be covered.

152A4 Occupational Role Development II
Semester 2-28 hours
This subject examines occupational role development across the lifespan. It focuses specifically on development of occupational roles in adulthood and in the elderly within a sociocultural context. Role transitions and areas of occupational role performance will be described. Adaptive behaviours necessary for competent role performance will be presented. Development of performance components required for self-maintenance, productivity, leisure, and rest occupations during this stage will be examined from various theoretical perspectives.

152A5 Fieldwork Education II
Semester 1-1 hour
Inter-semester break: 113 hours
Semester 2-1 hour
This subject has 1 hour each for briefing and debriefing to facilitate students' 3 week block placement in a professional setting. It provides students with the opportunity to apply specific skills learned in the School of Occupational Therapy to occupational therapy practice for clients, guided by the fieldwork supervisor.

10293 Australian Society
Semester 1-2 hours
This course aims to develop an understanding of basic sociological theories and concepts. It examines the social structures, institutions and processes relevant to analysing Australian and other societies as well as the organisation and delivery of health care.

10294 Sociology of Health I
Semester 2-56 hours
This subject is comprised of two strands: First, health medicine and society; second, work, organisations and clients. Health, medicine and society considers health care issues in terms of four sociological perspectives. Work, organisations and clients integrates organisation dimensions and problems of therapy, aspects of work and non-work and sociological approaches to practitioner-client relationships.

10295 Research Methods and Designs
Semester 1-42 hours
This subject aims to introduce students to the concept of scientific research by defining the key approaches, methods and designs by which research is undertaken, particularly within the health professions. It incorporates an outline of the research process which will guide students through the completion of a simple descriptive study. Students will develop basic skills related to instrument design, data collection and data analysis using descriptive statistics.
Research Methods and Statistics
Semester 2-42 hours
This subject is designed to provide the health science student with an understanding of basic research and statistical methods and practical applications relevant to clinical practice. The focus is on statistical reasoning and extracting meaning from data. Extensive use is made of modern computer software to achieve this. The broad areas discussed are: methods for data exploration and description; strategies for data collection; statistical inference and estimation. Statistical description methods comprise numerical and graphical methods for one and two variable models including control charts and regression models. Rationales for sampling, observational and experimental designs for data production are discussed. Inferential methods including estimating with confidence and tests of significance are introduced for one and two samples using both the normal and student distributions.

Neurobiology II
Semester 1-56 hours
Pre-requisite: Neurobiology I (11179)
This subject considers the anatomy and physiology of special sensory systems and the control and integration of somatic motor activity and of autonomic function. The higher functions and adaptive properties of the nervous system are also examined, as well as the physiology of pain and pain relief techniques. Considerable emphasis is placed on the anatomical and physiological basis of neurological problems throughout the subject. The subject includes laboratory classes where tissues from human cadavers are examined in detail. Attendance at such classes is required for the subject.

Biomechanics for Occupational Therapy
Semester 2-28 hours
Concepts of biomechanics will be applied to situations which have specific implications for occupational therapy intervention in activities of daily living and the workplace. Included in these applications are the use of electromyography, lifting techniques, workplace and hand tool design, gait and strength training.

Body Systems I
Semester 2-28 hours
The anatomy and physiology of the cardiovascular and endocrine systems are covered. There is also an introduction to the body fluids. This subject includes laboratory classes where tissues from human cadavers are examined in detail. Attendance at such classes is required for the subject.

Human Occupations III
Semester 2-28 hours
Leisure as an area of occupational performance is examined in this subject. The focus is on individual use and development of satisfying leisure time. Students will be given the opportunity to explore the importance of leisure occupations through the lifespan and examine how occupational therapists may assess and facilitate client involvement in positive leisure experiences.

Components of Occupational Performance III
Semester 2-56 hours
This subject focuses on two component areas of occupational performance. First, the psychosocial performance component is examined in order to identify and intervene where human performance deficits exist in this area. Principles of occupational therapy assessment and intervention in the area of psychosocial performance are established in order to restore, maintain and enhance human occupational performance. Second cognitive component performance is examined in order to identify and intervene when human performance deficits exist in this area to further restore, maintain and enhance human occupational performance.

Occupational Therapy Theory and Practice III
Semester 2-42 hours
This subject aims to link occupational therapy theory to specific practice issues through the application of clinical reasoning and decision making processes. Clinical judgements made in consequence of the clinical reasoning process will be explored from documentation, legal, ethical and quality assurance perspectives.

Fieldwork Education III
Semester 1 - 526 hours
Semester 2 - 1 hour
In addition to one hour each for briefing and debriefing, this subject has two 7 week block placements in different areas of practice: Fieldwork Education 3A and 3B. It provides students with the opportunity to apply theory and skills learned in the School of Occupational Therapy to the whole process of occupational therapy practice - assessing, planning, implementing, evaluating, reporting, recording, and modifying intervention - for clients in professional settings under supervision of the fieldwork supervisor.
103A4 Health Psychology  
**Semester 2-42 hours**  
Students will select three of the following four units:  
- Abnormal Psychology examines theories, classifications and treatment of abnormal behaviour.  
- Psychology of Physical Disability explores community attitudes toward disability (causes, effects, ethnic differences, strategies for change) and the experiences of living with disability (e.g. problems associated with different types of onset, problems of social interaction, sexuality, ageing with a disability).  
- Life Stress examines usage of the term "stress" and models of stress that underlie such usage. Psychophysiological aspects of the stress response are discussed, and the relationships of stress to various illnesses and disorders is considered. Effects of experience and environmental factors on stress are discussed in the context of both minor and major events. Coping strategies are described, and evidence relating these to functioning and well-being is evaluated.  
- Pain Perception examines the relationship between extent of injury and amount of pain; acute and chronic pain; gate control theory; measurement of pain; operant pain; effects of behavioural pain treatment programs; personality; activity-level and chronic pain; cancer; rheumatic and RSI pain.

103A3 Sociology of Health II  
**Semester 2-42 hours**  
This subject is comprised of two strands: First, culture, disease and healing offers a cross-cultural perspective; second, minorities and community integrates sociological approaches to community organisation, ethnic and other minorities and reactive processes involving groups and individuals.

11382 Body Systems II  
**Semester 2-70 hours**  
Covers the anatomy and physiology of the respiratory, renal, digestive and reproductive systems. There is also an introduction to the immune system and some aspects of pharmacology.

**Year 4**  
(for students who commenced first year of the 31/2 year course in 1992 or earlier)

15426 Selected Studies  
**Semester 1-110 hours**  
This subject is structured to allow students to undertake study in a number of selected topics of particular interest to them for their future professional employment. The subject is taught co-operatively by the School of Occupational Therapy, Department of Behavioural Sciences and Department of Biomedical Sciences.

15427 Occupational Therapy Fieldwork IV  
**426 hours**  
This subject has two 6 week block placements. One occurs prior to and during the first three weeks of Semester 1 and the other, after Semester 1. The student will consolidate and further develop skills necessary for safe, effective delivery of occupational therapy services. Students will also develop a strong sense of individual and corporate professional identity and a knowledge and understanding of the organisation in which they are placed.

The final block placement offers experiences in a wider variety of occupational therapy settings, both traditional as well as in specialised areas. Students may request a placement in a less traditional context, provided they have previously fulfilled essential experiences. During the final placement, emphasis will be on safe and effective delivery of occupational therapy services, congruent with expectations for a beginning practitioner.

**Honours Programme**  
The Occupational Therapy Honours course consists of eight semesters. Honours students will enrol in pass subjects in years one and two and three. In year 3, Honours students are given flexibility regarding the timing of fieldwork III placement. In year 4, honours students will have opportunities to pursue thesis related work in the following subjects: Human Occupations IV, Components of Occupational Performance IV, and Occupational Therapy Theory and Process IV and elective study. Honours students are given flexibility regarding the timing of the fieldwork IV placements.

In addition to pass subjects, honours students will be required to enrol in the following:

15378 Honours Research Seminar I  
**Semester 1-14 hours**  
**Semester 2-14 hours**  
This seminar is designed to assist Honours students with the development of their individual research projects for completion of their thesis in Year 4. At the completion of this full-year subject, each student will have prepared a written proposal for his/her research project. Students who complete this subject but who then return to the Pass Program will be regarded as having completed Evaluation of Occupational Therapy Program.
15383 Honours Proposal Development
This subject is designed to assist honours students develop their research proposal. Each student designs a research proposal in collaboration with an academic supervisor.

Honours Programme
(for students who commenced first year of the 3 1/2 year course in 1992 or earlier)

General policies relating to the Honours Programme are presented in Chapter 3. For information specific to the Occupational Therapy Honours Programme students are advised to contact the Secretary for the School of Occupational Therapy.

The Occupational Therapy Honours course consists of eight semesters. Students in the Honours course complete all Years 1 and 2 subjects in the Pass course, most subjects from Years 3 and 4 as well as the following:

15442 Honours Research Seminar 2
Semester 1-14 hours
Semester 2-14 hours
This seminar is designed to assist and support Honours students with their ongoing research project, to enable them to develop problem-solving strategies in the conduct of research and to develop their skills in oral presentation of research projects.

15443 Individual Research Consultation
Semester 1-14 hours
Semester 2-14 hours
This subject provides a continuing opportunity for Honours students to discuss with relevant staff concerns regarding data analysis and interpretation related to their individual projects.

15445 Honours Thesis
This subject provides Honours students with the opportunity to undertake a supervised research project in an area of occupational therapy. As part of this and the other Honours subjects, each student designs and implements an approved research project and submits a thesis describing the project and its implications. In completing the research and thesis, each student works closely with an academic staff member who serves as the supervisor.
(No specialty)
This generic track within the graduate certificate course will enhance the students knowledge, skills and attitudes in planning, implementing and evaluating contemporary occupational therapy service provision to clients of any age whose occupational role and task performance has been compromised. The content of the Graduate Certificate of Applied Science (Occupational Therapy) generic track consists of those subjects from the specialty tracks which are available at the time of enrolment and selected by the student.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Total Hours</th>
<th>Sem 1</th>
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<tbody>
<tr>
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<td>Core Subject</td>
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</tbody>
</table>

Notes
1 One elective only required to satisfy the requirements of the course. This elective can be taken in either Semester 1 or Semester 2. Electives include those offered for the specialty tracks and: Occupational Therapy Clinical Specialty
Graduate Certificate of Applied Science (Occupational Therapy)

The Graduate Certificate of Applied Science degree (Occupational Therapy) is designed to provide specific professional development for occupational therapists who wish to extend the knowledge, skills and attitude required by their professional roles of Practitioner and Learner/Teacher. It contains several clinical speciality track options as well as a no-speciality option. Work completed in any graduate certificate track may be credited against the requirements of the master's by coursework offered by the School. The School will decide which tracks are available in any one year.

Admission Requirements

To qualify for admission to this Graduate Certificate course conducted by the School of Occupational Therapy, applicants shall:

a) Possess an award of Bachelor of Applied Science (Occupational Therapy) from the Faculty of CCHS University of Sydney;
   OR

b) Possess such qualifications as are deemed equivalent to (a) and/or (b);
   OR

c) Possess an award of Diploma of Occupational Therapy from a recognised educational body and other evidence of general and/or professional qualifications as will satisfy the Graduate Studies Committee of the Faculty of Health Sciences that the applicant possesses the educational preparation and capacity to pursue postgraduate studies;
   AND

d) Have the equivalent of a minimum of six months recent, full-time experience in occupational therapy management of clients. For admission to a speciality track, the dysfunction in occupational performance exhibited by these clients will be the result of causes which are consistent with the speciality track area.

e) Have the equivalent of a minimum of six months recent, full-time experience in occupational therapy and have current documented access to clients. For admission to a speciality track, the dysfunction in occupational performance exhibited by these clients will be the result of causes which are consistent with the speciality track area.

Elective Subject Descriptions

No Specialty

**15451 Occupational Therapy Clinical Specialty**

_Semester 1 or 2 - 28 hours_

This subject is designed to provide the student with the knowledge and skills necessary to upgrade or expand their clinical expertise in an identified area of practice. The subject permits students to undertake approved courses of study off campus to meet (in part) the requirements of this Graduate Certificate of Applied Science. Enrolment in this subject will be contingent on the student being accepted for the course of study and meeting all costs, providing documentation on the course of study prior to enrolment so that the School can determine whether or not to approve such an enrolment and on the students documented completion of the course. This subject is coordinated by the graduate adviser who will consider enrolment in this subject on a case-by-case basis.
This specialty track within the graduate certificate course will enhance the students knowledge, skills, and attitudes in planning, implementing and evaluating contemporary occupational therapy service provision to clients of any age whose occupational role and task performance has been compromised by developmental disability or during the developmental period.

<table>
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<tr>
<th>Year 1</th>
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<th>Total Hours</th>
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<th>Sem 2</th>
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<td>15484</td>
<td>Occupational Performance and the Inclusive Community</td>
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<tr>
<td>15472</td>
<td>Occupational Therapy Assessment</td>
<td>42</td>
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<td></td>
<td>Elective(^\d)</td>
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<td>15473</td>
<td>Systematic Instruction</td>
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<tr>
<td>15485</td>
<td>Occupational performance and people with high support needs</td>
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Notes:  
\(^\d\) One elective only required to satisfy the requirements of the course. This elective can be taken in either Semester 1 or Semester 2. Electives include:

\[\begin{array}{ll}
15486 & \text{Systematic Instruction: Physical Guidance} \\
15487 & \text{Upper limb Orthotic Systems} \\
15478 & \text{Prescription, Evaluation and Modification of Searing for Occupational Performance} \\
15451 & \text{Occupational Therapy Clinical Specialty}
\end{array}\]
15484 Occupational Performance and the Inclusive Community
$Semester$ 1-42 hours
In this subject students have the opportunity to examine and critically analyse a range of models and philosophies of service provision in the areas of developmental disability and paediatrics from the point of view of their impact on occupational performance. This will include the examination of concepts such as social role valorisation, integration, inclusion, the least restrictive alternative, client centred and family centred approaches to intervention, categorical and non-categorical models of service provision, supported and sheltered employment, transdisciplinary and multidisciplinary models of service delivery, legislative and standards based models of service reform and implementation. Learning experiences include seminars, case study presentations and problem solving tutorials.

15472 Occupational Therapy Assessment
$Semester$ 1-42 hours
This subject examines formal occupational therapy assessments that have been developed for use with people with a developmental disability and also assessment tools which have been developed for use with children whose occupational performance has been compromised. These assessments include both norm referenced tests and criterion referenced tests in current use as well as those being developed. Students will choose one mode of assessment and study its theoretical base, assumptions, development, strengths, limitations and suitability for use in assessing the occupational performance and component performance of people who have a developmental disability and also children whose development of occupational roles has been compromised. Students will develop skill in test mechanics and interpretation of results of the chosen assessment mode through practice during tutorial sessions as well as making a critical evaluation of the use of the tool in their clinical practice. Learning experiences include seminars, tutorials, and videotaped analysis of students assessing people with the selected assessment tool.

15473 Systematic Instruction
$Semester$ 2-42 hours
This subject will extend systematic instruction techniques covered in the occupational therapy undergraduate course. Students will examine the use of systematic instruction to promote performance in self maintenance, productivity, school, play and leisure areas. Students will examine the use of instructional techniques and learn to apply various strategies such as using cues and prompt systems; deciding how to choose reinforcement to promote the learning of occupational tasks; training for complex stimulus discrimination in real world environments; and managing contingencies to reduce artificial reinforcement in favour of naturally occurring reinforcement. Students will identify procedures for promoting maintenance and generalisation. Students will have the opportunity to develop instructional strategies to support people for whom they are currently providing occupational therapy services. Learning experiences include seminars, problem solving around specific case studies and videotaped analysis of the student's skill in applying instructional strategies within their workplace.

15485 Occupational Performance and People with High Support Needs
$Semester$ 2-42 hours
This subject explores strategies which can be used by occupational therapists to identify and affirm the occupational roles of people with high support needs and strategies to promote and fully support their fulfilment of those roles and their performance of human occupations. This subject will also examine assessment and intervention strategies to promote a person's occupational performance where that is affected by the presence of challenging behaviours. Learning experiences include seminars, case presentations, problem solving exercises and videotaped analysis of students interactions with people for whom they are currently providing occupational therapy services.
Elective Subject Descriptions
Occupational Therapy in Developmental Disabilities and Paediatrics

15486 Systematic instruction: Physical Guidance
Semester 1 or 2 - 28 hours
This subject examines the use of various physical guidance models to improve performance of occupational tasks by people with a developmental disability. Each model will be examined relative to its theoretical base, assumptions and application to the management of developmental disability. Students will select one specific model and develop skill in using the model to enable people to initiate steps in performing occupational tasks, improve the quality of performance of occupational tasks, improve the timing of performance of occupational tasks and to appropriately terminate task performance. Learning experiences include seminars, problem solving around case studies and videotape analysis of student's skill in physically guiding performance of occupational tasks.

15487 Upper Limb Orthotic Systems
Semester 1 or 2 - 28 hours
This subject explores the use of upper limb orthotic systems to improve the performance of occupational tasks by people whose occupational performance has been compromised during the developmental period. Students will examine the biomechanics of the upper limb and the pathomechanics that occur as a result of developmental disability. Principles of orthotic design and fabrication will be examined relative to upper limb problems found in people with a developmental disability. Students will learn to design, fabricate and evaluate orthotic systems which promote the occupational performance of people for whom they are currently providing occupational therapy services. Learning experiences include seminars, problem solving around case studies, videotape analysis of occupational performance problems and analysis of orthotic systems designed by students.

15478 Prescription, Evaluation and Modification of Seating for Occupational Performance
Semester 1 or 2 - 28 hours
This subject examines the range of seating equipment available. Students will extend their skill and knowledge in the prescription, evaluation and modification of equipment that promotes performance of occupational tasks in a sitting position. Students will integrate principles of ergonomics, biomechanics and design with principles of occupational performance to determine appropriate seating options for clients whose physical function is compromised by impaired brain function. Learning experiences will include seminars, case presentations and videotaped assessments of client seating.

15451 Occupational Therapy Clinical Specialty
Semester 1 or 2 - 28 hours
This subject is designed to provide the student with the knowledge and skills necessary to upgrade or expand their clinical expertise in an identified area of practice. The subject permits students to undertake approved courses of study off campus to meet (in part) the requirements of this Graduate Certificate of Applied Science. Enrolment in this subject will be contingent on the student being accepted for the course of study and meeting all costs, providing documentation on the course of study prior to enrolment so that the School can determine whether or not to approve such an enrolment and on the students documented completion of the course. This subject is coordinated by the graduate adviser who will consider enrolment in this subject on a case-by-case basis.
This specialty track within the graduate certificate course will enhance the students knowledge, skills and attitudes in planning, implementing and evaluating contemporary occupational therapy service provision to clients of any age whose occupational role and task performance has been compromised by the physical environment they operate within.

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<th>Year 1</th>
<th>Total Hours</th>
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<th>Sem 2</th>
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<tr>
<td>15488 Environmental Measurement</td>
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<tr>
<td>15489 Environmental Theory</td>
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<td>15490 Foundations for Modifications in Public and Private Buildings</td>
<td>42</td>
<td>-</td>
<td>42</td>
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<tr>
<td>15491 Communication with Clients, Builders, Architects and Tradesmen</td>
<td>42</td>
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</table>

Notes
\(^1\) One elective only required to satisfy the requirements of the course. This elective can be taken in either Semester 1 or Semester 2. Electives include:
- 15492 Occupational Therapy Drafting Using CAD Packages
- 15493 Establishing and Contributing to Community Access Policies
- 15478 Prescription, Evaluation and Equipment Modification for Occupational Performance
- 15451 Occupational Therapy Clinical Specialty
15488 Environmental Measurement
Semester 1-42 hours
This subject examines formal and informal tools that have been developed to evaluate the impact of the built environment for persons with disabilities. These tools include checklists and post occupancy evaluation protocols. In addition students will develop skill in correct use and practice with retractable measures, builders levels, stud finders, light meters, and load measures. This will be achieved through practice utilising tools during tutorial sessions as well as practice utilising tools to evaluate buildings within their community. Students will examine the theoretical base, underlying assumptions, strengths, limitations and suitability for use in assessing the built environment. Learning experiences include seminars, tutorials, and videotaped analysis of students using tools.

15489 Environmental Theory
Semester 1-42 hours
This subject will examine pertinent theories of person environmental interaction. These theories relate to design, psychology, sociology, anthropology and occupational therapy. Some theories to be examined will be environmental press, personal space, design prototype theory and human factors research. Students will select a specific theory and then relate it to occupational therapy practise and environmental modification options. Learning experiences include tutorials and seminars. Students are required to select one theory and show how it can be applied to name and frame environmental data, and thus the identification and resolution of barriers in the built environment for persons with special needs.

15490 Foundations for Modifications in Public and Private Buildings
Semester 2-42 hours
This subject examines the expertise that can be acquired via application and interpretation of regulatory standards. Material to be covered will include general principles for design of buildings to enhance access and mobility. Design standards will be examined in relation to their history, assumptions, applicability and researchbase. Material from America and England will be compared to the Australians Standards 1428 parts 1,2,3 and 4. Students will critically evaluate the appropriate application of standards in eliminating access barriers. Learning experiences include seminars, and will include problem solving around client cases.

15491 Communication with Clients, Builders, Architects and Tradesmen
Semester 2-42 hours
This subject explores uniform building terminology and how to decode and package information to facilitate the understanding of the various stakeholders involved. Various models of communication will be explored with emphasis on how to work with others and how to put together building specifications in terms of timing and level of detail. Students will learn what is necessary in terms of informed consent, product liability and legal report writing. Students will explore types of documentation and then audit environmental modification reports within their workplace in terms of best practice. Learning experiences include seminars, problem solving around client cases, videotape analysis of communication sessions and audits of environmental modification reports.

Elective Subject Descriptions

Occupational Therapy in Environmental Modification and Technology

15492 Occupational Therapy Drafting Using CAD Packages
Semester 1 or 2 - 28 hours
This subject focuses on occupational therapy skills in representing changes to the built environment using drawing techniques. Students will examine various computer aided drafting (CAD) packages which can be used to simplify and facilitate representation of problems and potential solutions in building design. Students will learn how to critically select and operate CAD software to produce appropriate plan drawings and front and side elevations. Learning experiences include tutorials, case presentations and problem solving tutorials using CAD software.

15493 Establishing and Contributing to Community Access Policies
Semester 1 or 2 - 28 hours
This subject explores strategies which can be used by occupational therapists to establish and contribute to community policies on environmental access. Students will examine the role, history, function and impact of local council access committees on environmental access policy. Students will also examine the disability discrimination act and determine how it is being used to promote access and determine its relevance to the needs and rights of disabled persons at the local community level. Learning experiences include seminars, case presentations, and problem solving exercises.
15478 Prescription, Evaluation and Equipment Modification for Occupational Performance

Semester 1 or 2 - 28 hours
This subject examines the range of large equipment available to temporarily modify the built environment. Examples include portable ramps, hoists, furniture surrounds, and bathing aids. Students will extend their skill and knowledge in the prescription, evaluation and modification of equipment that promotes performance of occupational tasks in a home environment. Students will integrate principles of optimisation, biomechanics, ergonomics, and design with principles of occupational performance to determine appropriate options for clients where structural modification is not desirable. Learning experiences will include seminars, case presentations and videotaped assessments of client equipment evaluation.

15451 Occupational Therapy Clinical Specialty

Semester 1 or 2 - 28 hours
This subject is designed to provide the student with the knowledge and skills necessary to upgrade or expand their clinical expertise in an identified area of practice. The subject permits students to undertake approved courses of study off campus to meet (in part) the requirements of this Graduate Certificate of Applied Science. Enrolment in this subject will be contingent on the student being accepted for the course of study and meeting all costs, providing documentation on the course of study prior to enrolment so that the School can determine whether or not to approve such an enrolment and on the students documented completion of the course. This subject is coordinated by the graduate adviser who will consider enrolment in this subject on a case-by-case basis.
This specialty track within the graduate certificate course will enhance the students knowledge, skills and attitudes in planning, implementing and evaluating contemporary occupational therapy service provision to clients of any age whose occupational role and task performance has been compromised by threatened or impaired mental health.

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<th>Course Code</th>
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<td>15468</td>
<td>Occupational Therapy Service Delivery in Mental Health</td>
<td></td>
<td>42</td>
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<td>Family and System Intervention for Occupational Therapy in Mental Health</td>
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<td>15470</td>
<td>Advanced Counselling for Occupational Therapy</td>
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<td>42</td>
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</table>

<sup>1</sup> One elective only required to satisfy the requirements of the course. This elective can be taken in either Semester 1 or Semester 2. Electives include:
- 15471 Creative Arts in Occupational Therapy
- 15451 Occupational Therapy Clinical Specialty
15467 Advanced Occupational Therapy Assessment and Treatment in Mental Health

Semester 1-42 hours
Assessment, treatment and documentation are three primary functions that occupational therapists perform in their role as clinicians in mental health services. Inherent in these functions is the ability to make clinical decisions. The aim of this subject is to enhance the practitioner's clinical reasoning and decision making skills in the assessment and treatment of clients. It also aims to enable the practitioners to enhance the unique role and contribution of occupational therapy within the multidisciplinary setting. Diagnostic and functional assessments and specific client-centred interventions developed within the context of occupational therapy and mental health practice models will be emphasised. Practitioners will examine their own clinical reasoning and decision making within the context of these models and the practice environment.

15468 Occupational Therapy Service Delivery in Mental Health

Semester 1-42 hours
This subject will be dealing with service delivery in occupational therapy mental health practice. It will incorporate needs assessment and analysis; program planning, implementation and evaluation; quality assurance and documentation. The issue of case management and knowledge of the principles and practice of psychosocial rehabilitation will be addressed. There will be also an emphasis on client empowerment throughout different phases of service delivery.

15469 Family and System Intervention for Occupational Therapy in Mental Health

Semester 2-42 hours
Students will examine and develop knowledge of family systems' theories as applied to clients in particular treatment settings and the community. Emphasis will be on the occupational therapists' role of empowerment and advocacy in the planning and implementation of services for the mentally ill clients and their families in the community.

15470 Advanced Counselling for Occupational Therapy Practice

Semester 2-42 hours
This subject will employ an experiential approach to introduce students to various models of counselling and to gain beginning skills in counselling of clients with special needs or in special clinical settings which are applicable to the current occupational therapy practice. The content of this subject will cover counselling in areas which include marriage, family, drug and alcohol abuse, crisis, and grief and bereavement. Student will also learn to assess client's needs in the helping process and select appropriate counselling model to address those needs.

Elective Subject

15471 Creative Arts in Occupational Therapy

Semester 1 or 2 - 28 hours
This subject examines the theories supporting the creative arts in therapists that are applied by occupational therapists in mental health practice. Students will develop skills, in a workshop environment, in facilitating change through expressive activities such as drama, art, dance, creative writing and clay work. The emphasis of this subject will be on enhancement of occupational function with clients with mental illness and design and implementation of these programs in specific setting in mental health.

15451 Occupational Therapy Clinical Specialty

Semester 1 or 2 - 28 hours
This subject is designed to provide the student with the knowledge and skills necessary to upgrade or expand their clinical expertise in an identified area of practice. The subject permits students to undertake approved courses of study off campus to meet (in part) the requirements of this Graduate Certificate of Applied Science. Enrolment in this subject will be contingent on the student being accepted for the course of study and meeting all costs, providing documentation on the course of study prior to enrolment so that the School can determine whether or not to approve such an enrolment and on the students documented completion of the course. This subject is coordinated by the graduate adviser who will consider enrolment in this subject on a case-by-case basis.
This specialty track within the graduate certificate course will enhance the students knowledge, skills and attitudes in planning, implementing and evaluating contemporary occupational therapy service provision to clients of any age whose occupational role and task performance has been compromised by the physical and cognitive manifestations of impaired brain function.

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<th>Year 1</th>
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<tr>
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<td>15473 Systematic Instruction</td>
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<td>15475 Upper Limb Orthotic Systems</td>
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Notes:<sup>1</sup> One elective only required to satisfy the requirements of the course. This elective can be taken in either Semester 1 or Semester 2. Electives include:

- 15476 Programming for Community and Living Skills
- 15477 Systematic Instruction: Behaviour Management
- 15478 Prescription, Evaluation and Modification of Seating for Occupational Performance
- 15451 Occupational Therapy Clinical Specialty
15472 Occupational Therapy Assessment
Semester 1-42 hours
This subject examines formal occupational therapy assessments that have been developed for use with persons with impaired brain function. These assessments include both norm referenced tests and criterion referenced tests in current use as well as those being developed (A-ONE OT-ADL Neurobehavioural Evaluation, Assessment of Motor and Process Skills (AMPS), Community Adaptive Patterns Assessment, PRPP System). Students will choose one mode of assessment and study its theoretical base, assumptions development, strengths, limitations and suitability for use with persons with impaired brain function. Students will develop skill in test mechanics and interpretation of results of the chosen assessment mode through practice during tutorial sessions as well as practice on clients within their workplace. Learning experiences include seminars, tutorials, and videotaped analysis of students testing clients.

15473 Systematic Instruction
Semester 1-42 hours
This subject will extend systematic instruction techniques covered in the occupational therapy undergraduate course. Students will examine the use of systematic instruction to structure self-care and community programs specifically for clients with impaired brain function. Students will examine the use of instructional techniques and learn to apply various strategies such as using cues and prompt systems; deciding how to choose reinforcement to promote the learning of occupational tasks; training for complex stimulus discrimination in real world environments; and managing contingencies to reduce artificial reinforcement in favour of naturally occurring cues. Students will identify procedures for promoting maintenance and generalisation and apply these to the development of client programs in both acute and tertiary rehabilitation programs. Students will have the opportunity to develop instructional strategies that apply to specific clients in their workplace. Learning experiences include seminars, problem solving around client cases and videotaped analysis of students testing clients.

15474 Systematic Instruction: Physical Guidance
Semester 2-42 hours
This subject examines the use of various physical guidance models to improve performance of occupational tasks of persons with impaired brain function. Each model will be examined relative to its theoretical base, assumptions and application to management of impaired brain function. Students will select one specific model and develop skill in using the model to help clients initiate steps in performing occupational tasks, improve the quality of performance of occupational tasks, improve the timing of performance of occupational tasks and to appropriately terminate task performance. Learning experiences include seminars, problem solving around client cases and videotape analysis of student's skill in physically guiding performance of occupational tasks.

15475 Upper Limb Orthotic Systems
Semester 2-42 hours
This subject explores the use of upper limb orthotic systems to improve performance of occupational tasks of persons with impaired brain function. Students will examine the biomechanics of the upper limb and the pathomechanics that occur as a result of impaired brain function. Principles of orthotic design and fabrication will be examined relative to upper limb problems found in persons with impaired brain function. Students will learn to design, fabricate and evaluate orthotic systems fitted to clients within their workplace. Learning experiences include seminars, problem solving around client cases, videotape analysis of client problems and analysis of orthotic systems designed by students.

Elective Subject Description
Occupational Therapy in Neurology

15476 Programming for Community and Living Skills
Semester 1 or 2 - 28 hours
This subject focuses on occupational therapy management of clients with impaired brain function who are in tertiary rehabilitation programs. Students will examine various strategies which can be used to facilitate clients making a meaningful transition from rehabilitation programs to community living. Students will learn how to identify client skills required for community living; become familiar with the services provided by service agencies with the community and will learn how to plan systematically for the transfer to programming responsibilities to other community agencies and families before targeted discharge from tertiary rehabilitation programs. Learning experiences include seminars, case presentations and problem solving tutorials.
15477 Systematic Instruction: Behaviour Management
Semester 1 or 2 - 28 hours
This subject explores strategies which can be used by occupational therapists to manage maladaptive or challenging behaviours that occur in persons with impaired brain function and interfere with performance of occupational tasks. Students will learn to use a functional analysis of behaviour during task performance and combine findings with environmental and discrepancy analyses as well as social validation procedures to determine appropriate intervention strategies. Students will examine how various behaviour change intervention models can be used to promote performance in occupational tasks and determine their relevance to management of clients with impaired brain function. Learning experiences include seminars, case presentations, problem solving exercises and videotaped analysis of students interactions with clients.

15478 Prescription, Evaluation and Modification of Seating for Occupational Performance
Semester 1 or 2 - 28 hours
This subject examines the range of seating equipment available. Students will extend their skill and knowledge in the prescription, evaluation and modification of equipment that promotes performance of occupational tasks in a sitting position. Students will integrate principles of ergonomics, biomechanics and design with principles of occupational performance to determine appropriate seating options for clients whose physical function is compromised by impaired brain function. Learning experiences will include seminars, case presentations and videotaped assessments of client seating.

15451 Occupational Therapy Clinical Specialty
Semester 1 or 2 - 28 hours
This subject is designed to provide the student with the knowledge and skills necessary to upgrade or expand their clinical expertise in an identified area of practice. The subject permits students to undertake approved courses of study off campus to meet (in part) the requirements of this Graduate Certificate of Applied Science. Enrolment in this subject will be contingent on the student being accepted for the course of study and meeting all costs, providing documentation on the course of study prior to enrolment so that the School can determine whether or not to approve such an enrolment and on the students documented completion of the course. This subject is coordinated by the graduate adviser who will consider enrolment in this subject on a case-by-case basis.
This specialty track within the graduate certificate course will enhance the students knowledge, skills and attitudes in planning, implementing and evaluating contemporary occupational therapy service provision to clients of any age whose occupational performance has been compromised by the physical, cognitive and psychosocial manifestations of work-related injury or disease.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Total Hours</th>
<th>Sem 1</th>
<th>Sem 2</th>
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<tr>
<td>15494 Occupational Therapy Assessment of the Individual in Occupational Rehabilitation</td>
<td>42</td>
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<td>15495 Individual Intervention Strategies in Occupational Rehabilitation</td>
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<td>or 28</td>
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<td>15496 Occupational Therapy Assessment of the Environment in Occupational Rehabilitation</td>
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<td>15497 Environmental Intervention Strategies in Occupational Rehabilitation</td>
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Notes

¹ One elective only required to satisfy the requirements of the course. This elective can be taken in either Semester 1 or Semester 2. Electives include:

- 15498 Marketing for Occupational Therapists
- 15499 Health Promotion - Theories and Application
- 154A1 Health Promotion - Program Design and Development
- 15451 Occupational Therapy Clinical Specialty
15494 Occupational Therapy Assessment of the Individual in Occupational Rehabilitation

Semester 1-42 hours
This subject examines assessments used by occupational therapists that have been developed for use with individuals who experience difficulty fulfilling their roles as workers. The range of assessments and approaches which will be examined include norm-referenced and criterion-referenced assessments, commercially available systems (e.g. Valpar, WEST, Isernhagen, WorkAbility 3), and non-standardised assessments. Assessments which address performance component deficits in the biomechanical, sensory-motor, cognitive and psychosocial areas relevant to occupational performance in productivity will also be examined. Students will study these assessments in terms of their theoretical base, assumptions, development, strengths, limitations and suitability for use for individuals who are unable to fulfil their productivity roles.

15495 Individual Intervention Strategies in Occupational Rehabilitation

Semester 1-42 hours
Following the identification of specific deficits in occupational performance relevant to productivity, the development of appropriate intervention strategies occurs. This subject will examine various approaches to intervention with individuals. The issue of case management and knowledge of the principles and practice of occupational rehabilitation will be addressed. Approaches to work hardening and conditioning in various settings will be considered. The development of intervention programs for individuals with physical, cognitive and psychosocial deficits affecting productivity will be addressed.

15496 Occupational Therapy Assessment of the Environment in Occupational Rehabilitation

Semester 2-42 hours
This subject examines the assessment of the overall work environment. Many aspects of an organisation, the work environment and various other systems can impact on the performance of individuals and therefore must be examined. Determining which aspects of the environment to assess as well as the selection of appropriate assessment strategies will be addressed. Assessment of the technical and hardware systems, formal structures and informal structures will be presented. Students will develop skills in the assessment of environments from these various perspectives.

15497 Environmental Intervention Strategies in Occupational Rehabilitation

Semester 2-42 hours
Having assessed an organisation, its environment and the contexts and systems in which it operates, it is necessary to then develop appropriate intervention strategies addressing these problems. This subject examines this broad range of interventions. Areas such as designing, adapting and modifying the technical and hardware systems will be addressed, as will interventions relevant to the formal and informal structures. Implications for intervention related to legislative requirements and the broader political environment will be considered.

Elective Subject Descriptions

15498 Marketing for Occupational Therapists

Semester 1 or 2 - 28 hours
This subject examines marketing concepts and techniques used in the promotion of occupational therapy services through the marketing of services and marketing management. It provides students with the opportunity to develop marketing plans for the provision of professional services relevant to their work environment.

15499 Health Promotion - Theories and Application

Semester 1 or 2 - 28 hours
The aims of this subject are to introduce students to the concept of health promotion, provide an introduction to the conceptual bases which influence health promotion and consider how the application of these theories may influence health promotion programs. Content includes theories which influence health promotion and differing approaches to health promotion varying from individual to populations.

154A1 Health Promotion - Program Design and Development

Semester 1 or 2 - 28 hours
This subject provides opportunities for the student to develop skills in the design, development, implementation and evaluation of health promotion programs and strategies. Needs assessment, program design and process, impact and outcomes evaluation will be covered. Students will develop programs relevant to their own work settings.
15451  Occupational Therapy Clinical Specialty
Semester 1 or 2 - 28 hours
This subject is designed to provide the student with the knowledge and skills necessary to upgrade or expand their clinical expertise in an identified area of practice. The subject permits students to undertake approved courses of study off campus to meet (in part) the requirements of this Graduate Certificate of Applied Science. Enrolment in this subject will be contingent on the student being accepted for the course of study and meeting all costs, providing documentation on the course of study prior to enrolment so that the School can determine whether or not to approve such an enrolment and on the students documented completion of the course. This subject is coordinated by the graduate adviser who will consider enrolment in this subject on a case-by-case basis.
### Table 11.5  Master of Applied Science (Occupational Therapy)

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#### By Research

##### G  Full-time Mode

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#### Notes

1. The enabling subjects 15435 and 15449 are normally required of all students. They provide the basis for students to undertake advanced study in specific areas of occupational therapy.
2. Elective subjects must include as least one of the following research electives and one or more research electives or subjects relevant to the content area of the thesis up to a total of 42 hours.

- 08501 Epidemiological Research
- 08502 Evaluation Research
- 08503 History and Philosophy of Scientific Methodology
- 10503 Advanced Research Methods
- 10504 Quantitative Research Methods
- 10505 Qualitative Research Methods
- 11501 Biological Measurement and Analysis
- 15465 Single System Research Design and Evaluation Methods
- 15479 Research Designs and Methods for Therapists
- 10514 Survey Research
- 08560 Action Research
### By Coursework

#### Full-time Mode

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<th>Sem 2</th>
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#### Part-time Mode

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<td>Foundation of Clinical Practice and/or Clinical Specialty Topics</td>
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#### Year 2

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<td>Foundations of Clinical Practice and/or Clinical Specialty Topics</td>
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#### Year 3

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<tr>
<td>Project</td>
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<td>84</td>
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</tbody>
</table>
Master of Applied Science (Occupational Therapy)
The School of Occupational Therapy offers two graduate courses for occupational therapists. The Master of Applied Science in Occupational Therapy by Research which commenced in 1988 and the Master of Applied Science by Coursework which commenced in 1990.

Admission Requirements
By Research
1. Possess an award of Bachelor of Applied Science (Occupational Therapy) from Cumberland College of Health Sciences or The University of Sydney; OR
2. Possess an award of Bachelor of Applied Science (Hon) in Occupational Therapy from The University of Sydney; OR
3. Possess an award of Bachelor of Science with a major in Anatomy from The University of New South Wales, and a Graduate Diploma in Occupational Therapy from Cumberland College of Health Sciences; OR
4. Possess such qualifications as are deemed equivalent to (1), (2) or (3); OR
5. Submit such other evidence of general and/or professional qualifications as will satisfy the Faculty that the applicant possesses the educational preparation and capacity to pursue graduate studies; AND
6. Have the equivalent of a minimum of one year full-time professional experience since graduation as an occupational therapist.

For occupational therapists without these qualifications entry may be possible through successful completion of a qualifying program designed specifically for individual applicants.

By Coursework
1. Possess those qualifications described in (1), (2), (3) and (4) of the requirements for admission to the MAppSc (OT) by Research degree OR
2. Possess an award of Diploma in Occupational Therapy from a recognised educational body and submit such other evidence of general and/or professional qualifications as will satisfy the Faculty that the applicant possesses the educational preparation and capacity to pursue graduate studies; AND
3. Have the equivalent of a minimum of one year full-time professional experience since graduation as an occupational therapist.

Course Outline
The Course Outlines for the Master of Applied Science (Occupational Therapy) by Research and Coursework are presented in table 11.5.

By Research
The Master of Applied Science in Occupational Therapy by research has a combined coursework and applied research thesis format. The course is designed to provide opportunity for advanced study, critical evaluation, and research in specific areas of occupational therapy. The course may be completed full-time or part-time.

Subject Descriptions
15433 Research Thesis
In this subject, students will investigate an area of specialised interest in occupational therapy. Students will be expected to carry out their thesis under approved supervision.

15435 Theory, Process and Practice in Occupational Therapy
Semester 1-28 hours
In this subject is to develop the student's ability to critically appraise theoretical frameworks and models of practice in occupational therapy. Students will identify the central features of theoretical positions, examine key concepts and validate their implications for research and practice.

15449 Research in Occupational Therapy Clinical Practice
Semester 2-56 hours
The purpose of this subject is for students to investigate issues in applied research and evaluation in clinical practice of occupational therapy. The subject will address historical perspectives on research in occupational therapy; common problems for research in clinical settings and procedures that are appropriate to the applied context.
15479 Research Designs and Methods for Therapists

Semester 1 - 42 hours

The purpose of this subject is to explore a variety of research designs, research methods, and related issues appropriate to applied research. The exploration will be accomplished through student led seminar discussions of selected readings and each student will develop a research proposal on a topic of their choice. The content will include such things as: an overview of appropriate research designs, strengths and weaknesses of a broad selection of designs and methods, reliability and validity, selection of a study population, research ethics, development of research statements and questions, proposal writing, and the use of computers and other technology in research.

15465 Single System Research Design and Evaluation Methods

Semester 2 - 42 hours

The purpose of this unit is to explore the application of systematic research and evaluation methods through single system design. Students will have the opportunity to design a single system project which is appropriate to their work setting. In doing this, the following will be covered: comparison of traditional and single system research methods; measurement and recording procedures associated with single system designs; basic and advanced designs for single system evaluation and research; and visual and statistical analysis of single system data.

Elective Subjects

For Elective subject descriptions, see Appendix 1.

By Coursework

The Master of Applied Science in Occupational Therapy by coursework has a coursework and project format. The course is designed to provide study in occupational therapy and related topics appropriate for leadership roles in areas of clinical specialisation. The course can be completed full-time or part-time.

Subject Descriptions

15900 Special Programme - Occupational Therapy Master's Qualifying

The Special Programmes are devised to meet individual needs. They are not subjects in the normal sense and do not necessarily involve a common syllabus and should not be compared between individual cases.

15435 Theory, Process and Practice in Occupational Therapy

Semester 1 - 28 hours

For subject description, refer to Research Degree.
Clinical Specialty Topics
This is a programme of study designed by the student in consultation with the graduate adviser. Subjects may be chosen from subjects offered in the Graduate Certificate of Applied Science (Occupational Therapy) or other existing post-graduate and master courses within the Faculty, including those listed in Foundations of Clinical Practice, and the subject Occupational Therapy Clinical Specialty (15451). Enrolment in these subjects will be contingent on the student satisfying the necessary entry requirements, on places being available and with the approval of the relevant Head of School or Department from which the course is offered. Any combination of subjects may be selected so long as the combination is equivalent to 42 hours per semester for 3 semesters. For elective subject descriptions, see Appendix 1.

I Topics in Clinical Research
08441 Programme Planning and Evaluation (28 hours)
08501 Epidemiological Research (42 hours)
08502 Evaluation Research (42 hours)
08503 History and Philosophy of Scientific Methodology (42 hours)
08522 Introduction to Epidemiology and Biostatistics (28 hours)
10503 Advanced Research Methods (42 hours)
10504 Quantitative Research Methods (42 hours)
10505 Qualitative Research Methods (42 hours)
11501 Biological Measurement and Analysis (42 hours)
15465 Single System Research Design and Evaluation Methods (42 hours)
15479 Research Designs and Methods for Therapists (42 hours)
08506 Action Research

II Topics in Health Science Education
08506 Planning, implementing and evaluating education experiences (42 hours)
08431 Producing and using audiovisual materials (28 hours)
08434 Student Assessment, Evaluation and Development (42 hours)
08481 Introduction to Health Education (42 hours)
08482 Large Group Teaching (28 hours)
08515 Teaching with Reduced Resources (28 hours)
08520 Clinical Teaching and Supervision (28 hours)
08504 Adult Learning and Health Sciences (28 hours)

III Topics in Health Care and Promotion
08445 Women's Health (28 hours)
08446 Aboriginal Health (28 hours)
08447 Migrant and Refugee Health (28 hours)
08456 Legal and Ethical Issues in Community Health (28 hours)
08488 Counselling Theory and Practice (28 hours)
08490 Community Development (28 hours)
08521 Introduction to Community Health Policy and Services (28 hours)
08523 Australian Society and Health (28 hours)
08529 Management and Problem Solving (28 hours)
15441 Lifestyle (28 hours)
15452 Communication and Conflict in Health Care Environments (28 hours)

IV Topics in Clinical Practice
15437 Occupational Therapy Theory and Practice in Gerontology (28 hours)
15456 Occupational Therapy Theory and Practice in Community (28 hours)
15457 Occupational Therapy Theory and Practice in Palliative Care (28 hours)
15459 Managerial Issues in Occupational Therapy (28 hours)
15451 Occupational Therapy Clinical Specialty
Fieldwork

Fieldwork education is an integral part of the occupational therapy and diversional therapy programmes offered by the School of Occupational Therapy. Fieldwork education may consist of block placements and other guided learning experiences. These experiences provide students with an opportunity to practise skills and take responsibility commensurate with their background knowledge and level of development, acquired during the course. Fieldwork block placements are periods of two to seven weeks where students attend a setting five days a week full time for approximately 37.5 hours per week. The placements occur during semester time and during recess periods, at all levels of the courses and are located in both metropolitan and country facilities.

Occupational Therapy Fieldwork Education

Fieldwork Education I - Preparatory lectures, tutorials and a two week orientation and observation block placement in the first two weeks of inter-semester recess.

Fieldwork Education II - Briefing and debriefing tutorials and a three week block placement during inter-semester recess.

Fieldwork Education III - Briefing and debriefing tutorials, and two blocks of placements of seven weeks each in the first semester.

Fieldwork IV - Two six week block placement. The first placement commences in February and continues for three weeks into the final semester. The second block placement follows the final semester of the course.

Fieldwork Dates

Year 1
June 26 - July 7 (2 weeks);
Year 2
July 10 - July 27 (3 weeks);
Year 3
February 27 - April 14 (7 weeks)
AND April 24 - June 9 (7 weeks)
Year 4
February 6 - March 17 (6 weeks)
AND June 26 - August 4 (6 weeks)

Diversional Therapy Fieldwork

Fieldwork I - A one week block placement in the inter-semester recess, plus 15 hours of Clinical Practicums spread over Semesters 1 and 2.

Fieldwork II - Two block placements and a two day camp. The first block placement is for three weeks commencing at the end of January. The second block placement is a four week placement beginning in the inter-semester recess and continuing into Semester 2. The two day camps are scheduled at various times during the year.

Fieldwork Dates

Year 1
June 26 - June 30 (1 week);
Year 2
January 30 - February 17 (3 weeks)
AND July 24 - August 18 (4 weeks)

Uniforms

Students in the occupational therapy course are required to obtain uniforms to be worn while undertaking hospital placements where uniforms are required. Fittings for uniforms will be organised in Semester 1. Students in the diversional therapy course may be required to wear uniforms on some fieldwork placements. A Faculty name badge is required to be worn at all times during fieldwork placements by both occupational therapy and diversional therapy students. These badges can be obtained from the Students’ Union.

Occupational Therapy Students

Women
Short Sleeves blouse;
shirtmaker white with navy blue stitching
Navy blue culotte skirt
Navy blue cardigan/jumper
Navy, black or white, closed shoes

Men
White short sleeves shirt
Navy blue trousers
Navy blue cardigan/jumper
Black or brown shoes

Diversional Therapy Students

Women
Blouse: Lemon Shirtmaker
Skirt/Culotte: navy blue
Cardigan/jumper: navy blue
Shoes: closed in, navy blue

Men
Shirt: Lemon Shirtmaker
Trousers: navy blue
Cardigan/jumper: navy blue
Shoes: black
The training of orthoptists in Australia commenced in 1935 and until 1973 was carried out under the auspices of the Royal Australian College of Ophthalmologists (RACO), originally the Ophthalmological Society of Australia.

Orthoptists are therapists whose expertise includes investigation and management of ocular muscle dysfunction, the performance of special procedures for investigating ocular and neurological pathology, consultancy (particularly in the multi-disciplinary care of patients) and effective screening of vision problems before secondary complications occur. Orthoptic education places special emphasis on the management of the very young and the elderly, as these are groups in which visual screening is of particular importance.

In 1973 the training of orthoptists was taken over by the New South Wales College of Paramedical Studies (subsequently Cumberland College and now the Faculty of Health Sciences). A four-year programme leading to a Bachelor of Applied Science or a Bachelor of Applied Science (Honours) is now offered, as well as a research-based Master of Applied Science, which commenced in 1993.

The current employment of orthoptists is primarily within the major hospitals and in private practices throughout the State. The scope of professional practice is increasing as more graduates find employment in the wider community where expertise in visual health is required, e.g. in rehabilitation settings, baby health centres and with the aged.

The technological component of visual health assessment is increasing rapidly. This has been addressed through strengthening of the basic and applied sciences within the Bachelor degree programme.

Enquiries regarding the academic programme should be addressed to the Head of the School of Orthoptics, Associate Professor Elaine Cornell (ph 646-6250, fax 646-6359).
Table 12.1  Bachelor of Applied Science (Orthoptics)

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Year 2

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Year 3 (to be first offered in 1995)

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**Honours Programme**

Year 1

As for pass course

Year 2

As for pass course

Year 3

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Year 4 (to be first offered in 1996)

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Notes

1. 2 weeks inter-semester placement
2. 4 weeks pre-semester or inter-semester
3. 15 weeks x 26 hours
4. Scheduled as appropriate to meet clinical and research objectives
Table 12.1.1 Bachelor of Applied Science (Orthoptics)

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<td>Honours Programme; Full-time, 4 years (for students who commenced first year of the 3 1/2 year course in 1992 or earlier)</td>
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- **Honours Programme**

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**Notes**

1. Clinical Studies IV consists of 112 hours pre-
     -semester and 168 hours during Semester 1.
Bachelor of Applied Science (Orthoptics)
The School of Orthoptics presents a 4 year full time course leading to a Bachelor of Applied Science (Orthoptics) degree and a 4 year full time course leading to a Bachelor of Applied Science (Orthoptics) (Honours) degree. These courses aim to equip the graduate with the knowledge essential to professional practice. The honours programme is designed to develop the skills necessary to carry out research in orthoptics and related areas.

Admission Requirements
There are no specific prerequisites for the Bachelor of Applied Science (Orthoptics) course. Students with a significant visual problem should contact the School before applying, for advice as to whether this would affect their ability to complete clinical education requirements. The need to wear glasses to achieve normal vision is not considered to be a problem in this context. The General Admission requirements in Chapter 3 apply.

Course Outline
Course Outlines for the Bachelor of Applied Science (Orthoptics) Pass and Honours programmes are presented in Table 12.1 page 12-2 and Table 12.1.1 page 12-4.

Subject Descriptions

Year 1

11176  Introductory Human Biology
Semester 1-56 hours
Semester 2-42 hours
This subject presents aspects of the basic chemistry, biochemistry and physiology which underlie the normal function of the human body. The topics considered include general cellular structure and function, cell metabolism, protein synthesis, cell division, the principles of homeostasis, genetics and blood.

11178  Introductory Neurobiology
Semester 1-28 hours
Co-requisite: Introductory Human Biology (11176)
This subject introduces the student to the basic structure and function of the nervous system, and the physiology of nerve, receptors, synapses and neuromuscular transmission. The structure, contractile process, muscular mechanics and biochemistry of skeletal and smooth muscle are covered. The subject includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

11179  Neurobiology I
Semester 2-28 hours
Pre-requisite: Introductory Neurobiology (11178)
The subject covers spinal reflex mechanisms, as well as the structure and function of the somatosensory system. There is also a discussion of the autonomic nervous system. The subject includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

11180  Optics I
Semester 2-28 hours
Pre-requisite: Introductory Human Biology (11176)
The subject covers spinal reflex mechanisms, as well as the structure and function of the somatosensory system. There is also a discussion of the autonomic nervous system. The subject includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

11181  Body Systems I
Semester 2-56 hours
Pre-requisite: Introductory Human Biology (11176)
This is an introduction to the structure and function of the major organs of the body, including the respiratory, cardiovascular, digestive, renal and reproductive systems. The subject includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

11182  Optics II
Semester 2-28 hours
Pre-requisite: Optics I (11180)
This subject introduces students to the principles of visual optics, including the eye as an optical system and ophthalmic instruments.

14125  Instrumentation I
Semester 1-42 hours
Semester 2-42 hours
The assessment skills and instrumentation related to general ocular examination and strabismus assessment will be introduced in a format which allows clinical skills to be practiced. In this unit principles related to data gathering and its analysis will also be introduced.

14126  Visual Processes
Semester 1-42 hours
The normal eye and the assessment of its function is introduced, including visual acuity, contrast sensitivity, the visual pathway, the visual field, binocular vision, spherical refractive errors, eye movements, accommodation, and convergence.
14127 Binocular Vision  
*Semester 2-42 hours*  
The principles of binocular vision, its anatomical and physiological substrates are introduced. Topics covered include projection, corresponding retinal points, horopter, physiological diplopia, fusion, superimposition, BSV, stereopsis, and the accommodation/convergence synkinesis. Factors determining misalignment of the visual axes, and its assessment and sensory sequelae are also introduced.

14128 Disorders of the Visual System IA  
*Semester 1-28 hours*  
In this subject the common disorders of the eye are introduced.

14129 Disorders of the Visual System IB  
*Semester 2-28 hours*  
This unit covers a study of ophthalmic history taking, cataract, (its causes, types, investigation and management), ocular emergencies, an introduction to pharmacology and the pupillary pathways.

14130 Clinical Studies I  
*Inter-semester - 48 hours (2 weeks)*  
One session will be conducted as a community placement to enhance community skills between the student and various population groups unfamiliar to the student e.g. preschools and nursing homes. The second session will introduce the student to a variety of clinical situations encountered by the orthoptist with an emphasis on student observation.

Year 2

10297 Behavioural Science II  
*Semester 1-42 hours*  
*Semester 2-42 hours*  
This subject is made up of six units which develop themes introduced to students in Behavioural Science I. These units are: patients, work and organisations; developmental disability; life stress; behaviour therapy; visual perception and learning disability; and social psychology.

10298 Research Methods and Statistics  
*Semester 2-42 hours*  
This subject is designed to provide the health science student with an understanding of basic research and statistical methods and practical applications relevant to clinical practice. The focus is on statistical reasoning and extracting meaning from data. Extensive use is made of modern computer software to achieve this. The broad areas discussed are: methods for data exploration and description; strategies for data collection; statistical inference and estimation. Statistical description methods comprise numerical and graphical methods for one and two variable models including control charts and regression models. Rationales for sampling, observational and experimental designs for data production are discussed. Inferential methods including estimating with confidence and tests of significance are introduced for one and two samples using both the normal and student-t distribution.

10299 Research Methods and Designs  
*Semester 1-42 hours*  
This subject aims to extend students' knowledge of statistical research by defining key approaches, methods and designs by which research is undertaken, particularly within the health professions. It incorporates an outline of the research process which will guide students through the completion of a simple descriptive study. Students will extend their basic skills related to instrument design, data collection and data analysis.

112B1 Introductory Pathology  
*Semester 1-28 hours*  
*Pre-requisite*: Introductory Human Biology (11176)  
This is an introduction to microbiology and immunology, including microorganism structure, classification and growth, sterilisation and disinfection, nosocomial infections, selected infectious diseases and their transmission, immunology of cancer, transplantation rejection and immunological disorders. There is also a discussion of neoplasia.

112B2 Ocular Biology  
*Semester 1-42 hours*  
*Pre-requisite*: Neurobiology I (11179)  
This subject covers the structure of the eye and orbit, autonomic control of the eye, intraocular fluid and pressure, transparency of ocular media and signal processing in the retina.

112B4 Visual Neurobiology  
*Semester 2-70 hours*  
*Pre-requisite*: Neurobiology I (11179)  
In this subject, the structure and function of the visual pathways are described, along with the psychophysics and physiology of binocular vision. The ocular motor system is also studied.
14250 Disorders of the Visual System IIA
Semester 1-42 hours
Pre-requisite: Disorders of the Visual System IA (14128) OR Disorders of the Visual System IB (14129)
Pre or Co-requisite: Instrumentation II (14248)
In this subject inflammatory disorders of the eye, disorders of the anterior segment are studied, along with minor surgical procedures, ophthalmic photography, pharmacology, and contact lenses.

14249 Concomitant Strabismus A
Semester 1-42 hours
Pre-requisite: Binocular Vision (14127)
Pre I Co-requisite: Instrumentation II (14248)
Effect of refractive errors on ocular alignment, and anomalies of accommodation and the accommodation/convergence synkinesis which result in concomitant strabismus are studied, along with assessment and management of these conditions.

Year 3

11383 Visual Science I
Semester 2-84 hours
This subject introduces embryology and covers a variety of relevant issues in neurobiology and neuro-ophthalmology. There is a discussion of bio-electricity and digital signal processing preparatory to the study of visual electrodiagnosis. Finally, a substantial component is devoted to the use of computers in orthoptic practices.

14335 Clinical Studies III
Semester 1-15 weeks
Pre-requisite: Clinical Studies II (14247)
Pre I co-requisite: Disorders of the Visual System HA (14244) or Disorders of the Visual System IIB (14246), Instrumentation II (14248), Concomitant Strabismus A (14249) or Concomitant Strabismus B (14245), Clinical Project (14336)
Experiences encountered will consolidate theory presented in the program thus far and will especially relate to the second year subjects Instrumentation II, Concomitant Strabismus A & B and Disorders of the Visual System HA and HB. Students will be required to maintain a close liaison with the clinical co-ordinator and attend case analysis sessions at the School. Students will also carry out a clinical project during this placement.

14336 Clinical Project
Semester 1-32 hours
Co-requisite: Clinical Studies III (14335)
Students will carry out structured clinical exercises in one or more of the following areas: Visual field testing, strabismus/binocular vision, retinoscopy

14337 Ocular Motility Disorders I
Semester 2-42 hours
Pre-requisite: Concomitant Strabismus A (14249) or Concomitant Strabismus B (14245)
Pre I Co-requisite: Instrumentation III (14340)
The causes, special investigations and management of inconcomitant squint resulting from restrictive (mechanical) disorders and congenital syndromes will be studied.
14338 Disorders of the Visual System III
Semester 2-42 hours
Pre-requisites: Disorders of the Visual System IIA (14244) or Disorders of the Visual System IIB (14246)
Pre I co-requisite: Instrumentation III (14340)
Paediatric syndromes resulting in visual or ocular motor disorders are studied, along with their relationship to embryology and genetics

14339 Rehabilitation Studies I
Semester 2-42 hours
Pre I co-requisites: Disorders of the Visual System IIA (14244) or Disorders of the Visual System IIB (14246)
Instrumentation III (14340)
The management of children with permanent visual impairment, learning difficulties, and the orthoptist's role in the management of children with developmental delay are studied

14340 Instrumentation III
Semester 2-28 hours
Pre I co-requisites: Disorders of the Visual System IIA (14244) or Disorders of the Visual System IIB (14246) Ocular Motility Disorders I (14337)
The instrumentation and special procedures appropriate to the subjects Ocular Motility Disorders I, Disorders of the Visual System III and Rehabilitation Studies I studied, with the emphasis on developing skills in small groups. These skills include those of electrophysiology, fluorescein angiography, photography, colour vision, and B scans

14341 Elective Study
Semester 2-42 hours
Students may select an approved study, either from within the School of Orthoptics, or from another School/Department from the Faculty of Health Sciences. The choice of study will be dependant on availability and timetabling constraints.

Year 4
(for students who commenced first year of the 3 1/2 year course in 1992 or earlier)

14401 Integrated Studies
Semester 1-112 hours
Pre-requisite: Ocular Motility Disorders A (14329) or B (14330)
The aim of this subject is to enable the student to examine and, where appropriate, to treat subjects with a wide variety of ocular and visual disorders. Thus the skills of the previous three years will be integrated and reinforced within the context of total patient management. Also complex problems related to management of a professional practice will be introduced.
Students will examine problems in the management of an Orthoptic clinic, including legal and ethical problems, professional expectations, problems in establishing an Orthoptic practice, and problems in communication with allied professions. Students will also apply research methodology and data analysis techniques to a small group project.
This subject will be presented in conjunction with the Department of Behavioural Sciences.

14402 Clinical Studies IV
Pre-semester -112 hours
Semester 1-168 hours
Pre or Co-requisite: Integrated Studies (14401)
Provides the practical/clinical support for Integrated Studies. Students will conduct the off-campus component of their research investigations in this subject.

Honours Programme
General policies relating to the Honours Programme are presented in Chapter 3. For information specific to the Orthoptics Honours Programme students are advised to contact the Secretary for the School of Orthoptics.

Selection criteria
Applicants will be selected on the basis of their academic record and research interests.

1. Honours programme 1406
for students who enrolled in the pass programme in 1992 or earlier.
Students in the Honours Programme complete all Year 3 subjects in the Pass Programme ((1404) and complete the following fourth year programme:

10464 Research Statistics
Semester 2-28 hours
This subject is designed to support the specific needs of students in the analysis and interpretation of their research thesis data. Its principle aims are to extend and consolidate each student's grounding in specific statistical procedures, particularly those that will be relevant for their own research project.
14403 Advanced Case Studies  
*Semester* 1-12 hours  
Problem solving of real and simulated complex clinical situations including those incorporating legal, ethical and moral issues relevant to practice. In this component complex, case studies will be introduced in order to challenge the student's broad knowledge and clinical skills developed throughout the course. A high standard in the above area and in independent learning skills will be assumed.

14404 Research Elective  
*Semester* 1-28 hours  
The student will gain additional knowledge and clinical skills through self-directed learning in an elective area of interest to the student. This unit would normally provide a theoretical and clinical framework for the research project.

14406 Thesis  
This subject contains no formal teaching sessions. Honours students will, in consultation with their supervisors, develop a programme of independent study consisting of a review of relevant literature, experimental design and hypothesis formation, data collection, data analysis and presentation, interpretation and discussion of findings and seminar presentations.

After completing this subject, students will have completed a significant research project, interpreted and reviewed their findings within the current literature and presented their work in the form of an acceptable thesis.

14407 Clinical Studies IV (Honours)  
*Pre-semester* -112 hours  
*Semester* 1 - 168 hours  
This subject provides clinical support to the subjects Advanced Case Studies, Research Elective and Thesis, in which the advanced clinical problem solving will be practised in a context of total patient management.

The problems will involve complex and unusual conditions. The skills from all three years will be consolidated and additional parameters relating to legal, ethical and moral issues will be emphasised. In addition, the provision of an appropriate clinical environment will allow for information and data collection for the case studies and research elective and for collection of research data.

2. Honours programme 1411  
for students who enrolled in the four year pass programme (1410)

**Year 3**

Honours students will enrol in the pass subjects Ocular Motility Disorders I (14337), Disorders of the Visual System III (14338), Rehabilitation Studies I (14339), Instrumentation III (14340), Visual Science 1 (11383) and Clinical Studies III (14335) in addition to the following subjects:

103A6 Research Statistics  
*Semester* 2-42 hours  
In this subject, students will extend and consolidate the research methods and statistical skills acquired in the second year research courses and will provide the foundation for the statistics which may be used in the Honours research project.

14342 Clinical Project (Honours)  
*Semester* 1-40 hours  
Students will carry out a structured clinical project in the areas of visual field testing, strabismus/binocular vision and retinoscopy. This project will incorporate principles of correct sampling techniques and statistical analyses of data.

14343 Research Proposal  
*Semester* 1-14 hours  
*Semester* 2-42 hours  
Students will develop in detail the area of research for their thesis. The emphasis in this subject will be a critical analysis of available literature, the development of a research proposal, and the presentation of these to a critical audience.

**Year 4 (To be first offered in 1995)**

Honours students will enrol in the pass subjects Ocular Motility Disorders II (14408), Disorders of the Visual System IV (14409), Rehabilitation Studies II (14411), Visual Science 2 (11467) and Clinical Studies IV (14416) in addition to the following subject:

14415 Research Thesis  
*Semester* 1 & 2  
Students will proceed to the implementation stage of the research project, which will include acquisition of data, analysis of results, the preparation of a research report and the presentation of results to a critical audience. Special clinical placements may be arranged in order to meet the needs of the project, where appropriate, some of these hours may be credited to the subject Clinical Studies 4.
## Table 12.2 Master of Applied Science (Orthoptics)

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### Notes

¹ Students with an Honours level may apply for advanced standing in the subjects Professional Elective, Advanced Research Methods and Research Elective, enabling them to enrol in the subject Research Thesis in the first year of the programme.

² Elective Research Subject: Students select one of the following (subject to sufficient student numbers) in consultation with their supervisors:

- 08501 Epidemiological Research
- 08502 Evaluation Research
- 10504 Quantitative Research Methods
- 10505 Qualitative Research Methods
- 11501 Biological Measurement and Analysis

³ Students may elect to enrol in Research Elective in Years 1 or 2, subject to availability and timetabling constraints.
Master of Applied Science (Orthoptics)

The Master of Applied Science (Orthoptics) is a research degree designed to provide opportunities for research and scholarship in specific areas of applied visual sciences.

Admission Requirements

Pass level entry

Applicants should possess either:

1. A Bachelor of Applied Science in Orthoptics from the Faculty of Health Sciences, The University of Sydney,
2. A Bachelor of Applied Science deemed to be equivalent to the above,
3. A Diploma of Applied Science in Orthoptics from Cumberland College of Health Sciences PLUS other evidence of professional development or qualifications as will satisfy the Graduate Studies Committee that the applicant possesses the educational preparation and capacity to pursue graduate studies,
4. Possess such qualifications as are deemed to be equivalent to (1) and/or (2) and (3).

Applicants with a Dip App Sc would normally be required to complete a qualifying programme as prescribed by the Graduate Studies Committee.

Honours entry level

Applicants who have completed an approved Bachelor degree at Honours level, can be admitted to the programme. They will not be required to complete a qualifying programme.

Time Limits

The minimum length for a pass level entry will be four semesters full time, or six semesters part time, exclusive of any qualifying programme. The maximum length would normally be six semesters full time and ten semesters part time.

The minimum length for an honours level entry will be two semesters full time or four semesters part time, with the maximum length six semesters full time and eight semesters part time.

Course Outline

The Course Outline for the Master of Applied Science (Orthoptics) is presented in Table 12.2, page 11.

Subject Descriptions

14900 Special Programme - Orthoptics

The Special Programmes are devised to meet individual needs. They are not subjects in the normal sense and do not necessarily involve a common syllabus and should not be compared between individual cases.

10503 Advanced Research Methods

Semester 1 - 42 hours

In this subject, students will extend and consolidate the research methods and statistical skills acquired at the undergraduate level.

14501 Professional Elective

Total - 56 hours

The aim of this subject is to allow the student to undertake an advanced study of the theoretical and empirical bases of the intended area of research. The structure of this subject will be determined by the student's needs and individual learning styles.

14502 Research Proposal

Total - 42 hours

The information gained from the professional elective subject will be developed into a formal research proposal which would normally form a substantial contribution to the introductory section of the research thesis. Successful completion of this proposal will be required before enrolment in the subject Research Thesis.

14503 Research Thesis

The research thesis forms the major component of the programme. Students are given the opportunity to investigate in depth an area of specialised interest in orthoptics, or a closely related subject. Each student will work with a supervisor or supervisors who will guide them through each stage of the study and the preparation of the thesis.

Thesis seminars will form an integral part of the programme. They will provide a forum for the students to present progress reports on their research and will encourage the free exchange of critical comment on theoretical constructs, methodologies and analysis of results. These seminars will be developed both within the School of Orthoptics and the wider context of postgraduate seminars of the Faculty of Health Sciences.

14504 Professional Elective

Total - 56 hours

The aim of this subject is to allow the student to undertake an advanced study of the theoretical and empirical bases of the intended area of research. The structure of this subject will be determined by the student's needs and individual learning styles.

Research Elective

This elective enables students to study a specific research method which is appropriate to their area of interest. For Research Elective subject descriptions, see Appendix 1.
Clinical Education
Clinical Education comprises approximately one third of the course. Most of this occurs off-campus within the eye clinics in the public hospitals and in private practices sponsored by Ophthalmologists, approximately 50 locations in all. Clinical experiences are supported by case study reports and Faculty-based clinical tutorials. Clinical supervision is provided by clinicians and designated clinical supervisors. Opportunities exist for students to elect to do a country, interstate or overseas placement depending on availability.

It is a requirement that all students obtain a certificate of competency in Cardiopulmonary Resuscitation (CPR). This must be completed and evidence of competency shown BEFORE commencing the FIRST CLINICAL PLACEMENT in 2ND YEAR. St John Ambulance courses on CPR are available through the metropolitan and country areas. Life-saving certificates of CPR competency will also be accepted.

Any enquiry regarding the clinical education programme of the School should be directed to the school's Clinical Co-ordinators, Ms Liane Wilcox (646-6529) or Ms Ngaire Willshir (646-6529).

1995 Clinical Practice Dates
The clinical blocks for 1995 are scheduled as follows:

Year 1
July 17 - July 28

Year 2
Jan 23 - Feb 24 OR June 19 - July 14

Year 3
Feb 27 - June 16

Year 4 (old course)
November 27 (1994) - February 24

In addition, Year 4, students are allocated clinical placements during semester time.

Uniforms
Students in the orthoptics course are required to obtain uniforms to be worn at most clinical placements. A faculty name badge available from the Student Union is to be worn at all clinical placements.

Female
Regulation navy blue uniform or culottes and white shirt
Navy cardigan
Stockings
Navy blue or black, plain shoes (e.g. court shoes)

Male
Navy Pants and White Shirt
Navy Tie
Navy blue jacket or cardigan
Navy blue or black closed in flat heeled lace up shoes

Arrangements will be made during Semester 1 for a representative of the supplier to come to the Student Union to take uniform orders. Please leave purchase of the uniforms until this time. First year students will require uniforms for their inter-semester clinical placement commencing 17 July 1995.
Physiotherapy is a health profession which deals with the prevention, assessment and treatment of human movement problems. Physiotherapy services are used in a wide variety of areas such as health care organisations, schools, private practices, community and workplace settings. The physiotherapy profession is committed to continued research into its fundamental concepts and activities, effective communication with members of the health team and community at large, the continuing education of its graduates and the evaluation of physiotherapy services to ensure the optimum quality of care and the development of the base of the profession. Staff and students of the School are actively involved in a number of research projects. These range over several areas including the investigation of human motor performance, musculoskeletal physiotherapy, neurological physiotherapy, occupational health issues, clinical reasoning, cardiopulmonary physiotherapy and physiological regulation.

As one of the foundation schools of the Faculty of Health Sciences (formerly Cumberland College of Health Sciences) at the College's inception in 1975, the School of Physiotherapy has played an important role in the development of the Faculty and its academic programmes. Prior to 1975, there was a physiotherapy programme in New South Wales from 1907.

One of the major goals of the School is graduating competent beginning physiotherapists. To this end, the School's Undergraduate Studies Committee has reviewed the undergraduate programme in relation to each of the Physiotherapy Competencies recently formulated by the physiotherapy profession in Australia. This Committee has ensured that each of these competencies is addressed in the curriculum. Reference to specific competencies is made in statements of subject aims and objectives e.g. instudent manuals.

The School has a strong commitment to achieving quality in all areas of endeavour. To achieve this goal the School has utilised findings from evaluation of our academic programmes and research projects in the development of these programmes. This evaluation has involved seeking and receiving critical appraisal from various sources including student, teacher, peer and external evaluation, from External Advisory Committees and members of the physiotherapy profession, from national and international colleagues and from members of this and other faculties of the University.
The School of Physiotherapy currently offers two undergraduate programmes (pass and honours bachelor degrees). The honours programme is available to students completing their second year of the undergraduate programme who have met the eligibility criteria and quota for admission to the Honours Programme. Fourteen graduate programmes are conducted by the School. These include coursework programmes in the areas of manipulative, cardiopulmonary, neurological, paediatric and sports physiotherapy, as well as occupational health, and research programmes at masters and doctoral levels.

In relation to School of Physiotherapy subjects, enrolment in a subject is normally dependent upon the student meeting the entry requirements for the programme in which the subject is offered. For miscellaneous (or non-award) students, the School may agree to enrol an applicant in a subject offered by the School, providing that the applicant has the required Pre-requisite knowledge to study the subject and there is sufficient space in the class room and tutorial group to accommodate the applicant without prejudicing other students’ performance. For students enrolled in a recognised tertiary programme at another institution, a cross-institutional enrolment may be permitted in a School of Physiotherapy subject, providing the subject is approved by the home institution, the applicant satisfies the Pre-requisite subjects and/or can demonstrate the Pre-requisite knowledge to study the subject, and resources are available to support the enrolment in the subject.

Enquiries regarding academic programmes should be directed to the following:
Administrative staff: Ext. 6543.
The Undergraduate Programme Coordinator: Ms Pat Westwood (Ext.6548)
The Honours Programme Coordinator: Ms Elfreda Marshall (Ext.6273)
The Postgraduate Coursework Programmes Coordinator: Ms Elizabeth Henley (Ext. 6268)
The Research Masters Programme Coordinator: Dr Sharon Kilbreath (Ext. 6272)
The PhD Programme Coordinator: Dr Jack Crosbie (Ext. 6549)
### Table 13.1 Bachelor of Applied Science (Physiotherapy)

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**B) For students commencing enrolment in 1994**

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### C) For students commencing enrolment in 1993

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#### Year 4 1996

| 10457   | Health, Medicine and Society              | 28          | 28    |       |
| 10479   | Health Psychology                         | 42          | 42    |       |
| 16444   | Physiotherapy in Neurology III            | 39          | 15    | 24    |
| 164G0   | Cardiopulmonary Physiotherapy III         | 24          | 14    | 10    |
| 164F4   | Musculoskeletal Physiotherapy IV          | 32          | -     | 32    |
| 164C9   | Topics in Physiotherapy IV                | 50          | -     | 50    |
| 164F5   | Research and Investigation II             | 30          | 10    | 20    |
| 164F6   | Research and Investigation III            | 51          | 10    | 41    |
| 164F7   | Clinical Education III A                 | 190         | 190   |       |
| 164F8   | Clinical Education IIIB                  | 190         | 190   |       |
| 164F9   | Clinical Education IIIC                   | 190         |       | 190   |

### D) For students commencing enrolment in 1992

#### Year 4 1995

| 10457   | Health, Medicine and Society              | 28          | 28    |       |
| 16444   | Physiotherapy in Neurology III            | 39          | 15    | 24    |
| 164F3   | Cardiopulmonary Physiotherapy III A       | 24          | 14    | 10    |
| 164F4   | Musculoskeletal Physiotherapy IV          | 32          | -     | 32    |
| 164C9   | Topics in Physiotherapy IV                | 50          | -     | 50    |
| 164F5   | Research and Investigation II             | 30          | 10    | 20    |
| 164F6   | Research and Investigation III            | 51          | 10    | 41    |
| 164F7   | Clinical Education III A                 | 190         | 190   |       |
| 164F8   | Clinical Education IIIB                  | 190         | 190   |       |
| 164F9   | Clinical Education IDC                    | 190         |       | 190   |
Bachelor of Applied Science (Physiotherapy)
The current undergraduate programmes are 4 year full-time programmes. These lead to a Bachelor of Applied Science (Physiotherapy) (Pass) degree and a Bachelor of Applied Science (Physiotherapy) (Honours) degree and aim to equip students with the appropriate knowledge, skills and attitudes to work effectively as members of the physiotherapy profession. Graduates of the full-time programme who complete all required components are eligible for registration as Physiotherapists with the Physiotherapists' Registration Board of N.S.W.

Admission Requirements
There are no specific Pre-requisites to the Bachelor of Applied Science (Physiotherapy) programme. As most students will be interacting with computers during their programme, experience in the use of computers would be an advantage. Assumed knowledge includes one of 2u Physics and 2u Chemistry or 3u Science or 4u Science. Students who have not completed these studies recently are advised to consider attending one or more of the pre-semester bridging programs offered by the Faculty of Health Sciences. Please refer to the General Admission Requirements in Chapter 3 (page 3-1) and the section on Bridging Courses in Chapter 3 (page 3-4). Applicants who are not sitting the current NSW HSC examination may be required to demonstrate other entry criteria (e.g. completion of a degree) and maybe asked to complete a questionnaire specified by the Faculty. Data derived from such questionnaires will be used in the selection process. "Category B" Enrolment Information Sheets can be obtained from the School which outline this procedure.

Physiotherapy is a physically demanding profession which requires for its practice the development of a range of precise physical skills. Prospective students should be aware that they will be expected to carry out and have carried out upon themselves as simulated patients, all the examination and treatment procedures used by physiotherapists. Such practical classes may involve partial disrobing. Participation in these classes is a requirement of the programme.

Any prospective students who think they may have a consideration, condition or disability which may interfere with the development or practice of physical skills, or with participation in clinical education should consult the Head of the School of Physiotherapy before commencing the program.

HIV, Hepatitis B or C
The NSW Department of Health has issued guidelines which prevent health care workers and students who have HTV or HBe Ag from performing any procedures that are defined by the Department as being "exposure-prone". Students need to be aware of these guidelines because some physiotherapy procedures fall within the Department's definition of "exposure-prone procedures". This means that a student with HTV, or HBeAG may be limited in the range of procedures he or she can perform and there might be an impact on professional registration.

Students need to be aware that policies in this area are subject to regular review and could change at any time.

Students wanting further information are encouraged to read the Faculty's booklet Infectious Diseases and You which is provided to all students. The booklet includes a copy of the Department of Health's guidelines. Students are also welcome to contact the following persons to discuss any queries or concerns. All queries will be treated as confidential.

Dr Ken Wade
Director
Student Services (Cumberland)
Ph: 646-6236

Mrs Neryla Jolly
Chair
Clinical Education Sub-Committee
Faculty of Health Sciences
Ph: 646-6251

Programme Outline
The Programme Outlines for the Bachelor of Applied Science (Physiotherapy) are presented in Tables 13.1 and 13.2.

Note: Students will normally complete all subjects listed in the sequence in which they appear in the Faculty Handbook. Permission to alter this sequence must be obtained from the Head of School. Non-standard students who are completing subjects from more than one year of the programme are required to seek permission to enrol in particular subjects from the designated Academic Programme Advisers in the School. This will ensure that students' programmes are not severely handicapped by an inappropriate or unmanageable combination of subjects.

Subject Descriptions
(Note: Subject descriptions are listed as for the 1995 commencing program. Subject descriptions for previous years can be found in previous years' Handbooks.)
Year 1

101A4 Psychology of Human Performance
Semester 1-42 hours

101A5 Research Methods and Statistics I
Semester 1-42 hours
This subject is designed to provide the health science student with an understanding of basic research and statistical methods with practical applications relevant to clinical practice. The focus is on statistical reasoning and extracting meaning from data. Extensive use is made of modern computer software to achieve this. The broad areas discussed are: methods for data exploration and description; strategies for data collection; statistical inference and estimation. Statistical description methods comprise numerical and graphical methods for one and two variable models including control charts and regression models. Rationales for sampling, observational and experimental designs for data production are discussed. Inferential methods including estimating with confidence and tests of significance are introduced for one and two samples using both the normal and student-t distributions.

101A6 Psychology of Motor Behaviour
Semester 2-28 hours
Pre-requisite: Psychology of Human Performance (101A4)
Information processing and the human sensory-motor system, stages of skill acquisition, motor development, age and skill, automatic versus conscious motor control, expert-novice skill differences, ecological and motor programme approaches, motor learning and rehabilitation settings, operant applications, biofeedback and behaviour modification, hemispheric specialisation, handedness, vision and kinesthesia in motor control.

11158 Introductory Human Biology
Semester 1 - 60 hours
This subject will present aspects of the basic chemistry, biochemistry and physiology which underlie the normal function of the human body. The topics considered include general cellular structure and function, cell metabolism, protein synthesis, cell division and the principles of homeostasis and blood.

11161 Body Systems I
Semester 2-56 hours
Pre-requisite: Introductory Human Biology (11158)
This subject will present the anatomy and physiology of the cardiovascular, respiratory and digestive systems. The subject includes laboratory classes where the subject is studied from human cadavers. Attendance at such classes is required for the subject.

11172 Functional Anatomy A
Semester 1-62 hours
This subject will cover the gross anatomical structure of the upper limb and histology of the musculoskeletal system. In addition, fundamental mechanical principles of human movement will be presented. The subject includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

11173 Functional Anatomy B
Semester 2-54 hours
Pre-requisite: Functional Anatomy A (11172)
This subject will present the gross anatomical structure of the lower limb, trunk, head and neck. In addition embryological development of the musculoskeletal system will be covered. The subject includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

11191 Introductory Neurobiology
Semester 1-31 hours
Co-requisite: Introductory Human Biology (11158)
This subject introduces the student to the basic structure and function of the nervous system, and the physiology of nerve, receptors, synapses and neuromuscular transmission. The structure, contractile process, muscle mechanics and biochemistry of skeletal and smooth muscle are covered. The subject includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

11192 Neurobiology I
Semester 2-31 hours
Pre-requisites: Introductory Neurobiology (11191), Introductory Human Biology (11158)
This subject covers spinal reflex mechanisms, as well as the structure and function of the somatosensory system. There is also a discussion of the autonomic nervous system. The subject includes laboratory classes in which human cadavers are studied; attendance at such classes is required.

16113 Electrophysical Agents I
Semester 2-42 hours
Assumed knowledge: Functional Anatomy A (11172) and Functional Anatomy B (11173).
This subject involves the student in the study of the physical basis and physical consequences of various electrophysical modalities. It provides the student with the opportunity to develop basic knowledge and skills in the safe and effective use of a range of modalities for pain modulation and neuromuscular improvement. The topics studied include conductive heating and cooling, ultrasound, pressure therapy and laser.
16115 Kinesiology I
Semester 1-24 hours
Semester 2-40 hours
Co-requisites: Functional Anatomy A (11172), Functional Anatomy B (11173), Psychology of Motor Behaviour (101A6)
This subject will provide the student with a comprehensive understanding of normal movement. The student will learn to collect and interpret information about normal motor function using a wide range of methods from descriptive to quantitative. Modules cover the observation and measurement of everyday tasks, measurement of joint range and muscle length, measurement of muscle strength and the development of motor behaviour in infants. Material presented in this subject will be integrated with material presented in Musculoskeletal Anatomy and Behavioural Sciences.

16116 Musculoskeletal Physiotherapy I
Semester 2-48 hours
This subject aims to introduce students to musculoskeletal physiotherapy. Students will study the structure and function of the normal musculoskeletal system and the response of the system to trauma and disease. Principles of medical and physiotherapy management of musculoskeletal disorders will also be covered. Students will learn how to take a history and to perform selected physical examination and management procedures.

16117 Topics in Physiotherapy I
Semester 1-36 hours
This subject has two topic areas, namely the Australian Health Care System and Teaching and Learning Skills. In the first topic area, via a series of lectures, students will be introduced to legal and ethical issues in health care, principles of documentation, health service organisations and professions. The second topic area, Teaching and Learning Skills, in seminar format will cover: trends and issues in higher education, group theory and practice; self-directed learning and learning styles; effective utilisation of library facilities; writing skills; seminar presentation skills; the skills in seeking, receiving and giving feedback; interviewing skills. Links between these two topic areas will be made as these links will assist the student to think and act as a physiotherapist. Because of this linkage it is unlikely that advanced standing will be granted for this subject.

Year 2

10288 Social Interaction, Communication and Personality
Semester 1-42 hours
Pre-requisite: Psychology of Motor Behaviour (101A6)
This subject addresses the issue of the patient, the therapist and the social setting in which they interact. Topics covered are: personality and health, psychopathology and personality disorder, substance abuse; person perception and attribution theory, decision strategies and social dilemmas, obedience and authoritarianism, attitudes, stereotypes and prejudice, verbal and non-verbal behaviour in social interaction, attraction and love, social influence processes and small group dynamics; characteristics of effective communication with different client groups, strategies for enhancing therapeutic outcomes at different developmental levels, working with relatives and other health professionals.

11286 Body Systems II
Semester 2-28 hours
Pre-requisite: Body Systems I (11161)
This subject will present the anatomy and physiology of the renal system, the concepts of fluid and electrolyte balance and acid-base balance, the regulation of breathing. In addition, the current concepts on the body's defences and barriers to disease and tissue repair mechanisms will be considered.

11287 Neurobiology II
Semester 1-58 hours
Pre-requisite: Neurobiology I (11192)
This subject considers the anatomy and physiology of special sensory systems and the control and integration of somatic motor activity and of autonomic function. The higher functions and adaptive properties of the nervous system are also examined, as well as the physiology of pain and pain relief techniques. Considerable emphasis is placed on the anatomical and physiological basis of neurological problems throughout the subject. The subject includes laboratory classes where tissues from human cadavers are examined in detail. Attendance at such classes is required for the subject.

11288 Biomechanics
Semester 1-40 hours
This subject has three parts. The first part covers the theory of dynamics with particular application to human bodies and follows on directly from the kinematics studied in 11172 and 11173. The second part deals with the active and passive mechanical behaviour of body tissues while the third part considers specific applications of biomechanics of topics of interest to physiotherapists.
16116 Kinesiology I
Semester 1 - 14 hours
Pre-requisite: Functional Anatomy A (11172)
This subject provides the opportunity for the student to utilise the skills acquired in Kinesiology I by comparing abnormal motor behaviour with a normal model. Students will be required to collect data, organise the information and write up a report.

16223 Physiotherapy in Neurology I
Semester 2 - 24 hours
Co-requisite: Neurobiology I (11192)
Physiotherapy in Neurology aims to develop in the student the ability to apply relevant theoretical and data-based scientific findings to clinical practice, particularly in the area of movement dysfunction associated with disease and trauma to the central nervous system. The emphasis is on encouraging students to become independent learners, to analyse their own performance, to measure the outcome of their clinical interventions and to initiate and respond to the need for change. This subject introduces students to the theoretical framework for physiotherapy in neurological rehabilitation. Students study training everyday actions based on biomechanics, muscle biology and motor learning techniques.

16224 Cardiopulmonary Physiotherapy I
Semester 1 - 39 hours
Semester 2 - 24 hours
Pre-requisite: Body Systems I (11161)
This subject will introduce the student to the knowledge, skills and clinical decision-making process necessary for effective assessment and management of patients with respiratory and cardiac dysfunction. In particular, the student will evaluate the pathophysiological consequences of abdominal and morbid surgery, infective and inflammatory condition and airflow limitations on pulmonary function and impaired cardiac function on the cardiovascular performance. Additionally, the student will develop treatment strategies to effectively manage respiratory and cardiac problems identified in adults or children. There will be an emphasis on preventative management and the subject will provide the student with an opportunity to apply, integrate and extend knowledge gained in Year 1 Biological Sciences, Musculoskeletal Physiotherapy and Kinesiology.

16232 Musculoskeletal Physiotherapy II
Semester 1 - 76 hours
Semester 2 - 22 hours
Pre-requisites: Functional Anatomy A and B (11172 and 11173), Musculoskeletal Physiotherapy I (16116)
This subject aims to equip the student with the necessary cognitive and practical skills to effectively assess and manage, at a basic level, patients with selected problems within the peripheral musculoskeletal system. This subject will include components of rheumatology and paediatric musculoskeletal physiotherapy.

16226 Topics in Physiotherapy II
Semester 2 - 26 hours
Co-requisites: Clinical Education IA (16233) and IB (16234)
Students will continue their study of legal and ethical issues relevant to the health field. They will also study the principles and practice of quality activities in health care delivery. In addition, students will explore the process of clinical reasoning and the part this process plays in clinical decision-making. Tutorial sessions will explore the combined themes of ethics and communication. Here the student will review the use of communication to address common ethical dilemmas faced in clinical practice. It is unlikely that Advanced Standing will be granted for this subject since knowledge of the law and how it relates to physiotherapy practice must be current. Assumed knowledge: Social Interaction, Communication and Personality (10288) or its equivalent.

16233 Clinical Education IA
Semester 2 - 144 hours
Pre-requisite: Electrophysical Agents II (16231)
Co-requisites: Cardiopulmonary Physiotherapy I (16224), Musculoskeletal Physiotherapy II (16232)
This subject is equivalent in content to (16227) Clinical Education IA
This unit aims to develop the students' skills in managing outpatients with selected disorders of the peripheral musculoskeletal system and in some settings, disorders of the cardiopulmonary system. The emphasis in this unit is on the aspects of examination, analysis of information gained from the examination and the implementation of a treatment program.

16234 Clinical Education IB
Semester 2 - 144 hours
Pre-requisite: Electrophysical Agents II (16231)
Co-requisites: Cardiopulmonary Physiotherapy I (16224), Musculoskeletal Physiotherapy II (16232)
This subject is equivalent in content to (16228) Clinical Education IB
The aim of this unit is to provide an opportunity for the student to become effective (commensurate with his/her knowledge, skills and experience) and safe in managing patients who are admitted to general medical and surgical wards.

16231 Electrophysical Agents II
Semester 1 - 39 hours
Assumed knowledge: Functional Anatomy A (11172), Functional Anatomy B (11173), Kinesiology I (16115), Musculoskeletal Physiotherapy I (16116)
Pre-requisite: Electrophysical Agents I (16113)
This subject continues the study of electrophysical modalities commonly used in clinical practice for pain modulation and neuromuscular improvement. The topics studied include shortwave diathermy and transcutaneous electrical nerve stimulation for both sensory and motor responses and ultraviolet radiation.
Year 3

103B3 Research Methods and Statistics II
Semester 1-42 hours
Pre-requisite: Research Methods and Statistics I (101A5)
(For Students enrolled in Year 3 from 1996)
Factorial experimental designs, one-way and two-way analysis of variance, repeated measures; sampling, internal/external validity, instrument reliability and validity, ethics considerations, single case and small-N experimental methodologies, survey and databases and qualitative methodologies.

10398 Social Theory and Health
Semester 1-42 hours
This unit aims to develop an understanding of basic sociological concepts and their relationship to health care. The programme will increase the student's ability to critically examine and evaluate aspects of society with which they are familiar in order to extend their understanding of social structures, organisational contexts and processes relevant to health, illness and health care. Conceptually it will begin at the macro level of the health system and policy formulation and move to the micro level of the client and practitioner. In addition, the unit will extend student's knowledge of the methods of analysing and interpreting sociological data in the health area.

11374 Body Systems III
Semester 1-24 hours
Pre-requisite: Body Systems II (11286)
This subject will present the anatomy and physiology of the endocrine and reproductive systems, general principles of pharmacology, and the pharmacology of relevant body systems.

11375 Applied Physiology
Semester 1-26 hours
Semester 2-48 hours
Co-requisite: Body Systems III (11374)
The aim of this subject is to provide the student with an understanding of the responses that occur in men and women during exercise. This subject will build upon the principles and information provided in the earlier years of the programme and will also attempt to provide the student with an understanding of the exercise response in both healthy (e.g. marathon runners) and diseased populations (e.g. peripheral vascular disease patients). The approach will be integrative, with particular attention given to the regulation of the changes in the cardiovascular, respiratory, endocrine and metabolic systems during exercise.

16322 Musculoskeletal Physiotherapy III
Semester 1-70 hours
(For 1995 only)
Pre-requisite: Musculoskeletal Physiotherapy II (16232)
This subject aims to develop the cognitive and practical skills needed to manage, at a basic level, patients presenting with selected musculoskeletal disorders of the vertebral column. Students will apply the principles of management learnt in Musculoskeletal Physiotherapy II to selected musculoskeletal disorders of the vertebral column. They will study common pathologies affecting the vertebral column and appropriate medical and physiotherapy management.

16331 Musculoskeletal Physiotherapy III
Semester 1-70 hours
Semester 2-16 hours
(From 1996)
Pre-requisite: Musculoskeletal Physiotherapy II (16232)
This subject aims to develop the cognitive and practical skills needed to manage, at a basic level, patients presenting with selected musculoskeletal disorders of the vertebral column. Students will apply the principles of assessment and management learnt in Musculoskeletal Physiotherapy II to selected musculoskeletal disorders of the vertebral column. This subject will include a component of paediatric musculoskeletal physiotherapy.

16333 Cardiopulmonary Physiotherapy MA
Semester 1-36 hours
Semester 2-24 hours
(For 1995 only)
Pre-requisites: Body Systems II (11286), Cardiopulmonary Physiotherapy I (16224)
Co-requisite: Applied Physiology (11375)
The aim of this subject is to continue to develop knowledge and skills in the assessment and management of patients with cardiopulmonary dysfunction. The students will examine specific clinical and professional issues relating to the acute care environment and the cardiac patient population. The emphasis will be on preventative and treatment management, and the ongoing education of the patient, family, community and other health professions.
This subject further develops the students' knowledge of exercise, and aims to apply the principles of exercise testing, prescription and training. These principles will be applied to patients that have cardiac and pulmonary limitations to exercise. There will be further scope to apply the principles of exercise to patient groups with various medical disorders and to the normal population to promote health through seminar presentations.
16330 Cardiopulmonary Physiotherapy II
Semester 1-24 hours  
Semester 2-24 hours  
(From 1996)
Pre-requisites: Body Systems II (11286), Cardiopulmonary Physiotherapy I (16224)
Co-requisite: Applied Physiology (11375)
The aim of this subject is to continue to develop knowledge and skills in the assessment and management of patients with cardiopulmonary dysfunction. The students will examine specific clinical and professional issues relating to the acute care environment. The emphasis will be on preventative and treatment managements, and the ongoing education of the patient, family and other health professions.

This subject further develops the students' knowledge of exercise, and aims to apply the principles of exercise testing, prescription and training. These principles will be applied to patients that have cardiac and pulmonary limitations to exercise. There will be further scope to apply the principles of exercise to patient groups with various medical disorders and to the normal population to promote health through seminar presentations.

16320 Physiotherapy in Neurology II
Semester 1-42 hours  
Semester 1-IX hours
Pre-requisite: Physiotherapy in Neurology I (16223)
This subject introduces the study of the dyscontrol characteristics and problems arising from brain damage of acute onset, and from degenerative disease of the brain and spinal cord. Movement habilitation/rehabilitation of infants, children and adults will be explored in depth using the theoretical framework for physiotherapy in neurological rehabilitation studied in Physiotherapy in Neurology I. Students are introduced to specific techniques which have been shown to promote motor learning and the acquisition of skill in normal individuals and how to apply these in the clinic. Motor training techniques based on the biomechanical characteristics of linked segments and the characteristics of muscle will be studied.

16332 Clinical Education II
Semester 2-190 hours
Pre-requisites: Clinical Education IA (16233), Clinical Education IB (16234)
Co-requisites: Cardiopulmonary Physiotherapy II or HA (16330 or 16333) Physiotherapy in Neurology II (16320), Musculoskeletal Physiotherapy III or HIA (16331 or 16334).
This subject is equivalent in content to 16325 Clinical Education II
The student will build on the experience gained in Clinical Education IA and IB. The student will be expected to demonstrate an increased ability in managing the patient (assessment, treatment and evaluation). Professional practices will also be emphasised. The clinical placement will be in one of the following areas - neurological, cardiopulmonary, general and a musculoskeletal unit with special emphasis on the management of patients with spinal problems. Paediatric issues may be addressed in any of these areas.
(Note: Students failing Musculoskeletal Physiotherapy m or HIA (16331 or 16334) will be precluded from completing the Musculoskeletal module of Clinical Education II)

16323 Topics in Physiotherapy III
Semester 1-13 hours  
Semester 2-29 hours
This subject addresses particular community health issues in two strands. The first strand examines the health care needs for specific groups. The physiotherapist's contribution in a wide variety of speciality areas such as burns, AIDS, mental health, women's health, diabetes etc will be discussed. The second strand provides an overview of the principles and practice of health promotion. It is designed to give students a perspective of health promotion within a community based framework. Current issues in community based rehabilitation will also be addressed in this strand.

16324 Electrophysical Agents III
Semester 2-30 hours
Pre-requisite: Electrophysical Agents II (16231)
(For students enrolled in Year III during 1994 only. Students failing this subject will be enrolled in 16329 Research and Investigation I as a replacement subject.)
This subject continues to develop the students' understanding of current electrotherapy practice. The students will evaluate the theoretical basis and efficacy of common modalities used in the application of selected musculoskeletal conditions. In addition, students will be introduced to basic principles of bioinstrumentation.
16329 Research and Investigation I  
*Semester 2-30 hours*

*Pre-requisite:* Research Methods and Statistics II (10289 or 103B3)  
(For students enrolled in Year 3 from 1995)  
This subject is concerned with interpreting and using data which influences physiotherapy practice. Students will be introduced to some important epidemiological concepts before considering issues related to diagnosis, prognosis and aetiology of disorders treated by physiotherapists, and the rational allocation of physiotherapy services.

**Year 4**

10457 Health, Medicine and Society  
*Semester 1-28 hours*

This programme provides the basis for an understanding of emergent social issues relevant to physiotherapy and the relationship between health, medicine and society. It will cover health care in the pre-industrial societies and the Third World, cross-cultural views of health and illness, lay and expert interpretations of health and disease, the rise of western medicine, professionalism and bureaucratisation, health care organisations, division of labour in health care, alternative practitioners and holistic health, sexuality, the body and health, evaluating health care services and community care.

10479 Health Psychology  
*Semester 1-42 hours*

*I-requisites:* Social Interaction, Communication and Personality (10288)  
(For Students enrolled in Year 4 from 1996)  
This subject looks at behaviours which affect health, illness and recovery and involves areas such as: anxiety and health, mental phobias, obsessions and compulsions, social anxiety, cognitive and behavioural management of anxiety (assertiveness, cognitive restructuring, modelling, desensitisation), pain and injury, acute and chronic pain, behavioural pain management programmes, component analysis, paediatric pain, intellectual disability: diagnosis and assessment, specific cognitive impairments, behaviour problems and their management, normalisation and deinstitutionalisation; reaction to onset of illness and disability, attitudes of the able bodied and professionals to disability, strategies for changing negative attitudes, death and bereavement, medical and social aspects of childbirth, problems of particular disability groups, implications for rehabilitation.

16444 Physiotherapy in Neurology III  
*Semester 1-15 hours*  
*Semester 2-24 hours*

*Pre-requisite:* Physiotherapy in Neurology II (16320)  
This subject continues to examine the theoretical base for clinical intervention. It provides the opportunity for students to further develop their skill in relation to problems associated with lesions of the nervous system. The importance of modifying the environment to ensure that it either facilitates or inhibits specific behaviours will be examined in depth.

164F3 Cardiopulmonary Physiotherapy IIIA  
*Semester 1-14 hours*  
*Semester 2-10 hours*  
(For 1995 only)  
*Pre-requisite:* Cardiopulmonary Physiotherapy II (16321), Applied Physiology (11375)  
This subject further develops the students' knowledge of exercise, and aims to apply the principles of exercise testing, prescription and training. These principles will be applied to patients that have cardiac and pulmonary limitations to exercise. There will be further scope to apply the principles of exercise to patient groups with various medical disorders and to the normal population to promote health through seminar presentations.

164G0 Cardiopulmonary Physiotherapy III  
*Semester 1-14 hours*  
*Semester 2-10 hours*  
(From 1996)  
*Pre-requisite:* Cardiopulmonary Physiotherapy II (16321), Applied Physiology (11375)  
This course aims to further develop the students' understanding of cardiopulmonary dysfunction, the scientific basis for therapeutic intervention and the process of clinical decision making. Areas that will be addressed include the management of individuals with one or more of the following disorders - chronic/acute airflow limitation, cardiovascular disease, respiratory muscle dysfunction, cardiac and lung transplantation. There is an emphasis throughout the subject on self-directed learning and skills in presenting justification for clinical intervention.

164F4 Musculoskeletal Physiotherapy IV  
*Semester 2-32 hours*

*Pre-requisite:* Musculoskeletal Physiotherapy III (16322 or 16331) or Musculoskeletal Physiotherapy HIA (16334)  
This subject aims to further develop students' cognitive and practical skills necessary to competently manage patients presenting with more complex musculoskeletal disorders. Students will study practical and theoretical aspects of manipulative physiotherapy. This subject will enable students to integrate selected spinal and peripheral manipulative procedures into the overall management of a patient's problem. A further aim of this subject is to continue developing the student's ability to evaluate and draw implications from the literature in the area of musculoskeletal physiotherapy.
164C9  Topics in Physiotherapy IV  
*Semester 2* 50 hours  
Students will continue their study of professional issues and the health needs of selected populations. The subject will be taught in four strands. These include: Professional Practice; Occupational Health; Chronic Pain and Illness; The Elderly.

164F5  Research and Investigation II  
*Semester 1* 10 hours  
*Semester 2* 20 hours  
*Pre-requisite:* Research Methods and Statistics II (10289 or 103B3)  
(For students enrolled in Year 4 from 1995. This subject is equivalent to 16449 Research and Investigation A)  
In this subject students learn the skills required to prepare a research proposal. Students will work in small groups with a supervisor to develop a research proposal.

164F6  Research and Investigation III  
*Semester 1* 10 hours  
*Semester 2* 41 hours  
*Pre-requisite:* Research Methods and Statistics II (10289 or 103B3)  
(For students enrolled in Year 4 from 1995. This subject is equivalent to 16450 Research and Investigation B)  
In this subject students will evaluate clinical trials in physiotherapy. Students will apply knowledge and skills gained in prior research subjects, as well as in the various areas of physiotherapy practice. Each student will investigate an area of physiotherapy of their choice.

164F7  Clinical Education IIIA  
*Semester 1* 190 hours  
*Pre-requisites:* Clinical Education II (16332 or 16325), Musculoskeletal Physiotherapy III (16322 or 16331) or Musculoskeletal Physiotherapy IIIA (16334) (Note: students failing Musculoskeletal Physiotherapy III are precluded from undertaking the Musculoskeletal Module of Clinical Education IIIA, B or C).  
This subject is equivalent in content to 16465 Clinical Education IIA  
The student will continue clinical placements in the following areas - neurological, cardiopulmonary, general and a musculoskeletal unit with special emphasis on the management of patients with spinal problems. Paediatric issues may be addressed in any of these areas. Further integration, decision making and justification of patient management will be expected on progressive units.

164F8  Clinical Education IIIB  
*Semester 1* 190 hours  
*Pre-requisites:* Clinical Education II (16332 or 16325), Musculoskeletal Physiotherapy III (16322 or 16331) or Musculoskeletal Physiotherapy IIIA (16334) (Note: students failing Musculoskeletal Physiotherapy III are precluded from undertaking the Musculoskeletal Module of Clinical Education IIIA, B or C).  
This subject is equivalent in content to 16466 Clinical Education IIIA  
The student will continue clinical placements in the following areas - neurological, cardiopulmonary, general and a musculoskeletal unit with special emphasis on the management of patients with spinal problems. Paediatric issues may be addressed in any of these areas. Further integration, decision making and justification of patient management will be expected on progressive units.

164F9  Clinical Education INC  
*Semester 2* 190 hours  
*Pre-requisites:* Clinical Education II (16332 or 16325), Musculoskeletal Physiotherapy III (16322 or 16331) or Musculoskeletal Physiotherapy IIIA (16334) (Note: students failing Musculoskeletal Physiotherapy III are precluded from undertaking the Musculoskeletal Module of Clinical Education IIIA, B or C).  
This subject is equivalent in content to 16482 Clinical Education IIIA  
The student will continue clinical placements in the following areas - neurological, cardiopulmonary, general and a musculoskeletal unit with special emphasis on the management of patients with spinal problems. Paediatric issues may be addressed in any of these areas. Further integration, decision making and justification of patient management will be expected on progressive units.
### Table 13.2 Bachelor of Applied Science (Physiotherapy) Honours

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Mode of Offer</th>
<th>1622 Full-time, 4 years - Pass Programme</th>
<th>1642 Full-time, 4 years - Honours Course</th>
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**A) For students commencing Year 3 of Honours Programme in 1995**

Years 1 and 2 as per Pass programme (Table 13.1 C)

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**B) For students commencing Year 3 of Honours Programme in 1994**

Years 1 and 2 as per Pass Programme (Table 13.1D)

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Honours Programme

General policies relating to the Honours Programme are presented in Chapter 3.6. For information specific to the Physiotherapy Honours Programme students are advised to contact the School's Honours Programme Coordinator, Elfreda Marshall.

In order for honours students to have adequate time to pursue their research studies a number of modifications have been made to the pass programme for these students. These include: subject exemptions and additions (as outlined below), variation in clinical education subjects' timing and hours and timetabling flexibility (as outlined below).

Exemptions: Students in the Honours Programme complete all Year 3 and Year 4 subjects in the Pass Programme, except Research and Investigation I (16329), Research and Investigation II (164F5), and Research and Investigation IE (164F6) from which they are exempt.

Clinical Education: In Year 4 Honours students will complete three clinical education subjects which are similar in content and goals to the pass programme subjects. However, the first two subjects will vary in hours from the parallel pass subjects. That is honours students will complete 164G1 Clinical Education in HA instead of 164F7 Clinical Education HTA and will complete 164G2 Clinical Education IHHB instead of 164F8 Clinical Education HIB. They will also complete 164F9 Clinical Education IDC along with the pass students. Honours students should note that due to these concessions their total clinical hours are 1000 which is the minimum required clinical hours for course completion. Therefore, they will normally be required to make up any non-attended clinical hours.

Semester 7 Timetabling Flexibility: In Year 4 students are permitted (with support of their supervisors) to spread their Pass programme in Semester 7 over weeks 4-13 or concentrate these Pass programme studies in weeks 4-8 (with Group B of the Pass Students) or in weeks 9-13 (with Group A of the Pass Students) to allow for flexibility in accommodating the needs of different students' honours projects (e.g. in terms of data collection). This decision would be required before the end of Week 3 of Year 4, Semester 1.

Additional subjects: Honours students complete the following extra subjects: 10392 Research Statistics, 16319 Research for Physiotherapists, 16499 Honours Thesis and 164F2 Honours Research Seminar.

Subject Descriptions

See Pass Program subject descriptions for subjects in common withpass program. Special Honours subjects are as follows:

Year 3

10392 Research Statistics
Semester 2-28 hours
Pre-requisite: Research Methods and Statistics II (10289 or 103B3)
This subject provides the student with the opportunity to extend and consolidate the statistical skills acquired in the previous years of the programme and will provide the foundation for the statistics which may be used in the Honours research project. Topics to be covered include analysis of covariance, regression models and introductory multivariate analyses.

16335 Research for Physiotherapists
Semester 1-36 hours
Semester 2-32 hours
This subject will enable students to build on previous knowledge of research methods and develop skill in applying this to research models for physiotherapists. The subject will enable students to evaluate the suitability of assumptions made in physiotherapy related research, to evaluate design strategies used and their appropriateness for the research undertaken and to design and evaluate effective sampling procedures for a particular research project. By the time the student has completed the subject he/she will have prepared a written research proposal.

Year 4

164F2 Honours Research Seminar
Semester 1-36 hours
Semester 2-39 hours
Co-requisite: Honours Thesis (16499)
This subject supports Honours students with their ongoing research. It is intended that students will develop their presentation abilities, critical analysis skills and their understanding of the research process. This subject will also contain problem-solving sessions in which students can discuss problems arising in their projects.

16499 Honours Thesis
Co-requisite: Honours Research Seminar (164F2)
This subject provides Honours students with the opportunity to undertake an supervised research project in an area of physiotherapy. As part of this and other Honours subjects, each student will design and implement an approved research project and submit a thesis describing the project and its implications. While completing the research and thesis, each student will work closely with their supervisor.
164G1 Clinical Education IIIHA

Semester 1 - 152 hours

Pre-requisites: Clinical Education II (16325 or 16332), Musculoskeletal Physiotherapy III (16322 or 16331) or Musculoskeletal Physiotherapy IIIA (16334) (Note: students failing Musculoskeletal Physiotherapy III are precluded from undertaking the Musculoskeletal Module of Clinical Education HIA, B or C).

This subject is equivalent in content to 16465 Clinical Education IIA.

The student will continue clinical placements in the following areas - neurological, cardiopulmonary, general and a musculoskeletal unit with special emphasis on the management of patients with spinal problems. Paediatric issues may be addressed in any of these areas. Further integration, decision making and justification of patient management will be expected on progressive units.

164G2 Clinical Education IIIHB

Semester 1 - 180 hours

Pre-requisites: Clinical Education II (16325 or 16332), Musculoskeletal Physiotherapy III (16322 or 16331) or Musculoskeletal Physiotherapy IIIA (16334) (Note: students failing Musculoskeletal Physiotherapy III are precluded from undertaking the Musculoskeletal Module of Clinical Education HIA, B or C).

This subject is equivalent in content to 16466 Clinical Education III.

The student will continue clinical placements in the following areas - neurological, cardiopulmonary, general and a musculoskeletal unit with special emphasis on the management of patients with spinal problems. Paediatric issues may be addressed in any of these areas. Further integration, decision making and justification of patient management will be expected on progressive units.

Note: While enrolled in this subject honours students can negotiate with their honours project supervisor and their clinical education supervisor to be absent from their clinical placement for 10 hours during the placement to engage in honours studies and/or meetings with supervisors. (Thus this subject is 10 hours less than the parallel pass subject.)
### Table 13.3  Graduate Diploma of Applied Science  
(Manipulative Physiotherapy)

<table>
<thead>
<tr>
<th>Course Code</th>
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<td>1612</td>
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Programmes commencing in 1995:

#### Full-time Mode

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<td>11455</td>
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<td>11457</td>
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<td>16509</td>
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#### Part-time Mode

**Year 1  1995**

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<td>16508</td>
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**Year 2  1996**

<table>
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<th>Course Code</th>
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<td>16468</td>
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<tr>
<td>10458</td>
<td>Psychology</td>
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</table>

**Note**

<sup>1</sup> Clinical Manipulative Physiotherapy will be conducted as three afternoon sessions for ten weeks in Semesters 1 & 2.
Graduate Diploma of Applied Science
(Manipulative Physiotherapy)

Enquiries
Graduate Diploma Course Coordinator:
Grant McCormick (ext. 6385)
Masters Course Coordinator:
Elizabeth Henley (ext. 6268)

Manipulative Physiotherapy is a physically demanding course of study which requires for its practice the development of a range of precise physical skills. Prospective students should be aware that they will be expected to carry out and have carried out upon themselves as simulated patients, the examination and treatment procedures used by manipulative physiotherapists. Partial disrobing will be required in these classes. All students are required to provide the School of Physiotherapy with recent X-rays of their Cervical, Thoracic and Lumbar spines prior to the commencement of the spinal manipulation classes. Any prospective students who think they may have a condition disability which may interfere with the development or practise of manipulative physiotherapy skills should consult the Course Coordinator, Grant McCormick (ext. 6385) before commencing the course.

Admission Requirements
To qualify for admission to the Graduate Diploma of Applied Science (Manipulative Physiotherapy) applicants shall:

a) Possess an award of Bachelor of Applied Science (Physiotherapy) from the Cumberland College of Health Sciences or from The University of Sydney or

b) Possess an award of Bachelor of Science with a major in anatomy from the University of New South Wales and a Graduate Diploma in Physiotherapy from Cumberland College of Health Sciences, or

c) Possess such qualifications as are deemed to be equivalent to (a) and/or (b), or

d) Other evidence of general and/or professional qualifications as will satisfy the Postgraduate Studies Committee of the Faculty of Health Sciences that the applicant possesses the educational preparation and capacity to pursue graduate studies.

In addition, all applicants should normally have completed at least two years recent clinical experience in the management of musculoskeletal disorders, and be presently engaged in related clinical practice.

Selection
Selection, will take into account employment history, qualifications, continuing education and other professional development.

Subject Enrolment
Enrolment in all physiotherapy (16***) subjects is dependent upon the applicant being eligible to enrol in this course.

Progression
Progression from the graduate diploma to the masters programme, whether the student originally enrolled in the graduate diploma or the masters programme, will be dependent upon satisfactory performance in the graduate diploma subjects.

Course Outline
The Course Outline for the Graduate Diploma of Applied Science (Manipulative Physiotherapy) is presented in Table 13.3.

Subject Descriptions

10458 Psychology

Semester 2-14 hours
The aim of this subject is to further develop the students' understanding of psychological aspects of pain and loss of function, and psychological approaches to the management of stress, illness and pain.

16508 Scientific Investigation I

Semester 2-28 hours
This subject develops students' skills in analysis of data. It examines common statistical tests with the aim of enabling students to understand research papers as well as enabling them to choose appropriate statistical methods of analysing data. It also examines issues relating to measurement including reliability and validity. Students will have the opportunity to apply statistical tests to small data sets of measurement procedures that they will collect, or that have been previously collected.

11455 Anatomy and Biomechanics A

Semester 1-30 hours
This subject will further the students' understanding of the anatomy and biomechanics of the thoracic and lumbar vertebral column and the lower limb. The focus is on critical evaluation of existing manipulative physiotherapy procedures and on recent scientific developments of relevance to disorders of the musculoskeletal system.

11456 Anatomy and Biomechanics B

Semester 2-20 hours
This subject will further the students' understanding of the anatomy and biomechanics of the cervical and thoracic vertebral column and the upper limb. The focus is on critical evaluation of existing manipulative physiotherapy procedures and on recent scientific developments of relevance to disorders of the upper body.
11457 Neurophysiology and Pharmacology  
*Semester 1-25 hours*  
This subject focuses on the motor and sensory systems of neurophysiology and recent scientific developments in these areas. Special emphasis is given to the neurophysiological bases of pain and pain modulation.

16467 Clinical Reasoning A  
*Semester 1-26 hours*  
*Pre or Co-requisites:* Professional Skills in Manipulative Physiotherapy A (164A7), Anatomy and Biomechanics A (11455)  
*Co-requisite:* Clinical Manipulative Physiotherapy A (16510)  
Students further develop the cognitive skills of clinical reasoning and problem-solving applied to musculoskeletal disorders of the lower body, using the knowledge and experience gained in the co-requisite subjects. In this way, this subject provides a means for the integration of the other subjects studied.

16468 Clinical Reasoning B  
*Semester 2-24 hours*  
*Pre-requisite:* Clinical Reasoning A (16467)  
*Pre or Co-requisites:* Professional Skills in Manipulative Physiotherapy B (164A8), Anatomy and Biomechanics B (11456)  
*Co-requisite:* Clinical Manipulative Physiotherapy B (16511)  
Students further develop the cognitive skills of clinical reasoning and problem-solving applied to musculoskeletal disorders of the upper body, using the knowledge and experience gained in the co-requisite subjects. In this way, this subject provides a means for the integration of the other subjects studied.

16510 Clinical Manipulative Physiotherapy A  
*Semester 1-110 hours*  
*Pre or Co-requisites:* Professional Skills in Manipulative Physiotherapy A (164A7), Anatomy and Biomechanics A (11455)  
*Co-requisite:* Clinical Reasoning A (16467)  
Students advance their clinical competence by developing further skills and integrating their knowledge from the underpinning sciences, in managing musculoskeletal disorders of the lower body.

16511 Clinical Manipulative Physiotherapy B  
*Semester 2-110 hours*  
*Pre-requisite:* Clinical Manipulative Physiotherapy A (16510)  
*Pre or Co-requisites:* Professional Skills in Manipulative Physiotherapy B (164A8), Anatomy and Biomechanics B (11456)  
*Co-requisite:* Clinical Reasoning B (16468)  
Students consolidate their clinical experience. They also develop further skills and integrate their knowledge from the underpinning sciences, in managing musculoskeletal disorders of the upper body.

164A7 Professional Skills in Manipulative Physiotherapy A  
*Semester 1-80 hours*  
*Co-requisites:* Anatomy and Biomechanics A (11455), Neurophysiology & Pharmacology (11457)  
The two modules, human interaction processes and professional skills, advance students’ manipulative physiotherapy skills in examination of patients with musculoskeletal disorders of the lower body and planning and implementing appropriate treatment programmes for those disorders. Students also develop a greater understanding and skill in the process of communication between the patient and the physiotherapist.

164A8 Professional Skills in Manipulative Physiotherapy B  
*Semester 2-85 hours*  
*Pre-requisite:* Professional Skills in Manipulative Physiotherapy A (164A7)  
*Co-requisites:* Anatomy and Biomechanics B (11456), Psychology (10458)  
Students advance their skills in examination of patients with musculoskeletal disorders of the upper body, in planning and implementing appropriate treatment courses for these disorders, and in evaluating the effectiveness of these treatment programs.

16509 Medical Sciences  
*Semester 1-10 hours*  
*Semester 2-10 hours*  
This subject is presented in lecture/seminar format and the content areas may cover Neurology, Oncology, Orthopaedics, Radiology, Rheumatology and Vascular Disorders. The student gains further knowledge of disease processes and symptomatology, relevant diagnostic procedures and trends in management and research in the areas of medicine studied.
### Table 13.4  Master of Applied Science (Manipulative Physiotherapy)

<table>
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<tr>
<th>Course Code</th>
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**□ Full-time Mode for students enrolling from 1994**

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**□ For students enrolling from 1995**

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</table>

**Note**

2. Clinical Manipulative Physiotherapy will be conducted as three afternoon sessions for ten weeks in Semesters 1 & 2.
3. Treatise may be taken as part time over one year.
### Part-time Mode for students enrolling from 1995

<table>
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**Note:** Clinical Manipulative Physiotherapy will be conducted as three afternoon sessions for ten weeks in Semesters 1 & 2.
Manipulative Physiotherapy is a physically demanding course of study which requires for its practice the development of a range of precise physical skills. Prospective students should be aware that they will be expected to carry out and have carried out upon themselves as simulated patients, the examination and treatment procedures used by manipulative physiotherapists. Partial disrobing will be required in these classes. All students are required to provide the School of Physiotherapy with X-rays of their Cervical, Thoracic and Lumbar spines prior to the commencement of the spinal manipulation classes. Any prospective students who think they may have a condition or disability which may interfere with the development or practice of manipulative physiotherapy skills should consult the Graduate Diploma of Applied Science (Manipulative Physiotherapy) Course Co-ordinator, Grant McCormick (ext. 6385) before commencing the course.

Admission requirements
To be considered for entry to the Master of Applied Science (Manipulative Physiotherapy) applicants should:

a) Possess an award of Bachelor of Applied Science (Physiotherapy) from the Cumberland College of Health Sciences or from The University of Sydney or
b) Possess an award of Bachelor of Science with a major in anatomy from the University of New South Wales and a Graduate Diploma in Physiotherapy from Cumberland College of Health Sciences, or
c) Possess such qualifications as are deemed to be equivalent to (a) and/or (b).

In addition, all applicants should normally have completed at least two years recent clinical experience in the management of musculoskeletal disorders, and be presently engaged in related clinical practice.

Selection
Selection, will take into account employment history, qualifications, continuing education and other professional development.

Subject Enrolment
Enrolment in all physiotherapy (16***) subjects is dependent upon the applicant being eligible to enrol in this course.

Advanced Standing
Applicants holding an approved graduate diploma in manipulative physiotherapy may apply for Advanced Standing in the Masters programme. Decisions will be made on an individual basis.

Progression
Progression from the graduate diploma to the masters programme, whether the student originally enrolled in the graduate diploma or the masters programme, will be dependent upon satisfactory performance in the graduate diploma subjects.

Course Outline
The Course Outline for the Master of Applied Science (Manipulative Physiotherapy) is presented in Table 13.4.

Subject Descriptions
Refer to the Graduate Diploma of Applied Science (Manipulative Physiotherapy) for subject descriptions not listed below.

08503 History and Philosophy of Scientific Methodology
Semester 1-28 hours
This subject is designed to provide students with a critical perspective on science as a specific form of knowledge. It introduces students to the major philosophies of the scientific enterprise taking into account the social versus natural science controversy.

16512 Scientific Investigation II
Semester 1-28 hours
This subject develops students’ skills in writing scientifically. The content for this subject covers developing research questions and writing them up as a grant submission. The issues of developing research questions by setting the inquiry in the context of the state of the profession, the state of scientific knowledge of the area and an evaluation of existing paradigms will be examined. Students' learning will involve preparing an annotated bibliography and writing a proposal as if applying for funding from the Physiotherapy Research Foundation.

164B3 Distinguished Scientist Series
Semester 1-28 hours
This subject involves the study of a researcher's (or group of researchers') work in detail. The researcher(s) will be invited to the campus to participate in seminars to enable the students to discuss and explore issues with them directly. The content will be decided on the basis of the individual interests of the students.
**164B4  Treatise**

*Semester 1 and/or 2 - 168 hours*

The treatise involves the preparation of a non-research work in a specific area of interest under supervision. It is a substantial scholarly work that is an exposition of a range of knowledge and is expected to include original argument substantiated by reference to acknowledged authorities. It does not usually involve data collection but may take the form of developing a clinical tool. The aim of this work is for students to integrate background material and provide cohesive, structured suggestions for physiotherapy development or practice. It is carried out in partial fulfilment of the master degree by coursework. Some hours are set aside for classes in scientific writing but the majority of the hours will be spent in consultation with the supervisor or in independent study.
### Table 13.5  Graduate Diploma of Applied Science (Occupational Health)

<table>
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<th>Course Code</th>
<th>Mode of Offer</th>
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<td>Hours</td>
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<td>08522</td>
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<td>08529</td>
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<td>Management &amp; Problem Solving</td>
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<td>16481</td>
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<td>Introduction to Ergonomics</td>
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<td>10546</td>
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<td>Organisation &amp; Management in Rehabilitation or approved² elective</td>
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#### Notes

1. Enrolment in electives will be dependent upon whether the subject is offered and there are places available. Examples of electives are:
   - 16506 Restoration of Function in Clients with Chronic Musculoskeletal Disorders (28 hours)
   - 16507 Occupational Health Practice (28 hours)
   - 11468 Mechanics of Human Movement (42 hours)
   - 11461 Clinical Biomechanics (28 hours)
   - 11426 Biomechanics I (42 hours)
   - 11469 Occupational Biomechanics (14 hours)

2. ‘Approved’ means subject approved by Course Coordinator.

Subjects offered within other Faculty graduate courses such as the graduate diploma and masters programs in Health Science (Rehabilitation Counselling), Health Science (Community Health), Health Science (Education) and Behavioural Health Science may be available as electives to students. Students should seek advice from the Course Co-ordinator, Elfreda Marshall (Ext. 6273)
Graduate Diploma of Applied Science (Occupational Health)

Enquiries
Graduate Diploma Course Coordinator: Elfreda Marshall (ext. 6273)

Admission Requirements
To qualify for admission to the Graduate Diploma of Applied Science (Occupational Health) applicants shall:

a) Possess an award of Bachelor of Applied Science (Physiotherapy), Bachelor of Applied Science (Occupational Therapy), or Bachelor of Applied Science (Nursing) from the Cumberland College of Health Sciences or from the University of Sydney (1)
or
b) Possess an award of Bachelor of Science with a major in Anatomy from the University of New South Wales, or its equivalent, and a Graduate Diploma in Physiotherapy from Cumberland College of Health Sciences, or
c) Possess such qualifications as are deemed to be equivalent to (a) and/or (b).
or
d) Other evidence of general and/or professional qualifications as will satisfy the Postgraduate Studies Committee of the Faculty of Health Sciences that the applicant possesses the educational preparation and capacity to pursue graduate studies.

For instance, applicants would also be admitted with a diploma in Nursing, Occupational Therapy or Physiotherapy. Such applicants would need to provide evidence of additional relevant academic background or experience; these applicants should contact the Course Co-ordinator Elfreda Marshall (ext. 6273) for further information. Other applicants, particularly those with a medical or health science background, must be able to satisfy the Head of School that they possess some form of qualification and work experience which is of sufficient merit to warrant their admission to the course.

In addition, applicants shall normally have a minimum of two years full-time clinical experience since graduation.

Selection
Selection, will take into account employment history, qualifications, continuing education and other professional development. Students will be selected taking into account a balanced representation from different health professional groups.

Subject Enrolment
Enrolment in all physiotherapy (16***) subjects is dependent upon the applicant being eligible to enrol in this course.

Progression
Progression from the graduate diploma to the masters programme, whether the student originally enrolled in the graduate diploma or the masters programme, will be dependent upon satisfactory performance in the graduate diploma subjects.

Course Outline
The Course Outline for the Graduate Diploma of Applied Science (Occupational Health) is presented in Table 13.5.

Subject Descriptions

08522 Introduction to Epidemiology and Biostatistics
Semester 1-28 hours
This subject introduces students to the principles of epidemiology and biostatistics and their application to community health problems and programs. It provides an overview of the assessment of common occupational health problems and their relationships to social, behavioural, physical and environmental variables. Students will be familiarised with the uses, interpretation and limitation of population level data in community diagnosis and program planning.

08529 Management and Problem Solving
Semester 1-28 hours
This subject will develop appropriate skills in day-to-day administration and management within a multidisciplinary team setting.

10471 Organisation and Management in Rehabilitation
Semester 2-28 hours
This subject aims to provide participants with a conceptual and practical understanding of the structures, functions and processes of management and organisational settings relevant to the needs of occupational health and safety practitioners. It further aims at providing students with the opportunity to apply some of the concepts of organisational management to the rehabilitation of the injured worker.

09444 Information Management in Occupational Health
Semester 1-28 hours
This subject is designed to introduce the student to the professional responsibilities of documentation; to provide a framework for the students to organise and manage client care information; and to provide an understanding of record structures, and record keeping techniques, appropriate to occupational health.
15466  Health Promotion  
**Semester 1**-28 hours  
**Semester 2**-28 hours  
The aims of this subject are to introduce students to the concept of health promotion, provide an introduction to the conceptual bases which influence health promotion and develop skills in the development, implementation and evaluation of health promotion courses and strategies. Content includes theories which influence health promotion and differing approaches to health promotion varying from individual to population.

16508  Scientific Investigation I  
**Semester 2**-28 hours  
This subject develops students' skills in analysis of data. It examines common statistical tests with the aim of enabling students to understand research papers as well as enabling them to choose appropriate statistical methods of analysing data. It also examines issues relating to measurement including reliability and validity. Students will have the opportunity to apply statistical tests to small data sets of measurement procedures that they will collect, or that have been previously collected.

16512  Scientific Investigation II  
**Semester 1**-28 hours  
This subject develops students' skills in writing scientifically. The content for this subject covers developing research questions and writing them up as a grant submission. The issues of developing research questions by setting the inquiry in the context of the state of the profession, the state of scientific knowledge of the area and an evaluation of existing paradigms will be examined. Students' learning will involve preparing an annotated bibliography and writing a proposal as if applying for funding from the Physiotherapy Research Foundation.

16479  Occupational Health I  
**Semester 1**-28 hours  
This subject looks at the discipline of occupational health within a social system. After considering significant steps in the evolution of the discipline in the western world, it considers the social, political and economic issues which have historically shaped the development of occupational health legislation and practice.

16480  Occupational Health II  
**Semester 2**-28 hours  
This subject aims to give the student specific knowledge and skills to apply in occupational health practice and the ability to identify which occupational health professional has the expertise to deal with an identified risk. The subject will encompass both academic and practical components.

16506  Restoration of Function in Clients with Chronic Musculoskeletal Disorders  
28 hours  
In this subject students will be introduced to the concept of returning deconditioned clients to higher levels of function as a primary goal. This is contrast to the more traditional view of pain elimination being the primary objective. The students will develop skills in workplace analysis in terms of systems of work and individual work stations. Students will have the opportunity to discuss their findings and write relevant reports with specific recommendations. This subject is normally only available to students enrolled in the Graduate Diploma or Master of Applied Science (Occupational Health).

16481  Introduction to Ergonomics  
**Semester 1**-28 hours  
This subject aims to give the student an overview of ergonomics and explores the inter-relationship and relevance of a variety of areas with respect to ergonomics in the workplace. Content includes a review of work physiology, biomechanics and kinesiology, physical and psychological factors influencing the worker, anthropometry and system issues.

Electives

16507  Occupational Health Practice  
28 hours  
This subject has a two-fold purpose. Firstly, it will provide an opportunity for experiential learning in subject areas and tasks related to the practice of occupational health in the workplace, and secondly to develop skills in workplace analysis in terms of a system of work and individual workstations. Students will have the opportunity to discuss their findings and write relevant reports with specific recommendations. This subject is normally only available to students enrolled in the Graduate Diploma or Master of Applied Science (Occupational Health).

For additional elective subject descriptions, see Appendix I
Table 13.6  Master of Applied Science (Occupational Health)

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**Notes**

1 Enrolment in electives will be dependent upon whether the course is offered and there are places available. Examples of electives are:

- 16506 Restoration of Function in Clients with Chronic Musculoskeletal Disorders (28 hours)
- 16507 Occupational Health Practice (28 hours)
- 11468 Mechanics of Human Movement (42 hours)
- 11426 Biomechanics 1 (42 hours)
- 11461 Clinical Biomechanics (28 hours)
- 11469 Occupational Biomechanics (14 hours)

2 "approved" means a subject approved by the Course Co-ordinator.

Subjects offered within other Faculty graduate courses such as the graduate diploma and masters programs in Health Science (Rehabilitation Counselling), Health Science (Community Health), Health Science (Education) and Behavioural Health Science may be available as electives to students. Students should seek advice from the Course Co-ordinator, Elfreda Marshall (Ext. 6273)
Master of Applied Science  
(Occupational Health)

Enquiries
Graduate Diploma Course Coordinator: Elfreda Marshall (ext. 6273)
Masters Course Coordinator: Elizabeth Henley (ext. 6268)

Admission Requirements
To qualify for admission to the Master of Applied Science (Occupational Health) applicants shall:

a) Possess an award of Bachelor of Applied Science (Physiotherapy), Bachelor of Applied Science (Occupational Therapy), or Bachelor of Applied Science (Nursing) from the Cumberland College of Health Sciences or from the University of Sydney (1) or

b) Possess an award of Bachelor of Science with a major in Anatomy from the University of New South Wales, or its equivalent, and a Graduate Diploma in Physiotherapy from Cumberland College of Health Sciences, or

c) Possess such qualifications as are deemed to be equivalent to (a) and/or (b). or

d) Other evidence of general and/or professional qualifications as will satisfy the Postgraduate Studies Committee of the Faculty of Health Sciences that the applicant possesses the educational preparation and capacity to pursue graduate studies.

For instance, students entering this course would normally have a degree in Nursing, Occupational Therapy or Physiotherapy plus two years clinical experience. Other applicants, particularly those with a medical or health science background, must be able to satisfy the Head of School that they possess some form of qualification and work experience which is of sufficient merit to warrant their admission to the course.

In addition, applicants shall normally have a minimum of two years full-time clinical experience since graduation.

Selection
Selection, will take into account employment history, qualifications, continuing education and other professional development. Students will be selected taking into account a balanced representation from different health professional groups.

Subject Enrolment
Enrolment in all physiotherapy (16*** subjects is dependent upon the applicant being eligible to enrol in this course.

Advanced Standing
Applicants holding an approved graduate diploma in manipulative physiotherapy may apply for Advanced Standing in the Masters programme. Decisions will be made on an individual basis.

Progression
Progression from the graduate diploma to the masters programme, whether the student originally enrolled in the graduate diploma or the masters programme, will be dependent upon satisfactory performance in the graduate diploma subjects.

Course Outline
The Course Outline for the Master of Applied Science (Occupational Health) is presented in Table 13.6.

Subject Descriptions
Refer to the Graduate Diploma of Applied Science (Occupational Health) for subject descriptions not listed below.

08503 History and Philosophy of Scientific Methodology

Semester 1 - 28 hours
This subject is designed to provide students with a critical perspective on science as a specific form of knowledge. It introduces students to the major philosophies of the scientific enterprise taking into account the social versus natural science controversy.

164B3 Distinguished Scientist Series

Semester 1 - 28 hours
This subject involves the study of a researcher's (or group of researchers') work in detail. The researcher(s) will be invited to the campus to participate in seminars to enable the students to discuss and explore issues with them directly. The content will be decided on the basis of the individual interests of the students.

164B4 Treatise

Semester 1 and/or 2 - 168 hours
The treatise involves the preparation of a non-research work in a specific area of interest under supervision. It is a substantial scholarly work that is an exposition of a range of knowledge and is expected to include original argument substantiated by reference to acknowledged authorities. It does not usually involve data collection but may take the form of developing a clinical tool. The aim of this work is for students to integrate background material and provide cohesive, structured suggestions for physiotherapy development or practice. It is carried out in partial fulfilment of the master degree by coursework. Some hours are set aside for classes in scientific writing but the majority of the hours will be spent in consultation with the supervisor or in independent study.
Table 13.7  Graduate Diploma of Applied Science (Sports Physiotherapy)

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**Part-time Mode for students commencing in 1994**

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<td>16514</td>
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Graduate Diploma of Applied Science (Sports Physiotherapy)

Enquiries
Graduate Diploma Course Coordinator: Elizabeth Henley (ext. 6268)

Admission Requirements
To qualify for admission to the Graduate Diploma of Applied Science (Sports Physiotherapy) applicants shall:

a) Possess an award of Bachelor of Applied Science (Physiotherapy) from the Cumberland College of Health Sciences or from the University of Sydney or
b) Possess an award of Bachelor of Science with a major in Anatomy from the University of New South Wales, or its equivalent, and a Graduate Diploma in Physiotherapy from Cumberland College of Health Sciences,

or
c) Possess such qualifications as are deemed to be equivalent to (a) and/or (b).

or
d) Other evidence of general and/or professional qualifications as will satisfy the Postgraduate Studies Committee of the Faculty of Health Sciences that the applicant possesses the educational preparation and capacity to pursue graduate studies.

For instance, diploma holders applying for admission will need to provide evidence of additional relevant academic background or experience; these applicants should contact the Course Coordinator Elizabeth Henley (ext. 6268) for further information.

Applicants should also have at least two years recent graduate clinical experience relevant to sports physiotherapy and should be currently employed in a sports physiotherapy context.

Selection
Selection, will take into account employment history, qualifications, continuing education and other professional development.

Subject Enrolment
Enrolment in all physiotherapy (16***) subjects is dependent upon the applicant being eligible to enrol in this course.

Progression
Progression from the graduate diploma to the masters programme, whether the student originally enrolled in the graduate diploma or the masters programme, will be dependent upon satisfactory performance in the graduate diploma subjects.

Course Outline
The Course Outline for the Graduate Diploma of Applied Science (Sports Physiotherapy) is presented in Table 13.7.

Subject Descriptions

10458 Psychology

Semester 2-14 hours
The aim of this subject is to further develop the students' understanding of psychological aspects of pain and loss of function, and psychological approaches to the management of stress, illness and pain.

10472 Motor Performance and Learning

Semester 1-28 hours
This subject considers principles underlying skilled motor performance:- sensory contributions to performance, processing information and making decisions, motor production and motor programs. It then looks at principles underlying skilled learning:- preparation, practice strategies and feedback. Activities studied include walking, reaching and grasping, speaking, singing and smiling, eye hand coordination and throwing approaching balls. Ecological and motor program approaches to motor learning are considered.

11429 Applied Physiology I

Semester 1-56 hours
Pre-requisite: Applied Physiology I (11429)
This subject will provide the student with a developing infrastructure for Applied Physiology. Initially, this subject will involve a systems approach with emphasis on applied physiological situations. Only when the basic physiological systems have been reviewed and expanded, will the more integrative aspects of the exercise response be attempted. While the subject content is broad, it nevertheless assumes a sound physiology background. Particular attention will be given to the cardiovascular, respiratory, and metabolic systems.

11436 Applied Physiology II

Semester 2-42 hours
Pre-requisite: Applied Physiology I (11429)
This subject will build upon the principles and information provided in Applied Physiology I, and will focus upon the regulation of the exercise response. While the changes that occur during exercise are important, this subject will aim primarily at providing the student with the necessary understanding of the mechanisms behind these changes. Particular attention will be given to cardiovascular control, adaptation to dynamic and static exercise, metabolic regulation, respiratory control and thermoregulation. It is expected that while the content of this subject will remain fixed, the level and emphasis of each section will vary according to current staff background and research interest.
11461 Clinical Biomechanics  
**Semester 2-28 hours**  
Pre-requisite: Mechanics of Human Movement (11468)  
The purpose of this subject is to improve the student's capacity to predict the mechanical effects of training regimes, trauma, movement styles and their repetition on tissues and regions of the body, and to differentiate this response in different age groups. This will be achieved by the study of sources and characteristics of forces and the ways in which they are transmitted through the body via tissues and regions of the body. High- and low- technology biomechanical measurement methods which assist in the development of clinical biomechanical measurement protocols will be examined.

11468 Mechanics of Human Movement  
**Semester 1-42 hours**  
This subject will provide biomechanical concepts and skills required for the analysis of human movement. Principles of kinematics, kinetics and electromyography in dynamic muscle movements, and mechanical energy distribution will be studied with reference to selected motor activities. Laboratory sessions will be used to provide illustrations of the above principles and to give students experience with biomechanical laboratory techniques. This subject is only open to graduates who have studied biomechanics previously.

11470 Functional Anatomy  
**Semester 2-42 hours**  
This subject aims to investigate the relationship between anatomical structure and function, particularly as it relates to the body during exercise. It will include advanced musculoskeletal anatomy of the limbs and trunk undertaken from a theoretical and practical approach in the anatomy laboratory.

16512 Scientific Investigation II  
**Semester 1-28 hours**  
This subject develops students' skills in writing scientifically. The content for this subject covers developing research questions and writing them up as a grant submission. The issues of developing research questions by setting the inquiry in the context of the state of the profession, the state of scientific knowledge of the area and an evaluation of existing paradigms will be examined. Students' learning will involve preparing an annotated bibliography and writing a proposal as if applying for funding from the Physiotherapy Research Foundation.

16513 Clinical Management of Sporting Injuries  
**Semester 1-42 hours**  
**Semester 2-42 hours**  
This subject will focus on assessment, diagnosis and management of injury as well as prevention of injury and screening of athletes. This will include a critical evaluation of current procedures and practices used in the management of the sports person, and the role of the sports professional in the prevention of injuries. The subject aims to integrate relevant knowledge from related sciences into sports physiotherapy practice, such as response of body tissue to injury, immobilization and rehabilitation, the influence of these factors upon tissue repair and the restoration of function.

16514 Clinical Sports Physiotherapy  
**Semester 1 and Inter-Semester break - 60 hours**  
**Semester 2-60 hours**  
The Clinical Sports Physiotherapy subject will provide the opportunity for students to integrate their knowledge gained in other subjects in this course, and their previous clinical knowledge and skill, with new approaches to the management of the person with a sports injury. Clinical learning opportunities will be provided in a variety of spheres of sports physiotherapy practice including different age groups and different types of sport, and ranging from acute field management to procedures designed to prevent injury or effectively deal with chronic or recurrent injuries.  
(Note: Overseas physiotherapists can apply for registration or approval to practise during the course.)

16509 Medical Sciences  
**Semester 1-10 hours**  
**Semester 2-10 hours**  
This subject is presented in lecture/seminar format and the content areas may cover Neurology, Oncology, Orthopaedics, Radiology, Rheumatology and Vascular Disorders. The Student gains further knowledge of disease processes and symptomatology, relevant diagnostic procedures and trends in management and research in the areas of medicine studied.
Table 13.8  Master of Applied Science (Sports Physiotherapy)

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Year 3 1996

| 08559| History and Philosophy of Scientific Methodology | 28 | 28 |   |   |   |
| 164B3| Distinguished Scientist Series            | 28 | 28|   |   |   |
| 164B4| Treatise                                   | 168| 56 | 112|   |   |

☐ Part-time Mode for students commencing in 1995

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Year 2 1996

| 10458| Psychology                        | 14 |   |   |   | 14|
| 16512| Scientific Investigation II       | 28 | 28|   |   |   |
| 10472| Motor Performance and Learning    | 28 | 28|   |   |   |
| 11436| Applied Physiology II             | 42 |   |   | 42|   |
| 16513| Clinical Management of Sporting Injuries | 84 | 42 | 42|   |   |
| 16514| Clinical Sports Physiotherapy     | 120| 60 | 60|   |   |

Year 3 1997

| 08559| History and Philosophy of Scientific Methodology | 28 | 28|   |   |   |
| 164B3| Distinguished Scientist Series            | 28 | 28|   |   |   |
| 164B4| Treatise                                   | 168| 56 | 112|   |   |
Master of Applied Science
(Sports Physiotherapy)

Enquiries
Graduate Diploma Course Coordinator: Elizabeth Henley (ext. 6268)
Masters Course Coordinator: Elizabeth Henley (ext. 6268)

Admission Requirements
To qualify for admission to the Master of Applied Science (Sports Physiotherapy) applicants shall:

a) Possess an award of Bachelor of Applied Science (Physiotherapy) from the Cumberland College of Health Sciences or from the University of Sydney or
b) Possess an award of Bachelor of Science with a major in Anatomy from the University of New South Wales, or its equivalent, and a Graduate Diploma in Physiotherapy from Cumberland College of Health Sciences, or
c) Possess such qualifications as are deemed to be equivalent to (a) and/or (b).

Applicants should also have at least two years recent graduate clinical experience relevant to sports physiotherapy and should be currently employed in a sports physiotherapy context.

Selection
Selection, will take into account employment history, qualifications, continuing education and other professional development.

Subject Enrolment
Enrolment in all physiotherapy (16*** subjects is dependent upon the applicant being eligible to enrol in this course.

Advanced Standing
Applicants holding an approved graduate diploma in manipulative physiotherapy may apply for Advanced Standing in the Masters programme. Decisions will be made on an individual basis.

Progression
Progression from the graduate diploma to the masters programme, whether the student originally enrolled in the graduate diploma or the masters programme, will be dependent upon satisfactory performance in the graduate diploma subjects.

Course Outline
The Course Outline for the Master of Applied Science (Sports Physiotherapy) is presented in Table 13.8.

Subject Descriptions
Refer to the Graduate Diploma of Applied Science (Sports Physiotherapy) for subject descriptions not listed below.

08503 History and Philosophy of Scientific Methodology
Semester 1-28 hours
This subject is designed to provide students with a critical perspective on science as a specific form of knowledge. It introduces students to the major philosophies of the scientific enterprise taking into account the social versus natural science controversy.

164B3 Distinguished Scientist Series
Semester 1-28 hours
This subject involves the study of a researcher's (or group of researchers') work in detail. The researcher(s) will be invited to the campus to participate in seminars to enable the students to discuss and explore issues with them directly. The content will be decided on the basis of the individual interests of the students.

164B4 Treatise
Semester 1 and/or 2-168 hours
The treatise involves the preparation of a non-research work in a specific area of interest under supervision. It is a substantial scholarly work that is an exposition of a range of knowledge and is expected to include original argument substantiated by reference to acknowledged authorities. It does not usually involve data collection but may take the form of developing a clinical tool. The aim of this work is for students to integrate background material and provide cohesive, structured suggestions for physiotherapy development or practice. It is carried out in partial fulfilment of the master degree by coursework. Some hours are set aside for classes in scientific writing but the majority of the hours will be spent in consultation with the supervisor or in independent study.
Table 13.9  Graduate Diploma of Applied Science
(Paediatric Physiotherapy)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Mode of Offer</th>
<th>1609P Part-time, 2 years</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

For students commencing in 1995

<table>
<thead>
<tr>
<th>Year 1 1995</th>
<th>Total hours</th>
<th>Sem 1</th>
<th>Sem 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>10478 Motor Performance and Learning</td>
<td>28</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>10547 Psychology of Child Development (or approved elective¹)</td>
<td>28</td>
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<td></td>
</tr>
<tr>
<td>11468 Mechanics of Human Movement</td>
<td>42</td>
<td>42</td>
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</tr>
<tr>
<td>16508 Scientific Investigation I</td>
<td>28</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>164D3 Paediatric Physiotherapy A (or approved elective¹)</td>
<td>28</td>
<td>28</td>
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</tr>
<tr>
<td>16515 Clinical Paediatric Physiotherapy A</td>
<td>72</td>
<td>30+42</td>
<td></td>
</tr>
</tbody>
</table>

Year 2 1996

| 10548 Psychology of Adolescent Development (or approved elective¹) | 28 | 28 | |
| 16512 Scientific Investigation II | 28 | 28 | |
| 11480 Advanced Respiratory Physiology | 28 | 28 | |
| Approved elective¹ | 28 | 28 | |
| 164D5 Paediatric Physiotherapy B | 42 | 42 | |
| 16516 Clinical Paediatric Physiotherapy B | 72 | 30+42 | |

Notes

Subjects in this course will be offered depending on sufficient enrolments. Physiotherapy subjects may be offered on alternate years.

¹ Enrolments in electives will be dependent upon whether the course is offered and if there are places available. Electives may be chosen from those subjects within the Faculty of Health Sciences subject to the approval of the Course Co-ordinator (Dr Glenys Rikard-Bell, ext. 6545 or Jane Butler ext. 6315) and the Heads of Schools or Departments in which the subject is offered. Examples of electives are:

- 10549 Therapy with Children, Adolescents and Family
- 11461 Clinical Biomechanics
- 11429 Applied Physiology I
- 164E4 Topics in Neurological Physiotherapy
- 164E7 Foundations for Physiotherapy Practice
Graduate Diploma of Applied Science  
(Paediatric Physiotherapy)

Enquiries  
Graduate Diploma Course Coordinator:  
Glenys Rikard-Bell (ext. 6545)  
or Jane Butler (ext. 6315)

Admission Requirements  
To qualify for admission to the Graduate Diploma of  
Applied Science (Paediatric Physiotherapy) applicants  
shall:

a) Possess an award of Bachelor of Applied Science  
(Physiotherapy) from the Cumberland College of  
Health Sciences or from The University of Sydney  
or

b) Possess an award of Bachelor of Science with a  
major in anatomy from the University of New  
South Wales and a Graduate Diploma in  
Physiotherapy from Cumberland College of  
Health Sciences,

or

c) Possess such qualifications as are deemed to be  
equivalent to (a) and/or (b),

or

d) Other evidence of general and/or professional  
qualifications as will satisfy the Postgraduate  
Studies Committee of the Faculty of Health  
Sciences that the applicant possesses the  
educational preparation and capacity to pursue  
graduate studies.

For instance, diploma holders applying for admission  
will need to provide evidence of additional relevant  
academic background or experience; these applicants  
should contact the Course Coordinator Glenys Rikard-  
Bell (ext. 6545) for further information.

Selection  
Selection, will take into account employment history,  
qualifications, continuing education and other  
professional development.

Subject Enrolment  
Enrolment in all physiotherapy (16*** subjects is  
dependent upon the applicant being eligible to enrol  
in this course.

Progression  
Progression from the graduate diploma to the masters  
programme, whether the student originally enrolled  
in the graduate diploma or the masters programme,  
will be dependent upon satisfactory performance in  
the graduate diploma subjects.

Course Outline  
The Course Outline for the Graduate Diploma of  
Applied Science (Paediatric Physiotherapy) is  
presented in Table 13.9

Subject Descriptions

16508 Scientific Investigation I  
Semester 2-28 hours  
This subject develops students' skills in analysis of  
data. It examines common statistical tests with the  
aim of enabling students to understand research papers  
as well as enabling them to choose appropriate  
statistical methods of analysing data. It also examines  
issues relating to measurement including reliability  
and validity. Students will have the opportunity to  
apply statistical tests to small data sets of measurement  
procedures that they will collect, or that have been  
previously collected.

16512 Scientific Investigation II  
Semester 1-28 hours  
This subject develops students' skills in writing  
scientifically. The content for this subject covers  
developing research questions and writing them up  
as a grant submission. The issues of developing  
research questions by setting the inquiry in the context  
of the state of the profession, the state of scientific  
knowledge of the area and an evaluation of existing  
paradigms will be examined. Students' learning will  
involve preparing an annotated bibliography and  
writing a proposal as if applying for funding from the  
Physiotherapy Research Foundation.

164D3 Paediatric Physiotherapy A  
Semester 2-28 hours  
This subject is designed to provide the student with an  
understanding of physiotherapy in the care of infants  
utilising recent relevant research findings. Students  
will study the analysis of infant dysfunction and the  
effect of the environment. Subject content includes  
management of respiratory, musculoskeletal and  
nervous system disorders in neonates, infants. In  
addition, the subject includes management of applied  
bio mechanics and human ecology as they relate to  
clinical practice in paediatrics.

164D5 Paediatric Physiotherapy B  
Semester 2-42 hours  
This subject is designed to provide the student with an  
understanding of physiotherapy in the care of children  
and adolescence utilising recent relevant research  
findings. Subject content includes management of  
respiratory, musculoskeletal and nervous system  
disorders in children and adolescents plus care of  
children with special needs. Health promotion and  
well-being of children is also considered within the  
broader concepts of the community and health care  
systems. The study of applied biomechanics and  
human ecology will continue in this subject.
16515  Clinical Paediatric Physiotherapy A
Inter-Semester and Semester 2-72 hours
This subject will provide the student with the opportunity to apply the principles and ideas in Paediatric Physiotherapy A within a clinical environment. Students will be expected to apply problem solving skills in a clinical situation. 30 hours will be off-campus during the inter-semester break. Most of the remaining 42 hours will be off-campus with students returning to campus to discuss clinical issues.

16516  Clinical Paediatric Physiotherapy B
Inter-Semester and Semester 2-72 hours
This subject will provide the student with the opportunity to apply the principles and ideas in Paediatric Physiotherapy B within a clinical environment. Students will be expected to apply problem solving skills in a clinical situation. 30 hours will be off-campus during the inter-semester break. Most of the remaining 42 hours will be off-campus with students returning to campus to discuss clinical issues.

10478  Motor Performance and Learning
Semester 1-28 hours
This course considers principles underlying skilled motor performance:- sensory contributions to performance, processing information and making decisions, motor production and motor programmes. It then looks at principles underlying skilled learning:- preparation, practice strategies and feedback. Activities studied include walking, reaching and grasping, speaking, singing and smiling, eye hand co-ordination and approaching balls. Ecological and motor programme approaches to motor learning are considered.

10547  Psychology of Child Development
Semester 1-28 hours
Biological factors, sociocultural expectations, life experiences, personal choices and chance events all contribute to the process of human development. This subject addresses theoretical and applied perspectives related to the study of child development and adjustment. The period of pregnancy (genetic and biological influences) and prenatal development are discussed together with psychosocial factors associated with pregnancy and the birth process. The period of infancy and childhood is examined and topics such as sensory, motor, cognitive and moral development are explored with reference to the effects of variation in attachment, class and culture. The development and function of play and its importance are highlighted together with social and emotional development including: sex role development, friendship patterns and self-esteem and one's self-concept.

10548  Psychology of Adolescent Development
Semester 1-28 hours
This subject provides an overview and critical evaluation of theoretical approaches which attempt to explain adolescent development and adjustment. Aspects of physical growth and psychological changes will be examined together with factors affecting development and the impact of those changes. Discussion of cognitive and psychosocial development during adolescence will highlight interaction between the adolescent, self and society. Topics will include identity formation, relations with peers and family, sexuality and intimacy, body image and personality; the 'youth culture' role of the media. Adolescent health concerns will also be discussed including alcohol and drug use and abuse, STD's, adolescent suicide.

11468  Mechanics of Human Movement
Semester 1-42 hours
This subject will provide biomechanical concepts and skills required for the analysis of human movement. Principles of kinematics, kinetics and electromyography in dynamic muscle movements, and mechanical energy distribution will be studies with reference to selected motor activities. Laboratory sessions will be used to provide illustrations of the above principles and to give student experience with biomechanical laboratory techniques. This subject is only open to graduates who have studied biomechanics previously.

11480  Advanced Respiratory Physiology
Semester 1-28 hours
This subject will provide the students with in-depth knowledge in respiratory physiology in adults and children and alterations caused by disease. An aspect of this course will be practical experience in physiological measurements of the respiratory system. This subject will be offered in every alternate year commencing 1996.
Table 13.10  Master of Applied Science (Paediatric Physiotherapy)

<table>
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</table>

No commencing students in 1994

For students commencing in 1995

<table>
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<tr>
<th>Year 1 1995</th>
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Year 2 1996

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<th>Total hours</th>
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<th>Sem 2</th>
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</tr>
<tr>
<td>28</td>
<td>28</td>
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</tbody>
</table>

Year 3 1997

| Total hours | | |
|-------------| | |
| 28 | | |
| 28 | | |
| 28 | | |
| 28 | | |
| 168 | 56 | 112 |

Noets:

Subjects in this course will be offered depending on sufficient enrolments. Physiotherapy subjects may be offered on alternate years.

Enrolments in electives will be dependent upon whether the course is offered and if there are places available. Electives may be chosen from those subjects within the Faculty of Health Sciences subject to the approval of the Course Co-ordinator (Dr Glenys Rikard-Bell, ext. 6545 or Jane Butler ext. 6315) and the Heads of Schools or Departments in which the subject is offered. Examples of electives are:

10549 Therapy with Children, Adolescents and Family
11461 Clinical Biomechanics
11429 Applied Physiology I
164E4 Topics in Neurological Physiotherapy
164E7 Foundations for Physiotherapy Practice
Master of Applied Science (Paediatric Physiotherapy)

Enquiries
Graduate Diploma Course Coordinator:
Glenys Rikard-Bell (ext. 6545) or
Jane Butler (ext.6315)
Masters Course Coordinator:
Elizabeth Henley (ext. 6268)

Admission Requirements
To be considered for entry to the Master of Applied Science (Paediatric Physiotherapy) applicants should:

a) Possess an award of Bachelor of Applied Science (Physiotherapy) from the Cumberland College of Health Sciences or from The University of Sydney or
b) Possess an award of Bachelor of Science with a major in anatomy from the University of New South Wales and a Graduate Diploma in Physiotherapy from Cumberland College of Health Sciences, or

c) Possess such qualifications as are deemed to be equivalent to (a) and/or (b).

In addition, all applicants should normally have completed at least two years recent clinical experience.

Selection
Selection, will take into account employment history, qualifications, continuing education and other professional development.

Subject Enrolment
Enrolment in all physiotherapy (16***) subjects is dependent upon the applicant being eligible to enrol in this course.

Advanced Standing
Applicants holding an approved graduate diploma may apply for Advanced Standing in the Masters programme. Decisions will be made on an individual basis.

Progression
Progression from the graduate diploma to the masters programme, whether the student originally enrolled in the graduate diploma or the masters programme, will be dependent upon satisfactory performance in the graduate diploma subjects.

Course Outline
The Course Outline for the Master of Applied Science (Paediatric Physiotherapy) is presented in Table 13.10.

Subject Descriptions
Refer to the Graduate Diploma of Applied Science (Paediatric Physiotherapy) for subject descriptions not listed below.

08559  History and Philosophy of Scientific Methodology
Semester 1-28 hours
This subject is designed to provide students with a critical perspective on science as a specific form of knowledge. It introduces students to the major philosophies of the scientific enterprise taking into account the social versus natural science controversy.

164B3  Distinguished Scientist Series
Semester 1-28 hours
This subject involves the study of a researcher's (or group of researchers') work in detail. The researcher(s) will be invited to the campus to participate in seminars to enable the students to discuss and explore issues with them directly. The content will be decided on the basis of the individual interests of the students.

164B4  Treatise
Semester 1 and/or 2 -168 hours
The treatise involves the preparation of a non-research work in a specific area of interest under supervision. It is a substantial scholarly work that is an exposition of a range of knowledge and is expected to include original argument substantiated by reference to acknowledged authorities. It does not usually involve data collection but may take the form of developing a clinical tool. The aim of this work is for students to integrate background material and provide cohesive, structured suggestions for physiotherapy development or practice. It is carried out in partial fulfilment of the master degree by coursework. Some hours are set aside for classes in scientific writing but the majority of the hours will be spent in consultation with the supervisor or in independent study.
Table 13.11 Graduate Diploma of Applied Science (Cardiopulmonary Physiotherapy)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Mode of Offer</th>
<th>1637</th>
<th>Part-time, 2 years</th>
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- **Part-time Mode for students commencing in 1994**

<table>
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<tr>
<th>Year 2</th>
<th>1995</th>
<th>Total Hours</th>
<th>Sem 1</th>
<th>Sem 2</th>
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<tr>
<td>11482</td>
<td>Advanced Cardiovascular Physiology</td>
<td>28</td>
<td>20</td>
<td>8</td>
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<tr>
<td>16512</td>
<td>Scientific Investigation II</td>
<td>28</td>
<td>28</td>
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<tr>
<td>16517</td>
<td>Clinical Cardiopulmonary Physiotherapy B</td>
<td>92</td>
<td>66</td>
<td>26</td>
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<tr>
<td>11481</td>
<td>Cardiopulmonary Anatomy</td>
<td>28</td>
<td>28</td>
<td></td>
</tr>
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<td></td>
<td>Elective B (1 or 2 approved subjects)</td>
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<td>164D1</td>
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- **Part-time Mode for students commencing 1995**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>1995</th>
<th>Total Hours</th>
<th>Sem 1</th>
<th>Sem 2</th>
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<tr>
<td>11429</td>
<td>Applied Physiology I ¹</td>
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<tr>
<td>11482</td>
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<td>20</td>
<td>8</td>
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<tr>
<td>16517</td>
<td>Clinical Cardiopulmonary Physiotherapy B</td>
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<td>66</td>
<td>26</td>
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<tr>
<td>16508</td>
<td>Scientific Investigation I</td>
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<thead>
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<th>Year 2</th>
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<td>16512</td>
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<td>16518</td>
<td>Clinical Cardiopulmonary Physiotherapy A</td>
<td>62</td>
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<td>11480</td>
<td>Advanced Respiratory Physiology</td>
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<td>Elective A</td>
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<td>Elective B (1 or 2 approved subjects)</td>
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<td>56</td>
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</table>

**Notes**

¹ All students will enrol in Applied Physiology 1 in the first year of their course. To accommodate for this the remaining subjects will vary from year to year.

Electives in each semester may be chosen from those subjects offered by the Faculty of Health Sciences, subject to approval by the Course Co-ordinator (Dr Elizabeth Ellis, ext 6470) and the Heads of Schools or Departments in which the subject is offered. Subjects from other Faculties within the University may also be considered suitable as electives, subject to the same conditions.
Graduate Diploma of Applied Science (Cardiopulmonary Physiotherapy)

Enquiries
Graduate Diploma Course Coordinator:
Dr Elizabeth Ellis (ext. 6470)

Admission Requirements
To qualify for admission to the Graduate Diploma of Applied Science (Cardiopulmonary Physiotherapy) applicants shall:

a) Possess an award of Bachelor of Applied Science (Physiotherapy) from the Cumberland College of Health Sciences or from the University of Sydney or

b) Possess an award of Bachelor of Science with a major in Anatomy from the University of New South Wales, or its equivalent, and a Graduate Diploma in Physiotherapy from Cumberland College of Health Sciences, or

c) Possess such qualifications as are deemed to be equivalent to (a) and/or (b). or

d) Other evidence of general and/or professional qualifications as will satisfy the Postgraduate Studies Committee of the Faculty of Health Sciences that the applicant possesses the educational preparation and capacity to pursue graduate studies.

For instance, diploma holders applying for admission will need to provide evidence of additional relevant academic background or experience; these applicants should contact the Course Coordinator Dr Elizabeth Ellis (ext. 6470) for further information.

Applicants should also have at least two years recent graduate clinical experience in an area related to cardiopulmonary physiotherapy.

Selection
Selection, will take into account employment history, qualifications, continuing education and other professional development.

Subject Enrolment
Enrolment in all physiotherapy (16***) subjects is dependent upon the applicant being eligible to enrol in this course.

Advanced Standing
Applicants holding an approved graduate diploma in manipulative physiotherapy may apply for Advanced Standing in the Masters programme. Decisions will be made on an individual basis.

Progression
Progression from the graduate diploma to the masters programme, whether the student originally enrolled in the graduate diploma or the masters programme, will be dependent upon satisfactory performance in the graduate diploma subjects.

Course Outline
The Course Outline for the Graduate Diploma of Applied Science (Cardiopulmonary Physiotherapy) is presented in Table 14.11.

Subject Descriptions

11480 Advanced Respiratory Physiology
Semester 1-28 hours
This subject will provide the students with in-depth knowledge in respiratory physiology in adults and children and alterations caused by disease. An aspect of this course will be practical experience in physiological measurements of the respiratory system. This subject will be offered in every alternate year commencing in 1996.

11482 Advanced Cardiovascular Physiology
Semester 1-20 hours
Semester 2-8 hours
This subject will provide the student with knowledge of alterations in cardiovascular physiology caused by disease. An aspect of this course will be practical experience in physiological measurements of the cardiovascular system. The subject will also include the interpretation of physiological measurements and the implications of these for exercise prescription. This subject will be offered every alternate year.

11429 Applied Physiology I
Semester 1-56 hours
This subject will provide the student with a developing infrastructure for Applied Physiology II. Initially, this subject will involve a systems approach with emphasis on applied physiological situations. Only when the basic physiological systems have been reviewed and expanded, will the more integrative aspects of the exercise response be attempted. While the subject content is broad, it nevertheless assumes a sound physiology background. Particular attention will be given to the cardiovascular, respiratory, and metabolic systems.
11481 Cardiopulmonary Anatomy  
Semester 2-28 hours  
This subject aims to investigate the relationship between the anatomical structure and functions of both the respiratory and cardiovascular systems. The subject contains coursework covering the musculoskeletal anatomy of the head, neck, trunk, shoulder girdle and the histology and gross anatomy of the respiratory and cardiovascular systems. The subject emphasises the relationship between structure, function and dysfunction and is taught from a theoretical and practical approach in the anatomy laboratory, and by self-directed learning.

16508 Scientific Investigation I  
Semester 2-28 hours  
This subject develops students' skills in analysis of data. It examines common statistical tests with the aim of enabling students to understand research papers as well as enabling them to choose appropriate statistical methods of analysing data. It also examines issues relating to measurement including reliability and validity. Students will have the opportunity to apply statistical tests to small data sets of measurement procedures that they will collect, or that have been previously collected.

16512 Scientific Investigation II  
Semester 1 - 28 hours  
This subject develops students' skills in writing scientifically. The content for this subject covers developing research questions and writing them up as a grant submission. The issues of developing research questions by setting the inquiry in the context of the state of the profession, the state of scientific knowledge of the area and an evaluation of existing paradigms will be examined. Students' learning will involve preparing an annotated bibliography and writing a proposal as if applying for funding from the Physiotherapy Research Foundation.

164D7 Cardiopulmonary Physiotherapy A  
Semester 2-28 hours  
This subject will require the student to thoroughly investigate various cardiopulmonary interventions and their application to clinical practice. Each student will present a seminar based on the theoretical investigation of a specific cardiopulmonary intervention. This subject will be offered in every alternate year commencing in 1994.

164E3 Cardiopulmonary Physiotherapy B  
Semester 1-28 hours  
In this subject the knowledge gained in Applied Physiology I, Advanced Respiratory Physiology, and/or Advanced Cardiac Physiology will be applied to specific case studies with the aim of forming a diagnosis for each case and identifying clinical problems and designing appropriate clinical intervention. This subject will be offered in every alternate year commencing in 1995.
### Table 13.12 Master of Applied Science (Cardiopulmonary Physiotherapy)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Mode of Offer</th>
<th>Mode for reenrolling Students 1995</th>
<th>Year 2 1995</th>
<th>Year 3 1996 (as per Year 3 below)</th>
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<tbody>
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<td>20</td>
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<td>16512</td>
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### Notes

1. All students will enrol in Applied Physiology 1 in the first year of their course. To accommodate for this the remaining subjects will vary from year to year.

Electives in each semester may be chosen from those subjects offered by the Faculty of Health Sciences, subject to approval by the Course Co-ordinator (Dr Elizabeth Ellis, ext.6470) and the Heads of Schools or Departments in which the subject is offered. Subjects from other Faculties within the University may also be considered suitable as electives, subject to the same conditions.
Master of Applied Science
(Cardio-pulmonary Physiotherapy)

Enquiries
Graduate Diploma Course Coordinator:
Dr Elizabeth Ellis (ext. 6470)
Masters Course Coordinator:
Elizabeth Henley (ext. 6268)

Admission Requirements
To qualify for admission to the Master Graduate of
Applied Science (Cardio-pulmonary Physiotherapy)
applicants shall:

a) Possess an award of Bachelor of Applied Science
(Physiotherapy) from the Cumberland College of
Health Sciences or from the University of Sydney
or

b) Possess an award of Bachelor of Science with a
major in Anatomy from the University of New
South Wales, or its equivalent, and a Graduate
Diploma in Physiotherapy from Cumberland
College of Health Sciences,
or

c) Possess such qualifications as are deemed to be
equivalent to (a) and/or (b).

Applicants should also have at least two years recent
graduate clinical experience in an area related to
cardio-pulmonary physiotherapy.

Selection
Selection, will take into account employment history,
qualifications, continuing education and other
professional development.

Subject Enrolment
Enrolment in all physiotherapy (16*) subjects is
dependent upon the applicant being eligible to enrol
in this course.

Advanced Standing
Applicants holding an approved graduate diploma in
manipulative physiotherapy may apply for Advanced
Standing in the Masters programme. Decisions will be
made on an individual basis.

Progression
Progression from the graduate diploma to the masters
programme, whether the student originally enrolled
in the graduate diploma or the masters programme,
will be dependent upon satisfactory performance in
the graduate diploma subjects.

Course Outline
The Course Outline for the Master of Applied Science
(Cardio-pulmonary Physiotherapy) is presented in
Table 13.12.

Subject Descriptions
Refer to the Graduate Diploma of Applied Science
(Cardio-pulmonary Physiotherapy) for subject
descriptions not listed below.

08503 History and Philosophy of Scientific
Methodology
Semester 1-28 hours
This subject is designed to provide students with a
critical perspective on science as a specific form of
knowledge. It introduces students to the major
philosophies of the scientific enterprise taking into
account the social versus natural science controversy.

164B3 Distinguished Scientist Series
Semester 1-28 hours
This subject involves the study of a researcher's (or
group of researchers') work in detail. The researcher(s)
will be invited to the campus to participate in seminars
to enable the students to discuss and explore issues
with them directly. The content will be decided on the
basis of the individual interests of the students.

164B4 Treatise
Semester 1 and/or 2 -168 hours
The treatise involves the preparation of a non-research
work in a specific area of interest under supervision.
It is a substantial scholarly work that is an exposition
of a range of knowledge and is expected to include
original argument substantiated by reference to
acknowledged authorities. It does not usually involve
data collection but may take the form of developing a
clinical tool. The aim of this work is for students to
integrate background material and provide cohesive,
structured suggestions for physiotherapy
development or practice. It is carried out in partial
fulfilment of the master degree by coursework. Some
hours are set aside for classes in scientific writing but
the majority of the hours will be spent in consultation
with the supervisor or in independent study.
### Course Code

1638  
**Part-time, 2 years**

#### Part-time Mode for students continuing from 1994

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#### Part-time Mode for new enrolments for 1995

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**Note**

Electives in each semester may be chosen from those subjects offered by the Faculty of Health Sciences, subject to approval by the Course Co-ordinator (Associate Professor Janet Carr, ext. 6271 or Colleen Canning ext. 6263 and the Heads of Schools or Departments in which the subject is offered. Subjects from other Faculties within the University may also be considered suitable as electives, subject to the same conditions.
Graduate Diploma of Applied Science (Neurological Physiotherapy)

Enquiries
Graduate Diploma Course Coordinator:
Associate Professor Janet Carr (ext. 6271) or
Colleen Canning (ext. 6263)

Admission Requirements
To qualify for admission to the Graduate Diploma of Applied Science (Neurological Physiotherapy) applicants shall:

a) Possess an award of Bachelor of Applied Science (Physiotherapy) from the Cumberland College of Health Sciences or from the University of Sydney or

b) Possess an award of Bachelor of Science with a major in Anatomy from the University of New South Wales, or its equivalent, and a Graduate Diploma in Physiotherapy from Cumberland College of Health Sciences, or

c) Possess such qualifications as are deemed to be equivalent to (a) and/or (b).

d) Other evidence of general and/or professional qualifications as will satisfy the Postgraduate Studies Committee of the Faculty of Health Sciences that the applicant possesses the educational preparation and capacity to pursue graduate studies.

For instance, diploma holders applying for admission will need to provide evidence of additional relevant academic background or experience; these applicants should contact the Course Coordinator Elizabeth Henley (ext. 6268) for further information.

Applicants should also have at least two years recent graduate clinical experience some of which should have been in the field of neurological physiotherapy.

Selection
Selection will take into account employment history, qualifications, continuing education and other professional development.

Subject Enrolment
Enrolment in all physiotherapy (16***) subjects is dependent upon the applicant being eligible to enrol in this course.

Progression
Progression from the graduate diploma to the masters programme, whether the student originally enrolled in the graduate diploma or the masters programme, will be dependent upon satisfactory performance in the graduate diploma subjects.

Course Outline
The Course Outline for the Graduate Diploma of Applied Science (Neurological Physiotherapy) is presented in Table 13.13.

Subject Descriptions

10472 Motor Performance and Learning
Semester 1-28 hours
This subject considers principles underlying skilled motor performance:- sensory contributions to performance, processing information and making decisions, motor production and motor programs. It then looks at principles underlying skilled learning:- preparation, practice strategies and feedback. Activities studied include walking, reaching and grasping, speaking, singing and smiling, eye hand coordination and hitting approaching balls. Ecological and motor program approaches to motor learning are considered.

11461 Clinical Biomechanics
Semester 2-28 hours
Prerequisites: Mechanics of Human Movement (11468)
The purpose of this subject is to improve the student's capacity to predict the mechanical effects of training regimes, trauma, movement styles and their repetition on tissues and regions of the body, and to differentiate this response in different age groups. This will be achieved by the study of sources and characteristics of forces and the ways in which they are transmitted through the body via tissues and regions of the body. High- and low-technology biomechanical measurement methods which assist in the development of clinical biomechanical measurement protocols will be examined.

11468 Mechanics of Human Movement
Semester 1-42 hours
Prerequisite: Mechanics of Human Movement (11468)
The purpose of this subject is to provide biomechanical concepts and skills required for the analysis of human movement. Principles of kinematics, kinetics and electromyography in dynamic muscle movements, and mechanical energy distribution will be studied with reference to selected motor activities. Laboratory sessions will be used to provide illustrations of the above principles and to give students experience with biomechanical laboratory techniques. This subject is only open to graduates who have studied biomechanics previously.
11429  Applied Physiology I  
**Semester 1-56 hours**
This subject will provide the student with a developing infrastructure for Applied Physiology II. Initially, this subject will involve a systems approach with emphasis on applied physiological situations. Only when the basic physiological systems have been reviewed and expanded, will the more integrative aspects of the exercise response be attempted. While the subject content is broad, it nevertheless assumes a sound physiology background. Particular attention will be given to the cardiovascular, respiratory, and metabolic systems.

16508  Scientific Investigation I  
**Semester 2-28 hours**
This subject develops students' skills in analysis of data. It examines common statistical tests with the aim of enabling students to understand research papers as well as enabling them to choose appropriate statistical methods of analysing data. It also examines issues relating to measurement including reliability and validity. Students will have the opportunity to apply statistical tests to small data sets of measurement procedures that they will collect, or that have been previously collected.

16519  Neurological Rehabilitation  
**Semester 2-28 hours**
This subject provides the forum for students to examine the process of rehabilitation, the environment in which it takes place, factors which may influence outcome and the promotion of physical conditioning.

164E6  Clinical Neurological Physiotherapy A  
**Semester 1-28 hours**
This subject involves both on- and off-campus clinical hours. It provides students with the opportunity to apply knowledge gained during the course within a clinical environment. Clinical placement will depend upon identified needs of the students and the availability of appropriate clinical areas.

164E9  Clinical Neurological Physiotherapy B  
**Semester 1-42 hours**
This subject involves both on- and off-campus clinical hours. It provides students with the opportunity to apply knowledge gained during the course within a clinical environment. Clinical placement will depend upon identified needs of the students and the availability of appropriate clinical areas.

16512  Scientific Investigation II  
**Semester 1-28 hours**
This subject develops students' skills in writing scientifically. The content for this subject covers developing research questions and writing them up as a grant submission. The issues of developing research questions by setting the inquiry in the context of the state of the profession, the state of scientific knowledge of the area and an evaluation of existing paradigms will be examined. Students' learning will involve preparing an annotated bibliography and writing a proposal as if applying for funding from the Physiotherapy Research Foundation.

164E4  Topics In Neurological Physiotherapy  
**Semester 1-14 hours**  
**Semester 2-28 hours**
This subject covers a wide range of neurological topics specifically related to the dyscontrol characteristics associated with neurological lesions and the resultant adaptations of both motor and psychological behaviour. Students will also study the historical developments in neurological physiotherapy.

164E7  Foundations For Physiotherapy Practice  
**Semester 2-42 hours**
In this subject, students examine normal motor behaviour in order to develop skill in analysing motor performance, planning and implementing motor training and preventing disabling adaptive processes. Note: This subject involves both clinical and academic experiences.
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**Note**

Electives in each semester may be chosen from those subjects offered by the Faculty of Health Sciences, subject to approval by the Course Co-ordinator (Associate Professor Janet Carr, ext.6271) and the Heads of Schools or Departments in which the subject is offered. Subjects from other Faculties within the University may also be considered suitable as electives, subject to the same conditions.
Master of Applied Science (Neurological Physiotherapy)

Enquiries
Graduate Diploma Course Coordinator: Associate Professor Janet Carr (ext. 6271) or Colleen Canning (ext. 6263)
Masters Course Coordinator: Elizabeth Henley (ext. 6268)

Admission Requirements
To qualify for admission to the Master of Applied Science (Neurological Physiotherapy) applicants shall:

a) Possess an award of Bachelor of Applied Science (Physiotherapy) from the Cumberland College of Health Sciences or from the University of Sydney or
b) Possess an award of Bachelor of Science with a major in Anatomy from the University of New South Wales, or its equivalent, and a Graduate Diploma in Physiotherapy from Cumberland College of Health Sciences, or
c) Possess such qualifications as are deemed to be equivalent to (a) and/or (b).

Applicants should also have at least two years recent graduate clinical experience some of which should have been in the field of neurological physiotherapy.

Selection
Selection, will take into account employment history, qualifications, continuing education and other professional development.

Subject Enrolment
Enrolment in all physiotherapy (16***) subjects is dependent upon the applicant being eligible to enrol in this course.

Advanced Standing
Applicants holding an approved graduate diploma in manipulative physiotherapy may apply for Advanced Standing in the Masters programme. Decisions will be made on an individual basis.

Progression
Progression from the graduate diploma to the masters programme, whether the student originally enrolled in the graduate diploma or the masters programme, will be dependent upon satisfactory performance in the graduate diploma subjects.

Course Outline
The Course Outline for the Master of Applied Science (Neurological Physiotherapy) is presented in Table 13.14.

Subject Descriptions
Refer to the Graduate Diploma of Applied Science (Neurological Physiotherapy) for subject descriptions not listed below.

08503 History and Philosophy of Scientific Methodology
Semester 1-28 hours
This subject is designed to provide students with a critical perspective on science as a specific form of knowledge. It introduces students to the major philosophies of the scientific enterprise taking into account the social versus natural science controversy.

164B3 Distinguished Scientist Series
Semester 1-28 hours
This subject involves the study of a researcher's (or group of researchers') work in detail. The researcher(s) will be invited to the campus to participate in seminars to enable the students to discuss and explore issues with them directly. The content will be decided on the basis of the individual interests of the students.

164B4 Treatise
Semester 1 and/or 2-168 hours
The treatise involves the preparation of an non-research work in a specific area of interest under supervision. It is a substantial scholarly work that is an exposition of a range of knowledge and is expected to include original argument substantiated by reference to acknowledged authorities. It does not usually involve data collection but may take the form of developing a clinical tool. The aim of this work is for students to integrate background material and provide cohesive, structured suggestions for physiotherapy development or practice. It is carried out in partial fulfilment of the master degree by coursework. Some hours are set aside for classes in scientific writing but the majority of the hours will be spent in consultation with the supervisor or in independent study.
### Table 13.15 Master of Applied Science (Physiotherapy) (by Research)

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<th>Sem 2</th>
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#### Note

1. Elective Research Subjects: Students select two of the following subjects (subject to sufficient student numbers) in consultation with their supervisors:

   - 08501 Epidemiological Research
   - 08502 Evaluation Research
   - 08503 History and Philosophy of Scientific Methodology
   - 10503 Advanced Research Methods
   - 10504 Quantitative Research Methods
   - 10505 Qualitative Research Methods
   - 11501 Biological Measurement and Analysis
   - 16505 Research Elective Independent Study
   - 164D8 Scientific Investigation C
   - 10514 Survey Research Methods
   - 15465 Single system Research Design and Evaluation Methods
   - 10552 Group and Single Case Experimental Research in Clinical Settings

   (For description of electives please also see Appendix 1 later in this book.)
Master of Applied Science (Physiotherapy) (By Research)
The Master of Applied Science (Physiotherapy) course is a research degree. The course is designed to provide opportunity for research and scholarship in specific areas of physiotherapy.

Enquiries
Course Coordinator:
Sharon Kilbreath (ext. 6272)

Admission Requirements
1. Possess a Bachelor Degree in Physiotherapy from Cumberland College of Health Sciences or The University of Sydney,
   OR
2. Possess an award of Bachelor of Science or its equivalent and a graduate diploma in Physiotherapy from Cumberland College of Health Sciences,
   OR
3. Possess such qualifications as are deemed to be equivalent to (1) and/or (2),
   OR
4. Submit such other evidence of general and/or professional qualifications as will satisfy the Faculty that the applicant possesses the educational preparations and capacity to pursue graduate studies, and shall satisfy such additional requirements for admission to a particular programme, if any, as may be prescribed by the Faculty.

Time Limits
The standard course comprises enabling research subjects, thesis workshop subjects and research thesis. Students who enter the course with adequate research preparation may be exempt from completing some or all of the enabling subjects, ie. Research Electives and Thesis Workshop A (16501). Usually these students would have completed an approved bachelor degree programme at honours level I or II. The minimum length of the course for such students is 1 year full time or 2 years part time.

Course Outline
The Course Outline for the Master of Applied Science (Physiotherapy) is presented in Table 13.15.

Subject Descriptions

164D8 Scientific Investigation C
*Semesters: 1 and 2* 42 hours
Scientific Investigation C is intended for students enrolled in the Master of Applied Science (Physiotherapy) degree and requires the student to complete 42 hours of content from within the subjects 16508 Scientific Investigation I and 16512 Scientific Investigation II as negotiated with the Master’s Coursework Programmes Coordinator.

16501 Thesis Workshop A
*Total: 84 hours*
This subject is designed to orient students to study at Masters level and to give a formal structure to support the development of a research proposal. It also provides a forum in which to exchange and test ideas pertaining to the development of the research proposal.

16502 Thesis Workshop B
*Total: 63 hours*
This subject continues to give support to students who are setting up and running a research project. It provides opportunities for students to report on work in progress, defend developments and procedures to be used in the project and supports the production of specific sections of the research thesis.

16503 Masters Research Thesis
The successful submission of a research thesis is the ultimate objective of the course. This process will necessitate a collaborative endeavour between the student and the supervisor and will involve the student's advisory committee.

16505 Research Elective Independent Study
*Total: 42 hours*
(For Physiotherapy Research students only)
This subject will function as an independent study program. As with other research elective subjects, it allows students to pursue an area of study related to the development of knowledge and skills in a specific area of research methods in preparation for their thesis.

Research Electives

Semester 1 42 hours
Semester 2 42 hours
For most elective subject descriptions, see Appendix 1.
Clinical Education
Clinical education provides students with the opportunity to complement the knowledge and skills acquired in the academic segments of the programme. This is achieved through the assessment and treatment of patients in clinical settings under the supervision and guidance of clinical educators. Clinical education offers undergraduates the chance to integrate academic subjects and practical skills in a clinical setting thereby gaining experience in physiotherapy practice.

During the undergraduate programme students are allocated to placements within the Sydney metropolitan area, and to country areas. All students are required to do at least one country placement. Opportunities may exist for senior students to elect to do an interstate or overseas placement depending on availability.

It is a requirement that all students obtain a certificate of competency in Cardiopulmonary Resuscitation (CPR). This must be completed and evidence of competency shown BEFORE commencing the FIRST CLINICAL PLACEMENT in 2ND YEAR.

St. John Ambulance programmes on CPR are available through the metropolitan and country areas. Life-saving certificates of CPR competency will also be accepted.

A specific number of clinical hours is required to ensure adequate clinical practice. Time missed from clinical placements must normally be made up, at the discretion of the Head of School. There is no set number of days which can be missed. This is quite a separate issue from the achievements of the clinical objectives which are assessed on each clinical. The make up of time is necessary since there is a requirement for registration as a physiotherapist that a certain amount of clinical practice be completed during the programme.

The make up time is completed in weeks between Semester 2 Exams and Christmas, and students are advised to take this into consideration before arranging holidays. Students in Year 4 may be required to complete makeup time during the inter-semester break.

1995 Clinical Practice Dates
Pass and Honours Programme
Year 2
Inter-semester Break and Semester 2
Group A July 3 - July 28
Group B July 31 - August 25
Semester 2
Group A August 28 - September 22
Group B September 25 - October 20
Year 3
Group B July 3 - August 4
Group A August 7 - September 8

Pass Programme - only
Year 4
Pre-semester 1
Groups A and B February 13 - March 17
Semester 1
Group A March 20 - April 21
Group B May 1 - June 2
Semester 2
Groups A and B October 9 - November 10

Honours Programme
Year 4
Pre-semester 1 and Semester 1
January 16 - February 10, February 13 - March 17
Semester 2
October 9 - November 10

Note: Time missed from clinical placements must be made up at the discretion of the Head of School.

Uniforms
The uniform required for Physiotherapy students is as set out below:

Female
Regulation denim blue culotte or navy blue tailored trousers (straight legs)
White blouse
White shoes
Natural coloured stockings (white socks maybe worn with trousers)
Navy cardigan or jumper

Male
Regulation navy blue trousers or shorts
White short sleeved, open neck shirt
White shoes
White walk socks
Navy jumper or cardigan

Arrangements will be made for a representative of the supplier to come to the Student Union and take uniform orders. Please leave purchase of your uniforms until this time.

Plain navy cardigans and navy pullovers may be purchased at most large department stores.
14 Off-Shore (Singapore) Conversion Courses

The chapter provides detailed course proposals for four, bachelors degrees in nursing, occupational therapy, physiotherapy and radiography.

These courses are off-shore (Singapore-based) programs which are conducted by the Faculty of Health Sciences in conjunction with the Singapore Institute of Management. They arose from a successful tender by the Faculty to conduct these courses in Singapore for local residents. Graduates from the program will graduate with a University of Sydney award.

The Singapore government, through the Ministry of Health, wishes conversion course options to be available for nurses, occupational therapists, radiographers, radiation therapists and physiotherapists who have trained overseas. In the future these courses will be open to NYP (Nanyang Polytechnic) diplomats, and similar programs could be developed for other health professions.

Each of the four courses consist of 420 hours of theoretical content and 60 hours of clinical field work (unsupervised). They will be run in part-time mode over 2 years. The courses are designed in modular format, comprising 14 modules/units of 30 or 45 hours of student contact. Each module/unit will be timetabled over 3 weeks, and will operate independently of other modules/units.

The ongoing responsibility for managing the course will lie with the Faculty of Health Sciences. In particular the Director, Special Projects and the Dean's Office will co-ordinate interactions with the Singapore Institute of Management, the Singapore Ministry of Health, and the Faculty of Nursing.

The four academic programs will be managed by one inter-departmental committee comprising representatives from the departments/schools at Faculty of Health Sciences who will involved in teaching in the courses. The chair of the committee will be a member of the Faculty of Health Sciences appointed by the Dean of the Faculty of Health Sciences and be responsible to the Dean and to Faculty. The Faculty of Nursing will be invited to nominate a representative to this committee.

The role of the Singapore Institute of Management is to provide a vehicle for implementing the courses.
## Table 14.1 Bachelor of Health Science (Nursing)

<table>
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Bachelor of Health Science (Nursing)
This program will commence in 1994 (subject to final approval).

Admission requirements
EITHER [(a) or (b) or (c)] and [(d) and (e)]
a) a Diploma in Nursing from Nanyang Polytechnic, Singapore;
OR
b) a Diploma in Nursing from an approved institution;
OR
c) a Certificate in Nursing from the Singapore School of Nursing, or its equivalent;
AND
d) a minimum of 3 years nursing clinical practice after graduation;
AND
e) employment as a registered nurse in a working environment appropriate to their profession and acceptable to the University.

Subject Descriptions

20401 The Nature of Health Care Delivery
Hours - 30
This module introduces the student to the social, cultural, political, economic dimensions of health care. The unit aims to provide an understanding of the factors which influence the health of the population and the delivery of health care.

20402 Ethical Dimensions of Health Care Delivery
Hours - 30
This module examines the ethical issues which confront health professionals and provides a framework for their analysis. The works of several moral theorists will be presented to provide an underpinning for the examination of health care issues.

20403 Psychology of Teaching and Learning
Hours - 30
This unit aims to provide an understanding of the processes of teaching and learning and the relationship between them. It also provides experiences in applying that understanding to the teaching of students, clients, health professionals and others. The unit explores the concepts of teaching and learning; provide an overview of learning theories and types of learning; consider the significance of motivation and reinforcement in the process of learning; and explore theories of learning in the cognitive, affective and psychomotor domain and consider their implication for teaching.

20404 Research Methods 1
Hours - 30
This module/unit examines the key approaches, methods and designs by which research is undertaken in the health professions. It incorporates an outline of the research process which will guide the students through a simple descriptive study. Students will develop basic skills related to data collecting instruments, data collection, data analysis and interpretation of findings. Particular issues relating to evaluation and epidemiological research as well as observational, clinical and survey research are included.

20405 The Legal Perspectives
Hours - 30
This module develops the students' awareness of law as it relates to health care and management. Issues relevant to the Singapore legal system will be highlighted.

20406 Patient/Client Education
Hours - 45
This module/unit develops the knowledge from the previous unit and provide students with the opportunity to develop teaching skills. This module/unit contains field work (15 hours).

20407 Research Methods 2
Hours - 45
This module/unit extends the skills acquired in Module/unit 4 to inferential research procedures and methods appropriate to the health professions. Topics include probability, significance, confidence intervals, inferential statistics, discriminant analysis, multiple group designs, and bio-statistics. Part of this module/unit includes the application of the skills acquired in a clinical context.

20408 Pathophysiology
Hours - 30
This module/unit examines the major causative factors of disease and their relationship to the epidemiology of illness.

20409 Sociology of Work and Organisations
Hours - 30
This module/unit examines the structural and procedural aspects of organisations, using a sociological framework. There is an emphasis on the hospital as the major workplace of health care professionals, especially nurses, and addresses pertinent concerns and issues.
20410  Financial Management in the health services.

*Hours* - 45
This module introduces the students to the financial management of hospitals and health services institutions. Topics covered include basic accounting procedures, financial and budgetary process, types of budgets, and auditing procedures. In addition the module covers hospital accounting systems and methods of funding, hospital cost analysis and control, and clinical costing systems. This module has 15 non-teaching hours to enable practical application of the theory taught.

20411  Sociology of Client/Practitioner Relationships.

*Hours* - 30
This module/unit examines the practitioner/patient relationship within the generic professional-client model. Different sociological paradigms are applied to analyse structure, conflict, interaction, affect and social skill in the practitioner-patient relationship.

20412  Health Assessment

*Hours* - 30
This module/unit provides students with an understanding of the principles of health assessment and the skills necessary to undertake health history and physical examination.

20413  Management in Nursing

*Hours* - 30
This module introduces students to theories and general principles of management and relates these to the management of health services. Topics focus on both traditional and contemporary management theories and the management functions of planning, organising, leading and controlling. Other areas covered include total quality management, human resource management, and the management of conflict and change in the workplace.

20414  Advanced Clinical Studies

*Hours* - 45
This module/unit provides students with the opportunity to examine various aspects of nursing practice. Various nursing practices will be examined for their relevance and appropriateness, using knowledge from a variety of sources. This module/unit has 15 non teaching hours to enable practical application of the theory taught.
### Table 14.2 Bachelor of Health Science (Occupational Therapy)

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**Year 2**

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Bachelor of Health Science (Occupational Therapy)
This program will commence in 1994 (subject to final approval).

Admission requirements
EITHER [(a) or (b)] and (c)

a) a Diploma in Occupational Therapy from Nanyang Polytechnic, Singapore, with A level entry; OR
b) an approved Diploma in Occupational Therapy from outside Singapore, minimum 3 years, with entry level at the minimum eligibility requirements in the GCE "A" level examinations or their equivalent; AND
c) a minimum of 2 years Occupational Therapy clinical practice after graduation.

Subject Descriptions

20415 Occupational Therapy Theory and Process A

Hours - 30
This module examines the theoretical and philosophical foundations underlying current occupational therapy practice. Specifically, students will explore these issues in relation to service delivery in their own work settings, identifying areas requiring professional development, quality improvement and strategic service planning.

20416 Occupational Therapy Theory and Process B

Hours - 30
This module examines issues concerning assessment and management of individual, group and department performance in occupational therapy. Specifically, this module introduces students to theories of management, organisational development and changing work performance. Students will explore these theories in relation to their own work settings, identifying management approaches and organisational development needs.

20417 Advanced Evaluation of Occupational Therapy Programs

Hours - 45
This module provides students with an understanding of the principles of program evaluation in clinical settings and an introduction to strategies for program needs assessment, process evaluation, impact and efficiency evaluation. Students have an opportunity to systematically plan, participate in and document a program evaluation. This module has 15 non teaching hours to enable practical application of theory taught.
Table 14.3  Bachelor of Health Science (Physiotherapy)

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**Part-time Mode**

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</table>
Bachelor of Health Science (Physiotherapy)
This program will commence in 1994 (subject to final approval).

Admission requirements
EITHER [(a) or (b)] and (c)

a) a Diploma in Physiotherapy from Nanyang Polytechnic, Singapore, with A level entry;
   OR
b) an approved Diploma in Physiotherapy from outside Singapore, minimum 3 years, with entry level at the minimum eligibility requirements in the GCE "A" level examinations or their equivalent; AND
c) a minimum of 2 years Physiotherapy clinical practice after graduation.

Subject Descriptions

20418 Evaluation in Physiotherapy

*Hours - 30*

The aim of this module is to explore the principles and procedures of quality assurance specifically in relation to evaluation of patient outcomes. This module provides the opportunity to identify areas in which evaluation can be used to direct physiotherapy intervention; to discuss practical aspects as well as philosophical issues related to measurement of outcome; and to investigate the variety of measures used to assess clinical outcomes. Students will also explore these issues in their own workplace.

20419 Topics in Physiotherapy Management

*Hours - 30*

In this module, students will address issues related to specific topic in physiotherapy which will facilitate/enhance their managerial abilities. Topics will include: the assessment and management of individual, group and department performance; occupational health and safety; the evaluation of new technology and equipment in terms of clinical and scientific merit and cost-effectiveness; analyses of the environment (e.g. physiotherapy department) to identify to what extent it meets the goals set forth by that department; presentation of submissions; marketing, ethics and public relations; politics of health care; continuing professional development.

20420 Advanced Physiotherapy Studies

*Hours - 45*

This module provides the opportunity to evaluate clinical trials in selected areas of physiotherapy through discussion on: the prevailing clinical opinions on the effectiveness of particular physiotherapy treatments as reflected in the literature; the degree of confidence that can be attached to the proposed scientific basis for the treatment; and an analysis of outcome studies on the effectiveness of intervention.
### Table 14.4 Bachelor of Health Science (Medical Radiation Technology)

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#### Part-time Mode

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<td>Computer Communications in Medical Radiation Technology</td>
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<td>20423</td>
<td>Management of Equipment Selection</td>
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</table>
Bachelor of Health Sciences
(Medical Radiation Technology)
This program will commence in 1994 (subject to final approval).

Admission requirements
EITHER [(a) or (b)]
a) a Diploma in Radiography from Nanyang Polytechnic, Singapore, with A level entry, AND a minimum of 2 years medical radiation technology clinical practice after graduation;
OR
b) a Diploma of the College of Radiographers (Singapore) or equivalent, AND a minimum of 3 years medical radiation technology clinical practice after graduation.

Subject Descriptions

20421 Department Design and Safety Issues

*Hours* - 30
This module provides students with the opportunity to examine the physical structure of departmental design including consideration of radiation safety aspects. In addition general safety issues for staff and patients will be examined.

20422 Computer Communications in Medical Radiation Technology

*Hours* - 30
This module provides students with an understanding of the design implications necessary for image management and the communication systems needed to facilitate correct patient care procedures. This module also provides the student with the opportunity to examine design requirements necessary to efficiently utilise staff time and movements within a Medical Radiation Department.

20423 Management of Equipment Selection

*Hours* - 45
This module provides students with an understanding of the procedural and managerial aspects of tendering for equipment used in the medical radiations. The composition of relevant government tender documents will be examined and students will be introduced to the organisational aspects of managing the tendering process. This module has 15 hours non teaching hours to enable practical application of theory taught.
Clinical Education (Fieldwork/Professional Experience)

The term clinical education refers to the supervised practice of professional skills and it is especially appropriate to courses which are largely clinically based. Professions which offer services in a more social or a non-clinical context have adopted terms such as professional experience and fieldwork to describe supervised practice.

Clinical education is an integral part of the overall learning experience for students in all undergraduate and some graduate courses offered in the Faculty of Health Sciences. In undergraduate courses, students can expect to spend between 25 - 40% of their total course hours in clinical education. The purpose of clinical education is to provide students with opportunities to integrate knowledge and skills at progressively higher levels of performance and responsibility during the course. Under the supervision of qualified practitioners, students seek to apply theories and scientific findings, learned in their academic study, and develop their skills through interaction with clients and practitioners. Clinical education also provides students with situations in which to practise interpersonal skills and develop characteristics essential to productive working relationships. It also provides an opportunity for students to develop clinical reasoning skills, management skills and as well to master techniques that develop competence at the level of a beginning practitioner.

Clinical education is provided in a variety of settings reflecting the current trends for the profession concerned. The facilities include hospitals, government agencies, schools, community health centres, private health agencies, private practice, and on-campus clinics. The settings may be located in metropolitan and rural areas of New South Wales and, occasionally, interstate and overseas.

The timing and structure of clinical education will vary according to School preferences. Patterns include day-release programmes during the semester, clinical simulation in the classroom, and periodic block placements.

Students should be aware of the patterns of clinical education related to their courses as the timing and structure of clinical education have implications regarding the exact length of courses and vacation time over the period of enrolment.

Arrangement of Clinical Education
Clinical education is arranged by negotiation between staff of the respective School, acting as clinical coordinators, and the directors of the individual clinical settings. The School negotiates the standard, type of experience, and number of student places to be offered. In most cases, formal agreements are signed between the University and the placement facility. In some instances, the arrangements are informal, reflecting the mutual dependency of health and education in providing academically and clinically competent health professionals to meet the challenges confronting them in delivering quality health services in a complex society.

Assessment of Students
Students are expected to take an active responsibility for their own education by identifying their own learning needs, assisting the supervisor in planning and implementing the learning experiences, being familiar with and adhering to procedures and rules laid down by the University and the affiliating centre, and in evaluating their own performance. The clinical supervisor performs the role of teacher, facilitator, coordinator and professional role model. Supervision may be conducted by School staff, or by practitioners expert in their professional area. The nature of the assessment varies across Schools but usually includes a student evaluation by both the supervisor and the student, the satisfactory completion of a specified number of hours, as well as a variety of assignments including case studies, essays, verbal presentations, and practical examinations. The clinical education subject may be assessed on a graded scale or on a Pass/Fail basis.

Rules Applying to Clinical Education
In all clinical situations, the welfare of the client is paramount. The client's dignity and rights to privacy and confidentiality must be respected at all times. Students who do not comply with the rules governing ethical practice may be removed from the clinical placement.

During clinical affiliations, the student is expected to conform with the normal professional conduct required by the host institution. In some institutions, the wearing of uniforms and identification badges is demanded, while in other facilities a less formal attire is acceptable. Students should consult the section of the Handbook, relating to clinical education subject for their particular course, for information relating to uniforms and name badges.

There are a number of rules and conditions applying to students regarding the amount of clinical education, the timing of it, the selection of sites, and types of experiences required. These rules have implications for progression in the course and acceptance into the relevant profession after graduation.

Students should consult the relevant Handbooks of their Schools for such rules and details of the Clinical Education/Fieldwork/Professional Experience Programme.
Students should note that the Faculty has resolved as follows: "Candidates for any (degree, diploma or certificate) whose conduct or work towards their award is unsatisfactory may, on the recommendation of the Head of School/Department concerned, by refused permission by the Faculty to undertake or continue the Clinical Educational Fieldwork/Professional Experience) component of their award."

**Clinical Practice Dates**
Please refer to Clinical Practice Dates listed under each course.

**Insurance Coverage for Students on Fieldwork**
The University has in place a third party liability policy which extends to protect students from claims made against them arising out of any negligent act, error, or omission during such fieldwork. The territorial limit for this is worldwide with the exclusion of U.S.A. and Canada. The Properties Services Division should be advised if fieldwork is to be undertaken in U.S.A. or Canada.

**Other Relevant Policies**
The University has a personal accident policy covering postgraduate students against accidental bodily injury, providing death and capital benefits, as well as a weekly benefit whilst disabled. The Students’ Representative Council of the University maintains a similar policy for undergraduates.

**Information on Communicable Diseases for Students and Clinical Teachers**
Communicable diseases are of concern to all those working in clinical settings. Whilst an understanding of the transmission of diseases such as AIDS, Hepatitis and Tuberculosis is particularly important, all students and clinical teachers must acquaint themselves with information about the potential dangers of all communicable diseases likely to be experienced in Australia. They should be aware of sources of infectious micro-organisms, their modes of transmission and the ways of reducing the risk of infection to self, patients and others.

Detailed information on this subject is contained in the documents such as "Infectious Disease and You" published by the Faculty. A copy may be obtained from the Students Services Division (Cumberland).

Further information about infectious diseases is available, in confidence, from the Faculty adviser, Dr Ken Wade, Director, Student Services (Cumberland), (646 6236)

**SCHOOL OF COMMUNICATION DISORDERS**
The School of Communication Disorders wishes to acknowledge the contributions to the clinical education program December 1993 - December 1994 of the following agencies.

**Public Hospitals**

**Metropolitan**
Balmain Hospital
Blacktown Hospital
Canterbury Hospital
Concord Hospital
Coorabell Hospital, Ryde
Hornsby Kuringai Hospital
Lady Davidson Hospital, Ryde
Lidcombe Hospital
Liverpool Hospital
Manly Hospital
Mona Vale Hospital
Mt Druitt Hospital
Prince Henry Hospital, Little Bay
Prince of Wales Hospital, Randwick
Royal Alexandria Hospital for Children, Camperdown
Royal North Shore Hospital, St Leonards
Royal Prince Alfred Hospital, Camperdown
Royal Ryde Hospital
Royal South Sydney Hospital, Zetland
Ryde Hospital
St George Hospital, Kogarah
St Joseph’s Hospital, Auburn
Sutherland Hospital
War Memorial Hospital, Naremburn
Western Suburbs Hospital, Croydon
Westmead Hospital

**Overseas/Country/Interstate**
Belmont District Hospital
Blue Mountains District Hospital
Camden and Campbelltown Hospital
Cessnock and Kurri Kurri Hospital
Coomadale Hospital
Forbes District Hospital
Gippsland Base Hospital
Gold Coast Hospital, Qld
Gosford Hospital
Grafton Base Hospital
Ullawarra Regional Hospital
John Hunter Hospital, Newcastle
Launceston General Hospital
Mackay Base Hospital
Manning Base Hospital, Taree
Milton Ulladulla Hospital
Muswellbrook Hospital
Orange Base Hospital
Port Kembla Hospital
Rankin Park Hospital, Newcastle
Royal Newcastle Hospital
Shoalhaven Hospital
Tamworth Base Hospital
University of West Middlesex Hospital, U K
Wagga Wagga Base Hospital
Woden Valley Hospital
Woy Woy Rehabilitation Hospital
Wyong Hospital

**Private Hospitals**
Governor Philip Hospital, Penrith
Lourdes Hospital, Dubbo
Mater Hospital, Newcastle
Neringah Hospital, Wahroonga
St Vincent's Hospital, Darlinghurst

**Commonwealth Government Agencies**
Commonwealth Rehabilitation Service (CRS)
CRS Albury
CRS Hurstville
CRS Liverpool
CRS Parramatta

**Department of Health**
Armidale Community Health Centre
Armidale Need Centre
Bankstown Community Health Centre
Bateau Bay Community Health Centre
Bathurst Rehabilitation Centre
Berowra Community Health Centre
Bexley North Therapy Centre
Chatswood Community Health Centre
Childrens Assessment & Intervention Team, ACT
Coffs Harbour Community Health Centre
Cooma Community Health Centre
Cootamundra Community Health Centre
Eastgardens Community Health Centre
Forest Lodge Community Health Centre
Griffith Community Health Centre
Ingleburn Community Health Centre
Kincumber Community Health Centre
Lower Hunter Community Health Centre
Macksville Community Health Centre
Marrickville Community Health Centre
Merrylands Community Health Centre
Moruya Community Health Centre
Newcastle Community Health Centre
Pennant Hills Community Health Centre
Port Macquarie Community Health Centre
Queenscliff Community Health Centre
Shellharbour Child & Family Services
Toronto Community Health Centre
Wagga Wagga Community Health Centre
Wingham Assessment & Rehabilitation Centre
Young Community Health Centre

**Department of Family and Community Services**
ACT Developmental Disability Service
Eastern Sydney Developmental Disability Service
Ulawarra Developmental Disability Service
Macarthur Developmental Disability Service
Manly Warringah Developmental Disability Service
Prospect Developmental Disability Service

**Public Schools**
Annandale Public School
Burwood Public School
Far West Children Home, Manly
Fitzgerald State School, Qld
Madang Avenue Public School, Whalan
Mayfield Primary School, Launceston, Tas
Penrhurst Public School
St Andrews Public School
Sutherland Special Education Unit
Toongabbie West Public School

**Private Schools**
Kingsdene School, Pennant Hills
Sacred Heart School, Mona Vale
St Josephs School, Narrabeen

**Community Agencies and Private Organisations**
Spastic Centre of NSW

**Other Organisations**
Catholic Education Office, Diocese of Broken Bay

**SCHOOL OF COMMUNITY HEALTH**
The School of Community Health wishes to acknowledge the following organisations for their contribution to the 1994 Field Experience in the Diploma and Bachelor of Health Science (Aboriginal Health and Community Development) and the Associate Diploma, Bachelor Degree, Graduate Diploma and Master Courses in Rehabilitation Counselling:

**Aboriginal Health and Community Development**

**Aboriginal Corporation's**
Aboriginal Co-ordinating Council, Cairns QLD
Aboriginal Student Support Parent Association Committee, Bateman's Bay NSW
Bateman's Bay Aboriginal Corporation, Bateman's Bay NSW
Bateman's Bay Koori Centre, Bateman's Bay NSW
Boggabilla Aboriginal Corporation, Boggabilla NSW
Brown's Flat Aboriginal Corporation, Nowra NSW
Campbelltown and District Aboriginal Corporation, Campbelltown NSW
Coomella Youth Development Corporation
Dareton NSW
Illaroo Co-operative Aboriginal Corporation, Nowra NSW
Ulwarra United Aboriginal Corporation for Sport and Recreation Wollongong NSW
Kalumburu Aboriginal Corporation Via Wyndham Kimberley WA
Katungal Aboriginal Corporation, Narooma NSW
Koori Aged Community Care, Bateman's Bay NSW
Multi-skilled Aboriginal Childrens Service, Bathurst NSW

* Field Placements organised after the printing of this Handbook will be acknowledged in the 1996 Handbook.
Munjuwa Queanbeyan Aboriginal Corporation, Queanbeyan NSW
New Horizons Aboriginal Corporation, Commercial and Industrial Tabulum NSW
Orana Haven Aboriginal Corporation, Brewarrina NSW
South Coast Youth Movement Aboriginal Corporation, Nowra NSW
Twofold Aboriginal Corporation, Eden NSW
Ulladulla Aboriginal Corporation, Ulladulla NSW
Urimbirra Aboriginal Corporation, NSW
Waminda South Coast Women’s Aboriginal Corporation, Nowra NSW
Willow Bend Aboriginal Corporation, Condobolin NSW

Aboriginal Health Service’s/Health Centre’s
Aboriginal Community Health, Redfern NSW
Aboriginal Health Service, Brewarrina NSW
Aboriginal & Islander Community Health Service, North Stradbroke Island QLD
Arunga Health, Matraville NSW
Central Coast Area Health Service, Gosford NSW
Community Health Centre, Griffith NSW
Community Health, Thursday Island QLD
Narooma Community Health Centre, Narooma NSW
Orana Community Health Centre, Dubbo NSW
Primary Health Service’s, Coffs Harbour NSW
Riverina Health Service, Wagga Wagga NSW
Toomelah Health Centre, Boggabilla NSW
Wagga Community Health Centre, Wagga Wagga NSW
Women’s Health Centre, Dubbo NSW

Community Organisations and Private Organisations
A Women’s Place, Sydney City Mission, Chippendale NSW
Bennalong Haven, Kinchela Creek NSW
Boomanulla Oval, Narrabundah NSW
Burnside Youth Centre, Campbelltown NSW
Carma Community Development Employment Program, Dareton NSW
Cawarra Women’s Refuge, Mount Druitt NSW
Central Coast Division of General Practice, Gosford NSW
Community Development Employment Program, Wee Waa NSW
Dooonooch Self Healing Centre, Nowra NSW
Homecare, Dubbo NSW
Innovative Youth Program, Wooloongabba QLD
Karringal Youth Crisis Centre, Croydon NSW
Marrickville Women’s Refuge, Newtown NSW
Narrabri Hospital, Narrabri NSW
Oolong House, Nowra NSW
Police Citizens Youth Club, Redfern NSW
Skillshare, Moruya NSW
Southern Women’s Housing, Bega NSW
Wunanbiri Pre-School, Surry Hills NSW
Yalga Bimbi Community Development, Cairns QLD

Aboriginal Housing Corporation
Barriekeen Housing & Community LTD, Lightning Ridge NSW
Cooraman Housing and Enterprise Aboriginal Corporation, Glen Innes NSW
Eastern Zone Aboriginal Housing and Community Corporation, Matraville NSW
Nyampa Aboriginal Housing Company, Menindee NSW
Widjeri Housing Co-operative, Bourke NSW

Aboriginal Land Council
Aboriginal Land Council, Parramatta NSW
Gandagarra Land Council, Canley Vale NSW
Local Aboriginal Land Council, Pilliga NSW
Merrimans Local Aboriginal Land Council, Wallaga Lake NSW

Aboriginal Medical Service’s
Aboriginal Medical Service, Bourke NSW
Aboriginal Medical Service, Kimberley’s Broome WA
Aboriginal Medical Service, Redfern NSW
Aboriginal Medical Service, Wellington NSW
Biripi Aboriginal Medical Service, Tarae NSW
Daruk Aboriginal Medical Service, Mount Druitt NSW
Tharawal Aboriginal Medical Service, Campbelltown NSW
South Coast Aboriginal Medical Service, Nowra NSW
Townsville Aboriginal Medical Service, Townsville NSW
Walgett Aboriginal Medical Service, Walgett NSW

Aboriginal Organisations
Aboriginal Dance Theatre, Redfern NSW
Aboriginal Hostel, Darlinghurst NSW
Aboriginal Legal Service, Redfern NSW
Aboriginal and Torres Strait Islander Commission, Dubbo NSW
Australian Institute of Aboriginal and Torres Strait Islander Studies, Canberra ACT
Gullama Aboriginal Services Centre, Alexandria NSW
Police Koori Network, Liverpool NSW
South Coast Aboriginal Centre, Nowra NSW
South Coast Aboriginal Legal Service, Nowra NSW
Yalga Bimbi Community Development, Cairns QLD

Rehabilitation Counselling

Public Hospitals
Metropolitan
Lidcombe Hospital Brain Injury Unit
Royal Rehabilitation Centre-Sydney, Ryde
Royal North Shore Hospital-Pain Centre
Ryde Hospital and Community Services
Sutherland Hospital
Sydney Hospital-Occupational Health Unit
Westmead Hospital Brain Injuries Unit

Private Hospitals and Nursing Homes
Berkley Vale Private Hospital
Jean Colvin Private Hospital
St Edmonds Private Hospital
Commonwealth Government Departments and Agencies

Commonwealth Rehabilitation Service
Metropolitan Units
Ashfield; Bankstown; Blacktown; Darlinghurst; Fairfield; Granville; Granville Vocational Unit; Hurstville; Liverpool; Maroubra; Mt Druitt; Parramatta; Penrith; Richmond; Rockdale

Country/Interstate
University Ave. Canberra; Belconnen, ACT; Coffs Harbour; Orange; Newcastle; Southport, Qld; Tamworth

Department of Defence - Occ Health & Rehabilitation
Department of Social Security - Work Environment Unit, Sydney Central Vocational Guidance Office, Bankstown Worksafe Australia, Camperdown

State Government Departments and Agencies
Adult Migrant English Service at Cabramatta; Campsie; Fairfield; Kogarah; Parramatta
Educational Counselling Unit:
TAFE Colleges; Brookvale; Mt Druitt; Padstow; St George

Department of Community Services
Adult Education Centre, Bexley North; Laurel House, Parramatta; Mt Druitt District Office; Seven Hills District Office

Department of Courts Administration
Silverwater Correctional Centre

Department of Health
Herbert St Clinic, Drug & Alcohol Service; Hornsby Drug & Alcohol Service; Langton Clinic Drug and Alcohol Service; Manly Phoenix Unit; Ryde Community Health Centre; Sydney Sexual Health Centre; Wahroonga Mental Health Rehabilitation Service; Windana Mental Health, Manly; Wistaria House Drug and Alcohol Program; School of Communion Disorders, Sydney University; Workcover Authority of NSW; Windana, Mental Health, Manly

Community Agencies and Private Organisations
Albion St Clinic, Surrey Hills Australian Council of Churches Australian Quadriplegic Association Autistic Association of NSW A Women's Place, Potts Point BHP Port Kembla Breakthrough Personnel, Wentworthville C.A.R.E. Nautilus, Croydon C.M.S. Rehabilitation Management Services Careforce Family Support Service, Liverpool Centacare - Direct Employment, Fairfield Centacare - Direct Employment, Sutherland Centacare - Respite, Fairfield Deaf Society of NSW Eastern Suburbs Learning Centre HADPAC, Castle Hill HEADWAY, Bankstown HEADWAY, TAS.

Other Organisations
Overseas

Clinical Education (Fieldwork/Professional Experience) 15 - 5
SCHOOL OF HEALTH INFORMATION MANAGEMENT

The School of Health Information Management acknowledges the cooperation and support of the following institutions in the School's Professional Experience Program.

Public Hospitals

Metropolitan
Auburn District
Balmain
Bankstown
Blacktown District
Campbelltown
Canterbury
Cumberland, Parramatta
Children's Hospital, Camperdown
Fairfield District
Gladesville/Macquarie
Hawkesbury, Windsor
Hornsby Ku-Ring-Gai Hospital & Area Health Service
Institute of Oncology and Radiotherapy,
  Prince of Wales Hospital
Lidcombe
Liverpool
Manly Hospital & Community Health Services
Mona Vale
Mt Druitt
Nepean Hospital Penrith
Prince Henry, Little Bay
Prince of Wales, Randwick
Royal Hospital for Women, Paddington
Royal North Shore, St Leonards
Royal Prince Alfred, Camperdown
Royal Ryde Rehabilitation
Royal South Sydney
Rozelle, Leichhardt
Ryde Hospital & Ryde-Hunters Hill Area
  Health Service
St George, Kogarah
St Margaret’s, Darlinghurst
St Vincent’s, Darlinghurst
Sutherland Hospital Caringbah
Sydney
Westmead
Repatriation General Hospital, Concord
Lady Davidson, Turramura
Prince of Wales Children's, Randwick
St. Joseph's, Auburn
St. John of God, Burwood
Sydney Eye, Sydney
Masonic, Ashfield
Rachel Forster, Redfern

Country/Interstate

Bathurst District
Central Coast
Coffs Harbour and District Hospital
Dubbo Base
Forbes District
John Hunter, Newcastle
Lithgow
Lismore Base

Manning Base, Taree
Orange Base
Parkes
Queen Elizabeth, Woodville, SA
Woden Valley, Canberra
Royal Darwin
Royal Newcastle
Wollongong
Young District Hospital
    and Community Health Services
Bowral
Camden
Cooma District
Royal Women's, Brisbane
Mater Public, Brisbane

Overseas

Hospital Authority, Hong Kong
Green Lane National Womens Hospital,
  Auckland NZ
Kelowna General Hospital, Canada
St. Francis Community Hospital, Seattle, USA
UCLA Medical Center, Los Angeles

Private Hospitals and Nursing Homes

HCA Baulkham Hills Private
St Vincent's Private, Darlinghurst
Sydney Adventist, Wahroonga
The Polpars, Epping
Mater, Crowns Nest
Newcastle Mater, Warata
Hurstville Community Cooperative, Hurstville
Strathfield Private
St. Margaret's Private, Darlinghurst
The Scottish Hospital, Paddington

Commonwealth / State Government
Departments and Agencies

Central Coast Area Health Service, Gosford
Central Sydney Health Service, Camperdown
Central West Regional Office, Peak Hill
Cumberland Developmental Disability Service
Department of Health (NSW), Health Statistics Unit
Hunter Area Health Service, Newcastle
North Coast Regional Office, Lismore
Northern Sydney Area Health Service, St Leonards
Orana & Far West Regional Office, Dubbo
South East Regional Office, Goulburn
South West Regional Office, Wagga
Central Cancer Registry
Department of Defence, Canberra
Department of Community & Health Services, Hobart
National Coding Centre, Lidecombe

Other Organisations

Deloites, Touche, Tohmatsu
Pacific Power
NHMRC Clinical Trials Centre,
  The University of Sydney
NRMA Insurance
VeterinaryTeachingHospital, The University of Sydney
3M Health Care Group
SCHOOL OF MEDICAL RADIATION TECHNOLOGY

The School of Medical Radiation Technology would like to recognise the following clinical centres for their invaluable assistance in the clinical education program.

Diagnostic Radiography

Public Hospitals

Metropolitan
- Auburn District
- Bankstown
- Blacktown District
- Camden
- Campbelltown
- Canterbury
- Concord Hospital
- Fairfield District
- Hawkesbury
- Hornsby Ku-Ring-Gai Hospital & Area Health Service
- Lidcombe
- Liverpool
- Manly Hospital & Community Health Services
- Mona Vale Hospital & Community Health Service
- Mt Druitt
- Nepean Hospital, Penrith
- Prince Henry, Little Bay
- Prince of Wales Children's, Randwick
- Royal Alexandra Hospital for Children, Camperdown
- Royal North Shore
- Royal Prince Alfred, Camperdown
- Royal South Sydney
- Ryde Hospital & Community Health Service
- St George, Kogarah
- St Vincent's, Darlinghurst
- Sutherland Hospital, Caringbah
- Sydney
- Westmead

Public Hospitals

Country/Interstate
- Bathurst District
- Dubbo Base
- Gosford District
- John Hunter, Newcastle
- Lismore Base
- Orange Base
- Tamworth Base
- Wodonga, ACT
- Wollongong

Private Practices and Private Hospitals

Ashfield Medical Imaging
- Auburn Diagnostic centre
- Bankstown Day Surgery and Specialist Centre
- Bankstown X-ray and Ultrasound
- Baulkham Hills Private Hospital
- Blacktown Diagnostic Centre
- Calvary Hospital, Bruce ACT
- Campbelltown X-ray, Campbelltown
- Campsie X-ray and Ultrasound
- Caringbah CT and X-ray
- Castlereagh Radiology, Penrith
- Chatswood X-ray
- Dee Why X-ray and CT
- Dr's Whistler and Lee, Nowra
- Fairfield X-ray
- Gosford Radiology
- Hurstville X-ray and Ultrasound
- Ulawarra Radiology
- North Coast Radiology, Lismore
- North Shore Radiology
- Orana Radiology, Dubbo
- Parramatta Imaging
- Penrith Radiology
- Randwick Imaging
- Rayscan Imaging, Liverpool
- RPAH Medical Centre, Camperdown
- Ryde Medical Centre
- St George Imaging, Kogarah
- St Vincent's Private Hospital
- Sutherland Imaging Centre
- Sydney Adventist Hospital
- Ultrascan, Liverpool
- Ultrascan, Penrith
- Wentworthville Diagnostic Centre
- Westmead Specialist Medical Centre

Nuclear Medicine Technology

Public Hospitals

Metropolitan
- Hornsby Ku-Ring-Gai Hospital & Area Health Service
- Lidcombe
- Liverpool
- Prince of Wales, Randwick
- RGH, Concord
- Royal Alexandra Hospital for Children, Camperdown
- Royal Prince Alfred, Camperdown
- Royal North Shore
- St George, Kogarah
- St Vincent's, Darlinghurst
- Westmead

Public Hospitals

Country/Interstate
- Ulawarra Hospital, Wollongong
- John Hunter, Newcastle
- Launceston General
- Orange Base
- Royal Brisbane
- Royal Perth
- Sir Charles Gairdner, Perth
- Wodonga, ACT

Private Practices and Private Hospitals

Allamander Private Hospital
- Ashley Centre, Westmead
- Blacktown Nuclear Imaging
- Burwood Nuclear Medicine
- Castlereagh Radiology
- Central Coast Nuclear Medicine, Gosford
- Dee Why Nuclear Medicine
School of Occupational Therapy

The School of Occupational Therapy wishes to acknowledge the following agencies for their valuable contribution to the 1994 Fieldwork Program for its students in the Associate Diploma of Applied Science (Diversional Therapy) and the Bachelor of Applied Science (Occupational Therapy).

Public Hospitals

Metropolitan
Auburn
Balmain
Blacktown District
Canterbury
Cumberland Hospital
Concord Hospital
Fairfield District
Glebe
Governor Phillip Special Hospital
Home of Peace, Eversleigh

Home of Peace, Greenwich
Hornsby Ku-Ring-Gai Hospital and Area
Health Service
John Williams Therapy Centre
Lady Davidson, North Turramurra
Lidcombe
Liverpool
Lottie Stewart, Dundas
Gladesville, Macquarie Hospital
Marsden Hospital
Manly Hospital and Community Health Service
Mona Vale Hospital and Warringah Area
Health Service
Mt Druitt
Nepean Hospital, Penrith
Prince Henry, Little Bay
Prince of Wales, Randwick
Rachel Foster, Redfern
Royal Alexandra Hospital for Children, Camperdown
Royal North Shore, St Leonards
Royal Prince Alfred, Camperdown
Royal Rehabilitation Centre, Sydney
Rozelle
Ryde Hospital and Ryde-Hunters Hill Area
Health Service
St George Sared Heart Hospice
St Joseph’s Auburn
St. Vincent’s, Darlinghurst
Sutherland Hospital
Sydney, Macquarie Street
War Memorial, Waverley
Westmead

Country/Interstate
Albury Base
Ballina
Bathurst District
Bellingen River and District
Belmont District
Blue Mountains District Memorial
Bowral and District
Broken Hill Base
Calvary Hospital
Camden District
Campbelltown
Cessnock
Coffs Harbour and District
Coley Hill and District
Cooma Base
Cootamundra
Cowra District
Darwin
Dubbo Base
Forbes District
Gunnedah District
Hastings District Hospital and Community Health Centre
Ulmarra Regional Hospital (Port Kembla Campus)
Ulmarra Regional Hospital (Wollongong Campus)
James Fletcher Hospital, Newcastle
John Hunter, Hospital
Kempsey District
Kiama District

Private Practices and Private Hospitals

Sydney Radiotherapy & Oncology Centre, Crows Nest

SCHOOL OF OCCUPATIONAL THERAPY
<table>
<thead>
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<th>Kurri Kurri</th>
<th>Launceston General</th>
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<td>Mercy Hospital, Albury</td>
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<tr>
<td>Shell Harbour, Mt Warrigal</td>
<td>Shoalhaven District Memorial, Nowra</td>
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<tr>
<td>Shoalhaven District Memorial, Nowra</td>
<td>St Vincents, Lismore</td>
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<tr>
<td>Tamworth Base</td>
<td>The Campbell Hospital</td>
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<tr>
<td>The Campbell Hospital</td>
<td>Toowomba General, Queensland</td>
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<td>Toowomba General, Queensland</td>
<td>Townsville General, Queensland</td>
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<tr>
<td>Tweed Heads District Hospital &amp; Health Services</td>
<td>Tweed Heads District Hospital &amp; Health Services</td>
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<tr>
<td>Tumut Hospital</td>
<td>Wagga Wagga Base</td>
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<tr>
<td>Wagga Wagga Base</td>
<td>Woden Valley Hospital</td>
</tr>
</tbody>
</table>

**Private Hospitals and Nursing Homes**
Aldersgate House Nursing Home, Leichhardt
Allowah Babies, Dundas
Alwyn Rehabilitation, Strathfield
Anna Maria Nursing Home, Putney
Armon Nursing Home, Petersham
Beecroft Convalescent Home
Berkley Vale Private Hospital
Bethany Nursing Home, Eastwood
Bethal Nursing Home, Ashfield
Bossley Park Nursing Home
Calvary Hospital ACT (Lnc)
Canley Vale Nursing Home
Carrington Centennial Hospital for Chatswood Community Nursing Home
Convalescents, Camden
Dorothy Henderson Lodge, Marsfield
Ewinglassie Retirement Village, Emu Plains
Endeavour Nursing Home, Springwood
Ethel Forrest Centre, Wagga Wagga
Evesham Clinic, Cremorne
Fairfield Nursing Home
Frank Vickery Village, Sylvania
Frank Whiddon Masonic Homes, Glenfield
Garrawarra Hospital, Waterfall
Gertrude Abbott Nursing Home, Surry Hills
James Milson Nursing Home, North Sydney
Kilbride Nursing Home, Campbelltown
Lawrence Hargrave, Thirroul
Leisure World Nursing Moonby House Nursing Home, Peakhurst
Mount Wilga, Hornsby
Myrtle Cottage for Disabled Persons, Ingleburn
Neringah Hospital, Wairoonga
Northaven Retirement Village, Turramurra
Our Lady of Consolation, Rooty Hill
Parkdale Nursing Home, Waverley
Princess Juliana Lodge
RSL Veterans’ Village
Sans Souci Retirement Hostel
Sarah Claydon Retirement Village, Milton
Shalom Hostel and Nursing Home for Aged, Marsfield
Southern Cross Homes, Merrylands
St Joachim’s Nursing Home, Lidcombe
St John of God, Burwood
The Palms Nursing Home, Kirrawee
Trentham Nursing Home, Willoughby
Wade-Lyn Nursing Home, Hurstville
Wesley Gardens Retirement Village, Belrose
Wesley, Ashfield
Yallambi Nursing Home for Aged Ladies, Carlingford
Young Retirement Village

**Commonwealth Government Departments and Agencies**
Commonwealth Rehabilitation Service

**Government Departments and Agencies**
Auburn Aged Day Care Centre, Auburn
Aged Community Service Team
Adult Training Centre, Albury
Banks House
Bankstown Department of Community Services
Bankstown Support and Leisure Programme
Banksia House
Bathurst Rehabilitation Centre
Belconnen Health Centre, ACT
Blacktown/Mt Druitt Area Health Service
Bondi Junction Community Health Centre
Bonnyrigg Community Learning Centre
Brookvale Living Skills Centre
Brunswick-Byron Area Health Service
Buckingham House, Surry Hills
BuUi Community Health Centre
Bundara Psychiatric Rehabilitation Service
Canterbury Area Health Service
Caringbah Community Health Centre
Centacare Early Intervention Team
Central Coast Area Health Centre
Chalmers Rd Public School, Strathfield
Chatswood Day Centre
Chatswood Living Skills Centre
Chesalon Barrenjoey Day Care Centre
Chester Hill Neighbourhood Centre
Child Health and Development Service, ACT
Community Rehabilitation and Geriatric Service, Kogarah
Condell Park Residential Service
Crisis Assessment and Treatment Team, Newcastle
Croydon Community Rehabilitation Service
Croydon Living Skills Centre
Department of Aged Care, Sutherland
Department of Community Services, Armidale
Department of Community Services, Bathurst
Department of Community Services, Bexley
Department of Community Services, Charlestown
Department of Community Services, Dubbo
Department of Community Services, Maitland
Department of Community Services, Newcastle
Department of Community Services, North Parramatta
Department of Community Services, Orange
Department of Community Services, Tamworth
Department of Community Services, Taree
Department of Developmental Disability Service, Kogarah
Dickson Day Centre, ACT
Dixon Unit Geriatric and Rehabilitation Unit, Ryde
Ellamatta Lodge, Mosman
Extended Care, Orange
Fairfield Living Skills
Forrest Centre, Wagga
Geriatric Assessment Services
Glebe Community Care Centre
Gosford Aged Day Care
Greenhouse Living Skills Centre
Guildford Community Centre
Hills Community Health Centre, Castle Hill
Holroyd Disabilities Service
Holroyd School for Specific Purposes
Hunter Equipment Service
Kalinda Living Skills
Joint Coal Board
Lane Cove Community Aid
Laurel House, Parramatta
Lismore Living Skills Centre
Liverpool Department of Community Services
Liverpool Living Skills
Maneen House Living Skills Centre, Mangerton
Manly-Warringah Developmental Disability Service
Mobile Community Management Team
Moruya Community Health
Mosman Day Care Centre
Mt Druitt Community Health Service
Nelson Bay Community Health
NSW Department of Sport, Recreation and Racing
Orana Community Health Centre, Dubbo
Parramatta Neighbour Aid
Penrith Living Skills Centre
Redfern Community Health Centre
Rehabilitation Module, Marrickville
Rivendell Adolescent Unit and School, Concord
Ryde Hospital Community Service
South Western Sydney Area Health Service
St George Living Skills
St George School, Rockdale
Stuart Centre
Sutherland Community Rehabilitation Team
Sutherland Living Skill, Sutherland
Taree Community Health
The Hills District School for Special Purposes, Northmead
Tuggeranong Seniors Centre
Wallsend Community Health Centre
Wangaratta City Council, Aged and Disability Services
Waratah Nepean Developmental Disability Service
Waratah Orthopaedic School
Water Board
Western Area Adolescent Team
Wicks Living Skills Centre

Community Agencies and Private Organisations
Alice Betteridge School
Birdwood Road Day Care Centre, Georges Hall
Canberra O.T. Services
Deaf Society of N.S.W.
Sylvanvale
Hand in Hand, Waitara
Headway Adult Developmental Program, Bankstown
Hekingston House Day Care, Auburn
Independent Living Centre
Kids Activity Centre, Mt Druitt
Lisa Casthe and Assoc, ACT
McQuoin Park Day Care Centre, Waitara
Marsh Occupational Health
Multiple Sclerosis Society of NSW, Lidcombe
Northcott Equipment Services
Pecky's Playground, Prospect
Stanbridge, White & Assoc Wagga
Royal Blind Society of NSW
Royal Far West Childrens Health Scheme, Manly
Spastic Centre of NSW
Therapy Centre, Bexley

SCHOOL OF ORTHOPTICS
The School of Orthoptics acknowledges the following for their support in the School's Clinical Education Program.

Public Hospitals
Metropolitan
Bankstown
Blacktown
Concord Repatriation General
Greenwich
Lidcombe
Liverpool
Prince of Wales, Randwick
Royal Alexandra Hospital for Children, Camperdown
Ryde Rehabilitation & Geriatric Service
St George, Kogarah
St Vincent's, Darlinghurst
Sydney Eye, Woolloomooloo
Westmead

Country/Interstate
Adelaide Medical Centre for Women & Children
Gosford District
Princess Alexandra, Woolloongabba
Repatriation & General, Daw Park, Adelaide
Repatriation & General, Greenslopes, Brisbane
Royal Adelaide
Royal Brisbane
Royal Hobart
Wagga Wagga

Overseas
Auckland, New Zealand
Singapore National Eye Centre
Texas Children's Hospital, USA
Wellington, New Zealand

Private Hospitals and Nursing Homes
Chandos, Ashfield

State Government Departments and Agencies
Community Health Centres:
- Auburn, Chatswood Assessment, Liverpool,
- Mt Druitt, Baulkham Hills, Richmond,
- Kingswood, Hornsby Child & Family Health, Yagoona
South Australian Health Commission, Flinders Medical Centre, Bedford Park
Western Sydney Developmental Disability Service, Marsden Campus

Community Agencies and Private Organisations
Alice Betteridge School
Optical Prescriptions Spectacle Makers Pty Ltd, Contact Lenses, Sydney
Royal Blind Society of NSW - Enfield, Newcastle & Canberra
Royal Guide Dog Association of Australia, Milson's Point
Royal Far West Children's Health Scheme, Manly Spastic Centre, Ryde

Private Practitioners

Private Practices
S Brunner
J Cumines
PElmurr
A Macfarlane
G Stead
S Sutton
D Taylor
R WoodhillU

Private Sponsored Practices
M Awad, Y Makdissi - Dr S Franks
Dr Atkins
Dr C Barnes
Dr P Beaumont
N Braaksma - Dr A Hunyor
K Bourne - Dr F Martin
P Britz - Drs M Manku, C Joneshart, W Porter
Dr J Corboy, Hawaii
M Craymer, T Hoy - Dr G Schiller
B Dennison - M Strathdee
Dr D Durkin
S Egan - Dr R Armstrong
JEllery-DrKChatfield
D Ferguson - Dr K Frumar

Dr G Gole
K Goodacre - Dr R Williams
DrMHaUey
Drs S Heery & G Howsam
C Hewett, A McKie - J Lloyd & P Hewitt
Dr R Higgins
R Hukka - Dr C Challinor
B Jennings, W Holland & P Hellsing -
- Drs L Shanahan & L Dunlop
L Jones - Dr D Moran
R Kay - Drs J Peters, J Dickson & C Thomas
K Keirnicky, K Pallett - Dr T Keldoulis
K Kuu - Dr S Hing
R Lang - Drs C Baker, W Barnett & Moore
Dr J La Nauze
T Levery, L Diep - Dr P Stewart
Drs G Lillicrap & M Moon
S McCormack - Drs M Kearns & R Smith
V Mercer - Drs D Sharota & L Dinihan
V Mercer - Dr Chara
S Merrington, A Tipp - Drs Henry, Temple, Harding & Fitzsimmons
Dr G Moore
Dr J Morey
G Morrow, J Tredinnick - Dr J Elder
Dr W Muntz
N Nada, H Otay, A Mayo - Drs A Farnelli & P Bollinger
K Panos - Dr J Gregory-Roberts
A Petrovic - Dr E Gregory
L Priest - Drs P Martin & I Kennedy
A Pryke, K Tattersall - Dr M Simpson
M Raco - Dr J Chandra
J Richardson - Dr I Francis
L Rodkin - Gibb & Beeman, Optometrists
M Ryan - Dr M Jacobs
K Shanahan - Dr D Swan
P Toogood - Dr M Silva
K Towart - Cooney - Dr I Kennedy
G van Beveren - Dr S Saunders
K Whitney - Drs M Tester, M Noble & S Kerkenezov
N Willsher - Drs J Goldberg & G Cohn
N Willsher - Dr P Martin
R Woodhill, D Taylor - Drs S Dethlefs,
- A Vernon & I Grice
L Wilcox - Dr L Wards
J Yap - Dr P Cohen

SCHOOL OF PHYSIOTHERAPY
The School of Physiotherapy wishes to acknowledge the vital function performed by physiotherapists who undertake the clinical education of its undergraduate students. These Clinical Educators are located in clinical units in New South Wales and interstate.

Public Hospitals
Metropolitan
Auburn District
Balmain
Bankstown-Lidcombe
Blacktown District
Campbelltown
Canterbury
Concord Repatriation General  
Fairfield District  
Greenwich  
Hornsby Kuring-Gai Hospital & Area Health Service  
Lady Davidson, North Turramurra  
Liverpool  
Manly Hospital & Community Health Service  
Mt Druitt  
Prince Henry, Little Bay  
Prince of Wales, Randwick  
Rachel Forster, Redfern  
Royal Alexandra Hospital for Children, Camperdown  
Royal Hospital for Women, Paddington  
Royal North Shore, St Leonards  
Royal Prince Alfred, Camperdown  
St George, Kogarah  
St Joseph's Auburn  
St Vincent's, Darlinghurst  
Sutherland Hospital, Caringbah  
Sydney  
War Memorial, Waverley  
Westmead

Country/Interstate
Albury Base  
Armidale and New England  
Bathurst Base  
Bulli District  
Coffs Harbour and District  
Coledale District  
Condobolin District  
Cooma Base  
Dubbo Base  
Gold Coast Hospital  
Gosford District  
Goulburn Base  
Griffith Base  
"Homeleigh" Wollongong Community Rehabilitation Centre  
niawarra Regional Hospital  
(Wollongong and Port Kembla Campuses)  
Kempsey  
Lismore  
Lithgow  
Maitland  
Manning Base  
Mater Misericordiae, Newcastle  
Mercy Care Centre, Young  
Mudgee District  
Nepean  
Orange Base  
Parkes  
Port Macquarie & Hastings District  
Rankin Park  
Repatriation General, Hobart  
Royal Newcastle  
Shoalhaven District Memorial, Nowra  
St Vincent’s, Lismore  
Tamworth Base  
Wagga Wagga Base  
Woden Valley  
Woy Woy  
Wyalong District  
Wyong District

Private Hospitals and Nursing Homes
Mt. Wilga Private Hospital  
Sacred Heart Hospice  
Sydney Adventist Hospital

Commonwealth Government Departments and Agencies
ACT Community and Health Department  
(Infant and Child Services)  
Australian Institute of Sport (ACT)  
Belconnen Health Centre (ACT)  
Commonwealth Rehabilitation Service  
H.M.A.S. Penguin

State Government Department and Agencies
Department of Community Services  
John Williams Therapy Centre, Mandala, Bexley  
Ulawarra, Yalbillinga (Coffs Harbour)

Community Agencies and Private Organisations
Anglican Retirement Villages (MOWLL)  
Cumberland Health & Research Centre  
Merrylands Community Health Centre  
Multiple Sclerosis Society of NSW (Lidcombe)  
Royal Far West Children's Health Scheme (Manly)  
Spastic Centre (Ryde, Allambie Heights)

Private Practitioners
Jenny Aiken  
Albert Alonso  
Ian Austin  
Sue Cockroft & Melinda Johnson  
Maria De Sousa & Heather Marr-Wyllie  
Gary Eastburn  
Gillian Forster & Joel Werman  
Judith Furey  
Beverley Giovannielli & Kenneth Raupach  
Julie Godfrey  
Suzanne Jones & Ashton Lucas  
Peter Knapman  
Lee Jensen  
Sue Lovelock  
Gae Milazzo  
Amanda Mussett  
Louise O'Connor & Roger Fitzgerald  
Grant Pleffer  
Neil Potter  
Jeff Pross  
Rosemary Prosser  
Phillip Richardson  
John Roberts  
Greg Sheather  
Elizabeth Steet & Mark Bevan  
Colin Thompson  
Lisa Tomlinson-Alonso  
Margaret Turner  
Gordon Waddington  
Hilary Waldman  
Sandra Walker  
Stuart Waters  
David Young
Course Enquiries and Applications

Student Services Division (Cumberland)

Student Services Division (Cumberland), which is located in the Jeffrey Miller Administration Building, provides intending applicants, both local and overseas, with information and advice on the various courses offered by the Faculty, as well as associated matters of admission and enrolment. Enquiries can be made Monday - Friday between 9 a.m. to 5 p.m. The postal address is:

Student Services Division (Cumberland)
The University of Sydney
P.O. Box 170 Lidcombe, NSW 2141
Telephone (02) 646-6625

Undergraduate Course Applications

Applications for the following Faculty undergraduate courses are processed by the Universities Admissions Centre (UAC):

**Bachelor of Applied Science**
- Diversional Therapy
- Health Information Management
- Medical Radiation Technology
- Occupational Therapy
- Orthoptics
- Physiotherapy
- Speech Pathology

**Bachelor of Health Science**
- Aboriginal Health
  and Community Development
- Rehabilitation Counselling

UAC application forms and Student Information Guides are available in August each year:
- for New South Wales Higher School Certificate students, from schools;
- for ALL other undergraduate applicants, from the Universities Admissions Centre

Postal Address:
UAC, Locked Bag 500
Lidcombe, NSW 2141
Telephone (02) 330-7200

All Other Course Applications

Information and application forms for non-UAC undergraduate, conversion, graduate diploma, Master's degree and doctoral courses in the Faculty are available from Student Services Division. Completed applications must be lodged by the advertised closing date at Student Services Division.

For further information on Master's degree applications, see Chapter 4; on Doctoral applications, see the University of Sydney Calendar.

Closing Dates

It is essential that the closing dates for lodgment of applications are adhered to, and intending students should pay close attention to the course advertisements which appear from time to time in the press and in particular careers supplements.

Late applications may be considered. Late eligible applicants may be placed on a reserve list.

Further Information

Career Market Days, Tertiary Information Days, Course Information Seminars and Open Days are frequently held. For details, phone the University on (02) 646-6629.

Graduate Students

Detailed application procedures are set out in Chapter 4.

Deferment of Enrolment for 1 Year by First Year Students

A person granted admission to an undergraduate course of the University and who undertook at least 10 units of the N.S.W. Higher School Certificate, or its equivalent, in the preceding year, may be permitted to defer for a maximum period of one year.

Deferment of enrolment will not normally be granted to enable an applicant to undertake another tertiary course except where that course has a direct bearing on the deferred course.

All other applicants may not be permitted to defer enrolment unless there have been extreme and unpredictable changes in circumstances.

Applications for deferment must be lodged in writing by the advertised closing date with the Director, Student Services (Cumberland).

Full-fee paying overseas students may be permitted to defer enrolment. Written applications must be lodged with the International Education Office.

Registration and Enrolment

Status of Students

A student shall be deemed to be a registered student of the University from the time of first enrolment, until the student

a) has completed the course; or
b) has discontinued studies; or
c) has been excluded from the course and/or the University; or
d) is deemed to have abandoned the course.
Completion of enrolment will include submission and subsequent acceptance of matters outstanding at the time of receipt of a signed enrolment form. Such matters may include orthoptic eye tests, evidence of meeting course admission prerequisites and any other items.

Registered students are required to enrol at the start of each year or semester as determined by the Director, Student Services (Cumberland).

Students who do not formally discontinue may be deemed to have abandoned their course if they fail to complete enrolment by 30 March of a continuing year.

Non-Award Enrolment
Notwithstanding the provisions of any other By-law, a Faculty, Board of Studies or Graduate School may, in circumstances approved by that Faculty, Board of Studies or Graduate School, permit any person to enrol as a non-Award student in a specified course or subject/s with which the Faculty, Board of Studies or Graduate School is concerned.

The Academic Board may, on the recommendation of a Faculty, Board of Studies or Graduate School, from time to time prescribe

a) subjects which, if completed by a person enrolled as a non-Award student, may be counted towards a degree in that Faculty, Board of Studies or Graduate School; and

b) the circumstances under which any such subjects may be counted.

Study as a non-Award student may be taken into account on subsequent enrolment in an award course.

Eligibility Criteria
Heads of School/Department may approve the non-Award enrolment of an applicant in a subject offered by their School/Department providing the applicant has the required pre-requisite knowledge to study the subject and there are sufficient resources to accommodate the applicant.

Fees
All non-Award enrolments are to be charged on the basis of a fixed fee ($12,750 for 1994) for a full-time load, multiplied by the weight of the individual subject in the degree offered by the Faculty.

Miscellaneous Enrolment
Provision is made in the Faculty for students to undertake study in subjects which form part of award courses. Study as a miscellaneous student will not be taken into account on subsequent enrolment in an award course in the University of Sydney.

Miscellaneous students will be required to pay the prescribed fees (minimum $6.00 per hour in 1994) for this mode of study. An application to enrol as a miscellaneous student is made to the Continuing Professional Education and Conference Unit. Approval is then sought from the Head of School/Department.

Miscellaneous students' results will not be formally presented but a certificate of successful completion will be given on completion of that subject.

Application forms are available from Continuing Professional Education and Conference Unit.

Cross-Institutional Enrolment
Students enrolled in a recognised tertiary course at another institution will be permitted to enrol in any subject in degree and diploma courses in the Faculty of Health Sciences, providing the subject is approved by the home institution, the applicant satisfies the pre-requisite knowledge to study the subject and resources are available to support the enrolment in the subject.

The decision to offer a cross-institutional enrolment will be endorsed by the Faculty Undergraduate/Graduate Studies Committee on the recommendation of the Head of School, on advice of Course and Area Co-ordinators.

Fees
HECS charges apply.

Enrolment of New Students
Enrolment of new students in a course entails...

a) completion of an Enrolment form attesting the subjects in which the student will be enrolled in the first year of the course;

b) completion of such forms for statistical purposes as required by the Department of Employment, Education and Training, and any other government agency;

c) completion of a form to indicate mode of payment of the Higher Education Contribution;

d) completion of such other forms as required by the Faculty or University;

e) payment of compulsory and other fees in relation to study at the University including Students' Union Fees;

f) payment of the estimate of the Higher Education Contribution if the "up-front" mode of payment is adopted.

New students accepting places in courses processed by the Universities Admission Centre are required to present themselves at the Cumberland College Campus to commence enrolment on Thursday 2, or Friday, 3 February, 1995, and will be required to complete at least items (a) - (d) above.

New students accepting places in courses for which they applied directly to the Faculty (non-UAC courses) are required to present themselves at the Cumberland College Campus to commence enrolment on Tuesday, 31 January, 1995, and will be required to complete at least items (a) - (d) above.

Students who receive UAC offers in the Final Round are required to present themselves at the Cumberland College Campus to commence enrolment on Tuesday, 14 February, 1995.
A new student who has been offered a place in a course to which entry is restricted and who fails to commence enrolment at the appointed time may lose the place allocated.

The payment of all fees will be by bank deposit through any branch of the National Australia Bank. Compulsory subscriptions and other fees must be paid by Friday, 17 February, 1995 or the enrolment may be cancelled (financial assistance in the form of a loan is available to support the payment of compulsory subscriptions). A fees charges deposit notice for this purpose will be issued at enrolment. The estimate of Higher Education Contribution, if the "up-front" mode of payment is adopted, must be paid by Friday, 17 March, 1995. A statement of enrolment and another fees charges deposit notice will be issued by the end of February for this purpose. Late payments will not be accepted. Failure to pay by this date will result in the "up-front" payer's enrolment being cancelled on 31 March, 1995, unless the payment option is altered to "defer-to-tax" by 30 March, 1995.

The last day for new students to commence enrolment is the Friday at the end of Week 2, Semester 1 (i.e. 10 March, 1995). The last day to complete enrolment is Thursday 30 March, 1995. These dates may be varied only with the express approval of the Director, Student Services (Cumberland). Failure to complete enrolment by the above date will be deemed to indicate lack of intention to pursue the offered course and removal of the enrolment record will ensue.

**Re-enrolment of continuing students**

Re-enrolment of continuing students in a course entails...

a) completion of an Enrolment form attesting the subjects in which the student will be enrolled in a year subsequent to the first year of enrolment in the course;

b) completion of such forms for statistical purposes as required by the Department of Employment, Education and Training, and any other government agency;

c) completion of a form to indicate mode of payment of the Higher Education Contribution only if the student is changing mode from that adopted in the immediately preceding semester;

b) completion of such other forms as required by the Faculty or University;

e) payment of compulsory and other fees in relation to study at the University, including Students' Union Fees.

f) payment of the estimate of the Higher Education Contribution, if "up-front" mode of payment is adopted.

Re-enrolment by continuing students will be carried out by mail. At the end of January, 1994, students who have indicated intention to re-enrol and are eligible to continue their course will be sent the documents necessary to re-enrol in their course (items a. to e. above). The payment of all fees will be by Bank deposit through any branch of the National Australia Bank. Compulsory subscriptions and other fees must be paid by Friday, 17 February, 1995 (financial assistance in the form of a loan is available to support the payment of compulsory subscriptions). A fee charges deposit notice for this purpose will be issued in the re-enrolment kit. If these fees are not paid by this date the enrolment may be cancelled. If re-instatement is subsequently requested and approved a $100 re-enrolment fee may apply.

The estimate of Higher Education Contribution, if the "up-front" mode of payment is adopted, must be paid by Friday, 17 March, 1995. A statement of enrolment and another fees charges deposit notice will be issued by the end of February for this purpose. Late payments will not be accepted. Failure to pay by this date will result in the "up-front" payer's enrolment being cancelled on 31 March, 1995 unless the payment option is altered to "defer-to-tax" by 30 March, 1995.

Academic advisers will be available for consultation concerning variations to proposed subjects for enrolment during the first week of February. Completed re-enrolment documents are required at Student Services Division (Cumberland) by Friday, 3 February, 1995.

The last day to complete re-enrolment is Tuesday, 30 March, 1994. The above dates may be varied only with the express approval of the Director, Student Services (Cumberland). Failure to complete enrolment by the above date will be deemed to indicate an intention on the part of students to abandon their course.

**Assisted Students - Enrolment**

Scholarship holders or sponsored students who have not received an enrolment voucher or appropriate letter of authority from their sponsor at the time of enrolment should complete their enrolment and pay their own fees. A refund of fees will be made when the enrolment voucher or letter of authority is subsequently lodged with Student Services Division (Cumberland).

**Student Identity Card**

All registered students are issued with a University identity card. This card must be carried during attendance at the University and shown on official request. The card must be presented when borrowing from the University Libraries and when applying for and using travel concessions.

Any student needing leave from or discontinuing a course must return his/her identity card to the Student Services (Cumberland) as part of the Exit Procedures of the University.

In the event of a student losing his/her identity card a replacement may be issued by the Director, Student Services (Cumberland), on payment of a fee to the Cashier.
Semester 2 Statement of Enrolment
Normally by the last Friday in the mid-year vacation (4 August, 1995) a statement of the expected Semester 2 enrolment pattern and associated estimated amount of Higher Education Contribution will be sent by mail to the semester address of each currently enrolled student.

If the statement is accepted by the student, and the Higher Education Contribution is to be paid "up-front" as it was in the previous semester, then the payment should be made using the accompanying bank deposit form and the statement retained. Payments must be made by Friday, 25 August, 1995. Late payments will not be accepted. Failure to pay by this date will result in the "up-front" payer's enrolment being cancelled on 31 August, 1995 unless the payment option is altered to "defer-to-tax" by 30 August, 1995. If amendments are required to the statement it should be returned to the Student Services Division (Cumberland) by Friday, 25 August, 1995, with an attached letter detailing the expected amendments. Amendments may entail the completion of an "Application for Variation of Course".

Students who do not intend to continue their studies in Semester 2 must FORMALLY WITHDRAW from their course before 30 August, 1995, or they will be charged HECS for Semester 2.

Confirmation of Enrolment
By the last Friday in April (in Semester 1) and September (in Semester 2), all enrolled students should have received a notice outlining the details of their enrolment and providing a record of their Higher Education Contribution for the current semester. Only if amendment to this notice is required should it be returned to Student Services Division (Cumberland) with an attached letter detailing the expected amendments. Amendment may entail the completion of an "Application for Variation of Course". If the detail of the notice is accepted, it should be kept by the student as a record in relation to the Higher Education Contribution for that semester.

Higher Education Contribution Scheme (HECS)
The Australian Government requires most students in higher education courses to contribute to the cost of their education. To be exempt from payment of the contribution a student must:

- be undertaking a postgraduate course for which fees are charged in accordance with Commonwealth guidelines;
- be a fee paying overseas student but not sponsored under a foreign aid program;
- be otherwise subject to the Overseas Student Charge arrangements;
- be a fee paying overseas student sponsored under a foreign aid program;
- be enrolled in a recognised bridging or supplementary course which does not lead to an award;
- be enrolled in a course/place fully funded by an employer;
- enrolled in a recognised non-award course;
- have an Australian post graduate award awarded by the above institution;
- have a HECS teacher exemption scholarship awarded by an education authority.

An annual contribution ($2,409 in 1995) will apply for each year of equivalent full-time study. For part-time students a pro-rata amount will apply according to the actual proportion of the equivalent full-time load being undertaken. The amount calculated at enrolment/re-enrolment is an estimate of the required contribution. The exact amount of the contribution will be calculated as at the census date in each semester (31 March in Semester 1 and 31 August in Semester 2), taking account of any amendments made to the course in which the student is enrolled. A notice of "Confirmation of Enrolment and HECS Liability" will be sent to every enrolled student after the census date in each semester setting out current HECS payment mode, the course load, the amount of contribution required for the semester, the amount paid thus far and the amount still to be paid or any refund due.

Payment of the contribution may be made in two ways (outlined below) and the mode of payment may be varied from semester to semester. New students will be required to make an initial choice of mode of payment when they first enrol and this will be taken to indicate the preferred mode for future payments. Continuing students will be expected to maintain the mode of payment adopted in the immediately preceding semester, although they may apply to vary their mode.

"Up-Front" Payment
This mode permits a student to pay an annual amount equal to 75% ($1807 in 1995) of the estimated full contribution, half before the census date in each semester. The amount must be paid either as a lump sum or in two parts, with the first part being at least 50% of the required payment and the balance paid before the census date.

Students who choose to make their contribution "up-front" and fail to complete the payment by the nominated date, will be required to change their mode of payment to the "deferred" option prior to the census date unless they have elected the "safety-net" provision when completing the payment option. In this circumstance the discount is forfeited.

"Deferred" Payment
This mode permits a student to defer all or part of the full contribution for the semester until the taxable income of the student reaches a minimum threshold level. Choice of this mode requires a student to provide their tax file number at enrolment/re-enrolment. The amount deferred to tax must be either the full contribution or less than 50% of the full contribution depending on how much more than 50% of the full contribution is the amount of part-payment made before the census date.
Fee-Paying Postgraduate Programs
An increasing number of postgraduate coursework programs in the Faculty are moving from a HECS-liaible to a fee-paying status or being introduced as fee-paying programs. Students who enrol in these programs will be levied by semester of enrolment and will be due for payment by the same time as "up-front" HECS payments. The amount of the fee is determined annually and takes account of C.P.I. variations.

Amendments to a course after census date
Amendments made to a course before the census date in a semester will be taken into account in the calculation of a student's required contribution or course fee.

Amendments made after the census date which do not affect the amount of the contribution will cause no action to ensue. Where amendments after the census date decrease the amount of the contribution, no refund of payments nor reduction of the amount will be made - the student's original liability stands. Where amendments after the census date increase the amount of the contribution, the student is required to discharge his or her increased liability on the same basis that the original HECS liability was to be discharged to by either an "up-front" payment or a deferred payment.

Fees and Charges
Students of the University are required to pay the following compulsory fees and charges:

Students Union Fees
Students on the Cumberland campus are required, as a condition of their enrolment, to become members of the Cumberland College of Health Sciences Students' Union. The Senate requires a student in the Faculty of Health Sciences who enrols

a) in an undergraduate Bachelors degree, Diploma or Associate Diploma to be a member of and pay subscriptions to the student body that elects the Students' Representative Council and the Cumberland College of Health Sciences Students' Union or

b) in a degree of Master or Doctor, a postgraduate diploma or a Master's Qualifying program to be a member of and pay subscriptions to the Sydney University Postgraduate Representative Association and the Cumberland College of Health Sciences Students' Union.

Note
a) Exemptions from being a member or paying subscriptions may be granted on certain grounds specified in the University of Sydney Calendar. Students granted exemption on grounds of conscience will have their membership fee transferred to the Jean D. Foley Bursary Fund.

b) Students enrolling for one semester only are to pay half the prescribed fees.

Extension of Time for Payment
Any student who is unable to pay compulsory fees or charges may apply by the due date to the Director, Student Services (Cumberland), for an interest free loan to cover compulsory subscriptions payable on enrolment, this loan is repayable by 30 April.

An extension will normally be granted in respect of payment of Postgraduate course fees or the Higher Education Contribution, where the whole or part of the payment may be deferred to taxation.

Continuing International Students
Fees for Semester 1 must be paid by the last working day in the preceding November. Fees for Semester 2 must be paid by the last working day in April.

Late Applications for Admission to the Faculty
Applications for Universities Admission Centre courses which are submitted after the late closing date are to be submitted to Student Services Division (Cumberland) with a late fee of $60.00.

Late applications for non-UAC courses which are submitted directly to the College are not subject to a late fee.

Failure to Meet Financial Liabilities
Any student who fails to pay prescribed fees or charges or is otherwise indebted to the University and who fails either to make a satisfactory settlement of that indebtedness upon receipt of due notice or receive a special exemption ceases to be entitled to use the University facilities. Such a student may not be permitted to register for a further semester, to attend classes or examinations, or to be granted any official credentials. This disbarment applies if any portion of fees is outstanding at the census date in each semester, that is, 31 March in Semester 1 and 31 August in Semester 2.

Refund of Fees
a) Students who formally discontinue or vary their course of study and consider themselves eligible for a refund of all or part of fees paid to the student organisations, may write to the Secretary of the CCHS Students' Union detailing their case.

b) If following some variation of enrolment, a student becomes eligible for a refund of all or part of an "up-front" Higher Education Contribution, the amount of the refund will be notified in the "Confirmation of Enrolment" notice and the payment made a short time after receipt of the notice.

c) Request for refund of any other fees or contributions should be directed, in writing, to the Director, Student Services (Cumberland) and should detail fully the grounds upon which the request is based.
Credit Transfer

Policies

1. The Faculty of Health Sciences (FHS) has a policy of awarding students maximal credit for prior academic achievements within the following resolutions (2-8).

2. Four forms of credit transfer may be granted:
   a) **Block Credit** for whole stages or years of course. Students are awarded the grade of Advanced Standing (AS) for all subjects credited.
   b) **Specified Credit 1** for whole subject(s) which the student is not required to undertake based on completion of studies which have been deemed equivalent. The student is awarded the grade AS;
   c) **Specific Credit 2** for parts of subjects which the student is not required to undertake based on completion of studies which have been deemed equivalent (previously termed "exemption"). These subjects will attract only a ZP or F final grade. Course Examiners may record a mark with these grades.
   d) **Unspecified Credit** which can be granted when the student has completed similar learning rather than learning which is "deemed equivalent" (see b or c). In this case students are awarded credit points (in unit-structured courses) &/or are granted AS grades in subject(s) or electives.

3. In undergraduate programs of 3 years standard length, a maximum of two thirds credit transfer is permissible.

4. In undergraduate programs of 4 years standard length, a maximum of three quarters credit transfer is permissible.

5. In graduate coursework programs a maximum of two thirds credit transfer is permissible.

6. Where feasible and appropriate "class-action (*)(*) credit transfers into FHS courses will be implemented.

7. The Faculty Handbook will list existing class action credit transfer policies and subjects where challenge examinations are routinely available.

8. Graduate Certificate Programs in the FHS are fee paying courses. Award of a graduate certificate following transfer from a graduate diploma program is conditional upon payment of approved fees.

9. Mechanisms for achieving credit transfer include:
   a) provision of academic records (transcripts) and subject information or alternative information for a judgement on a case-by-case basis,
   b) provision of appropriate evidence related to existing credit transfer class actions,
   c) successful completion of available school/department challenge exams.

10. Credit for prior learning which is of a non-credential nature, may be granted on the recommendation of the head of school or department. This credit may take the form of any of the four forms of credit listed in Resolution 2. Such decisions will be made on a case-by-case basis.

11. Challenge exams provide an opportunity for students to demonstrate that they have achieved the learning goals of a subject prior to enrolling in or completing the subject. Processing of challenge results will be completed at the latest by census dates. Successful completion of a challenge exam will result in a grade of Advanced Standing being awarded for that subject. Challenge exams are not applicable for subjects which the student has previously failed.

12. Eligibility for credit does not guarantee a place in the course in which the credit would be available.

13. Where existing credit transfer statements (eg class actions) exist, such information would be available at the time of enrolment via the Faculty Handbook.

14. The procedures adopted to assess a particular subject/program or range of experiences as the basis for credit in a Faculty subject/program should ensure that the prior learning assessed is comparable in content and standard with the Faculty subject/program in which credit is sought. The standards applied in assessing recognition of credit for prior "informal" learning should not be greater than those required to pass the relevant component of the Faculty program.

15. Procedures for the recognition of credit for prior "informal" learning should ensure that:
   - for recognition of subjects /programs provided by a body other than a university or TAPE, the academic staff carrying out the assessment have a detailed knowledge of the Faculty subject/program in which credit is sought, and
   - for recognition of work and/or life experience, the academic staff carrying out the assessment have, in addition to detailed knowledge of the relevant Faculty subjects/programs, personal expertise in or access to advice on assessment methods appropriate to recognition of prior "informal" learning.

These responsibilities (in 15) are assigned to the Head of School or Department which has the role of investigating the credit transfer application and recommending that credit is granted.

(*) A class action refers to an Advanced Standing agreement based on a circumstance (eg. a qualification or subject completed) which pertains to a "class/group" of people.
Current Practices

1. Schools within the Faculty of Health Sciences
Due to the specified nature of these courses and the limited number of programs of a similar nature in New South Wales and throughout Australia the number of requests for credit transfer based on completion of specific subjects at other Universities is very limited. Therefore a very limited number of class actions (*) for credit transfer have been implemented, and each student's case in relation to School subjects is generally considered on an individual basis in relation to information submitted.

Exceptions:
1. Challenge tests may be used from individual cases to clarify the level of prior learning in the School of Medical Radiation Technology and the School of Health Information Management.

2. Credit transfer class actions exist in relation to:
   a) the Bachelor of Health Sciences (Aboriginal Health and Community Development) from the Associate Diploma in Aboriginal Health and Community Development (The University of Sydney), the Associate Diploma in Aboriginal Health and Community Development (Southern Cross University) and the Bachelor of Applied Science (Aboriginal Community Management and Development) (Curtin University);
   b) the Bachelor of Applied Science (Diversional Therapy) from the Associate Diploma of Applied Science (Diversional Therapy) (The University of Sydney);
   c) the Master of Applied Science (Manipulative Physiotherapy) from graduate diplomas in manipulative physiotherapy awarded by Cumberland College of Health Sciences and The University of Sydney.

2. Departments within the Faculty of Health Sciences
The Departments of Biomedical Sciences and Behavioural Sciences receive many requests for credit transfer (in particular for Specified Credit 1 /Advanced Standing, based upon previous university studies) each year. To provide an effective mechanism for processing these applications:
   a) the Department of Biomedical Sciences will hold challenge examinations for Credit Transfer applicants in 1995 in the following subjects.
      Students applying for Credit Transfer in other subjects would need to submit documentary evidence of prior learning.
      11158 and 11193 Introductory Human Biology
      11161 Body Systems I - PT1
      11167 Biological Sciences IA (Nursing)
      11168 Biological Sciences IB
      11172 Functional Anatomy A
      11173 Functional Anatomy B
      11176 Introductory Human Biology
      11177 Musculoskeletal Anatomy
      11178 and 11191 Introductory Neurobiology
      11179 and 11192 Neurobiology I
      11181 Body Systems I (Orthoptics and CD)
      11286 Body Systems II
      11287 Neurobiology II
      11294 Biological Sciences II
      112A3 Biological Sciences II
      112A4 and 112A5 Biological Sciences 2A
      112A6 Biological Sciences 2B
      112A7 Neurobiology II
      112A8 Body Systems I
      112A9 Biomechanics
      112B1 Introductory Pathology
      112B3 Neurobiology II
      112B5 Pathophysiology
      112B6 Tumor Pathology
      11374 Body Systems III
      11375 Applied Physiology
      11442 Functional Anatomy
      11454 Biological Sciences
      11476 Biological Sciences
   b) the Department of Behavioural Sciences will hold challenge examinations for Credit Transfer applicants in 1995 in the following subjects.
      Students applying for Credit Transfer in other subjects would need to submit documentary evidence of prior learning.
      101B1 Cognitive Functioning
      101B2 Management of Behaviour
      101B6 Cognitive and Developmental Psychology
      102A4 Research Methods and Statistics II
      10288 Social Interaction, Communication and Personality
      10289 Research Methods II
      10397 Health Psychology
      10398 Social Theory and Health
      10457 Health, Medicine and Society

3. Credit Transfer based on TAPE Studies
Due to the specialised nature of the programs offered by the Faculty, there are a limited number of TAFE subjects which could result in Specified Credit 1 (Advanced Standing) into our programs. Individual students may seek Specified Credit 2 (Exemptions) based on prior learning in TAFE programs by directly contacting the Subject Co-ordinator of the relevant subject.

Completion of the following TAFE subjects (as at 1995) may provide evidence to gain Specified Credit 1 or 2. Students seeking credit transfer should contact the Subject Co-ordinator(s) of the relevant subject(s).

(*) A class action refers to an Advanced Standing agreement based on a circumstance (eg. a qualification or subject completed) which pertains to a "class/group" of people.
Faculty Program
Bachelor of Applied Science (Orthoptics)
TAFE program/subject
Advanced Certificate in Optical Dispensing

Faculty Program
Bachelor of Applied Science (Occupational Therapy)
TAFE program/subject
Community Welfare (8749), Child Studies (8932), Child studies, Understanding children (8933), Child studies, child development (8934), Child studies, child management (8935), Working with older people (8742), Safety and occupational health management (8627), Careers access for the deaf and hearing impaired (8976), Working with people with disabilities (6926), Podiatry (6348).

Faculty Program
Bachelor of Applied Science (Diversional Therapy)
TAFE program/subject
Community Welfare (8749), Working with older people (8742), Working with people with disabilities (6926), Visual arts (5418), Recreation and leisure studies (4303), Interior design (5414).

Notes
1. In some cases challenge examinations may be required in addition to the provision of relevant information to support the student's application.
2. In all cases inclusion of courses not mentioned above, students may approach Subject Co-ordinator(s) responsible for the relevant subject(s) to discuss credit for prior learning.

4. Credit for Prior Learning
   Students seeking to gain credit for prior learning which was not recognised by an award (e.g. certificate, degree) may approach the head of school or department or specific subject co-ordinator(s) to discuss this option. In some cases students may be able to sit challenge examinations to demonstrate this learning or may be requested to submit relevant documentation (e.g. record of completion of continuing education programs, publications by the applicant, demonstrated clinical expertise in relation to postgraduate programs). In some cases it may not be realistic or feasible to provide convincing evidence in which case the student would need to continue enrol in the subject(s) in question.

5. Implications of Gaining Credit Transfer
   General:
   1. Gaining Credit Transfer/Advanced Standing in a subject will decrease the student's workload. Note that overall workload may influence eligibility for AUSTUDY/ABSTUDY support.
   2. Having been granted Advanced Standing, the student may wish to seek approval via their Head of School, to enrol in higher stage subjects in their course.
   3. Students gaining Credit Transfer/Advanced Standing are awarded the grade AS which is not included in the calculation of a Grade Point Average (GPA)
   4. Gaining credit (exemptions or advanced standing) could influence the student's marks, either by allowing more time for studying other subjects and improving the marks gained in these subjects, or by gaining an AS grade instead of a (potentially) high mark (based on successful prior learning) which could increase the GPA. Specified Credit 2 (Exemptions) may also influence the mark and grade achievable in the subject and therefore the GPA.

Using the Grade Point Average:
   GPA is the basis for:
   a) entry into Faculty Honours Programs
   b) identifying the award of "Graduation With Distinction"
   c) allocation to a hospital job (via the Allocation Scheme) after graduating from the Bachelor of Applied Science (Physiotherapy).

W.A.M.s for A.P.A.s
   The calculation of Weighted Average Mark (W.A.M.) for the award of Australian Postgraduate Awards (scholarships) for postgraduate study involves consideration of all available marks. Only subjects with marks (i.e. excluding AS and ZP graded subjects) are considered in the calculation. Thus, credit for prior learning may affect the W.A.M.

Procedures
   Details of the process for applying for Credit Transfer are given on the "Application for Credit Transfer" forms available from Student Services Division (Cumberland) in the Administration Building, and from Schools/Departments on the Cumberland campus. Applications should be made on the appropriate form (i.e. the Application for Credit Transfer - School of ..../Behavioural Sciences/Biomedical Sciences), and lodged with the secretary of the Head of School/Department presenting the subject(s). Students should continue to attend classes until the results of their credit transfer application are made available in the School/Department. Formal notification of the award of the grade AS (Advanced Standing) in subjects will occur in the Confirmation of Enrolment (in April) for Semester 1 only and full-year subjects and in the Statement of Enrolment (in August) for Semester 2 only subjects.

Challenge Exams
   Credit transfer in some subjects is to be determined by challenge exams. The application for credit transfer in all these subjects must be lodged with the relevant School/Department presenting the subject by the end of Week 1 of Semester 1. The timetable for challenge exams will be available from the relevant School/Department by the end of Week 1. For Semester 1 only and full-year subjects, challenge exams will be held before the end of Week 3 of Semester 1, and the results
Departments (or their delegates) and other
unless they contain the recommendation(s)/
Authority" to the Director, Student Services

Discontinuation of studies refers to the formal
where these are related to illness or misadventure,

Apply for Leave of Absence, it is often advisable for a
within the School and/or Department, personal and
family issues may also be involved and be equally
important. The Counsellor is available to assist
students in clarifying the reasons why changes in
their academic progress may be necessary, especially
where these are related to illness or misadventure,
and in planning effectively to overcome such
difficulties.

Discontinuation of Studies
Discontinuation of studies refers to the formal abandonment of a course of study after enrolment/re-
enrolment has been completed. Students applying to discontinue their studies must complete an "Application for Discontinuation of Studies" form (available from the Student Enquiries Counter or the various Schools/Departments) and forward it, together with the completed "Exit Authority" to the Director, Student Services (Cumberland). These forms will not be accepted unless they contain the recommendation(s)/endorsement(s) of the appropriate Heads of Schools/Departments (or their delegates) and other Cumberland College campus staff. An incomplete application form will be returned to the student originating it.

For the application to obviate the payment of the Higher Education Contribution, it must be lodged by 30 March in Semester 1 or by 30 August in Semester 2.

To discontinue studies without failure being recorded against enrolled subjects, the application form must be accepted by the following dates:
a) For Semester 1 only subjects, 30 March, 1995;
b) For Semester 2 only subjects and full-year subjects by 30 August, 1995.

Undergraduate students whose applications are accepted by the Faculty in accordance with the above dates will have their records endorsed "DISCONTINUED WITHOUT FAILURE" for each appropriate enrolled subject.

Undergraduate students whose applications are not accepted by the Faculty in accordance with the above dates will have their records endorsed "DISCONTINUED WITH FAILURE" for each appropriate enrolled subject.

If a student discontinues after the above dates and produces appropriate evidence with the application that discontinuation was due to illness or misadventure, the Faculty may deem all subjects to be "DISCONTINUED WITHOUT FAILURE".

Upon discontinuation of studies, some refund of fees may be possible - please refer to the section on Fees and Charges - Refund of Fees.

Students who abandon their course after enrolment/re-enrolment by not formally discontinuing (that is, "dropping-out") will be deemed to have failed all subjects in which they are enrolled and be ineligible for any refund of fees.

To establish the exemption procedure applicable within each School/Department students should consult the relevant academic advisors.

Re-Admission after Discontinuation or Abandonment of Course
Students who discontinue or abandon a course lose their status as registered students of the University. Any subsequent application for re-admission to the course from which they discontinued must be lodged by the advertised closing date. Such an application will be considered with all other applications received that year for that course. Applications for undergraduate courses processed by the Universities Admissions Centre (UAC) close on 30 September. Applications for all other undergraduate and postgraduate courses are processed directly by the Faculty and have varying closing dates between 31 August and 30 September. For more information contact the Student Services Division (Cumberland)

Variation of Course
The variation of course relates to the addition and/or discontinuation of subjects and requires the approval of the Faculty.

Students applying to vary their course must complete an "Application for Variation of Course" form (available from the Student Enquiries Counter or the various School/Department offices) and forward it to the Director, Student Services (Cumberland). The form will not be accepted unless
it contains the recommendation(s) of the appropriate Heads of School/Department (or their delegates). An incomplete application form will be returned to the student originating it.

For the application to apply to the payment of the Higher Education Contribution, it must be lodged by 30 March in Semester 1 or by 30 August in Semester 2. If the addition of any subjects is requested and approved after these dates, the student is required to discharge his or her increased HabiliTy on the same basis that the original HECS liability was to be discharged i.e. by either an "up-front" payment or a deferred payment. If discontinuation of any subject is requested after these dates, no refund of payments nor reduction of deferred HabiliTy will occur.

To discontinue a subject without failure being recorded, the application form must be accepted by the following dates:

a) For Semester 1 only subjects, by 30 March, 1995;
b) For Semester 2 only subjects and full-year subjects, by 30 August, 1995.

Undergraduate students whose applications for discontinuation of subjects are accepted by the Faculty in accordance with the above dates will have their records endorsed "DISCONTINUED WITHOUT FAILURE" for each approved subject.

Undergraduate students whose applications are not accepted by the Faculty in accordance with the above dates will have their records endorsed "DISCONTINUED WITH FAILURE" for each approved subject.

If a student discontinues a subject after the above dates and produces appropriate evidence with the application that discontinuation was due to illness or misadventure, the Faculty may deem the subject to be "DISCONTINUED WITHOUT FAILURE".

Students should re-enrol in discontinued subjects or their equivalent at the next available opportunity.

Leave of Absence

Leave of absence for a specific period may be granted by the Faculty to students in special circumstances. Leave of absence shall not normally exceed one year but, in exceptional circumstances, up to two years may be granted. Leave is normally granted to the commencement of a semester.

Students returning from Leave of Absence will re-enrol in all incomplete required subjects, or their nearest equivalent.

Students applying for leave of absence must complete an "Application for Leave of Absence" form (available from the Student Enquiries Counter or the various School/Department Offices) and forward it to the Director, Student Services (Cumberland). The form will not be accepted unless it contains the recommendation(s) of the appropriate Heads of Schools/Departments (or their delegates) and the completed "Exit Authority". The application must detail the reasons why such leave is sought and documentary evidence in support of the application must be attached to it. An incomplete application form will be returned to the student originating it.

If a student has an application for leave of absence approved to the commencement of Semester 1 of the subsequent year, the student retains the status of a registered student, must enrol in the same or nearest equivalent subjects in Semester 1 of the subsequent year, and will have their record endorsed "DISCONTINUED WITHOUT FAILURE" for each incomplete enrolled subject.

If a student has an application for leave of absence approved to the commencement of Semester 2 of a subsequent year, the student retains the status of a registered student, must enrol in the same or nearest equivalent subjects in Semester 2 of the subsequent year, and will have their record endorsed "DISCONTINUED WITHOUT FAILURE" for each incomplete enrolled subject.

Special Leave

Special leave may be granted by the Director, Student Services (Cumberland), for a period of time during the current year of a student's course. Such leave will be granted only if all studies/assessments can be completed in the current year to the satisfaction of the appropriate School/Departments, otherwise the student should apply for Leave of Absence (see above).

A student seeking Special Leave must apply in writing in the first instance to their appropriate Head of School. The Head of School, after advice from the relevant Departments, will forward the application with a recommendation to the Director, Student Services (Cumberland). Students who are granted Special leave will be regarded as continuing in their currently enrolled subjects.

Examinations and Assessments

General

Assessments may take the form of written examinations, as well as practical and oral assessments. Assessments are conducted throughout the semester, as well as during approved assessment periods. The term "assessment" includes any examination or assessment conducted by the Faculty.

Attendance at Assessments

It is the individual student's responsibility to be available for all assessments, including Post and Deferred Assessments. Students who intend travelling away from Sydney should ensure that they are able to return in time to undertake an assessment at the time and place set down. The time or place for an assessment will not be altered to accommodate students who are unable to attend.

However, in certain circumstances, a student may be permitted to take examinations overseas, generally at a nominated University. These circumstances usually relate to travel for study purposes or for experience directly connected with studies approved by a School or Department. It is the responsibility of the student to obtain the Registrar's approval through the Director, Student Services (Cumberland) before proceeding overseas.
Candidates are required to be present at the correct time and place. Misreading or misunderstanding of the time and/or the location of an assessment will not be accepted as a reason for failure to attend an assessment. Non-attendance on these or any other grounds insufficient to claim illness or misadventure will result in forfeiture of marks associated with the assessment.

Approved Assessment Periods

Approved assessment periods shall include:

- conducted in the traditional Week 15 and 16 assessment period; or
- of the type conducted in Weeks 15 and 16, but which are scheduled in earlier weeks to accommodate clinical placements organised during or over Weeks 15 and 16; or
- any other assessment approved by the Director, Student Services (Cumberland).

All assessments, with the exception of Post/Deferred assessments, are to be conducted by the end of Week 16 of the semester in which a subject terminates.

Assessment Timetables

Provisional and Final Timetables of assessments scheduled in Weeks 15 and 16 of a semester will be displayed on the Official Notice Boards on the Cumberland College Campus.

Candidates are required to notify the Director, Student Services (Cumberland), in writing of any clashes apparent in the provisional timetable. It is the responsibility of the candidates to ascertain the time and place of the examination from the final timetable. Information concerning timetables will not be given by telephone.

Any amendments to the final timetable will be notified on Official Notice Boards on the Cumberland College Campus only.

Rules of Conduct of Written Examinations

Candidates will be admitted to the examination room after one-quarter of the examination writing period has elapsed and will any candidate be permitted to leave the examination room within the first quarter of the examination writing period.

No candidate shall be permitted to leave the examination room during the last ten (10) minutes of the assessment.

No material, except pen, pencil, ink, ruler and eraser may be taken into the examination room, unless instructions to the contrary are given. Candidates should be equipped with a ball point pen, black lead (B) pencils, and an eraser. Other materials, such as notes, books and papers, which may be used for benefit by a candidate, will not be permitted into the examination room, unless instructions to the contrary are given.

Candidates must answer the examination in the booklet or answer sheet provided and should only write answers on the ruled pages of the answer booklet.

No talking is allowed in the examination room.

Should material or information be required the raising of the hand will secure the attention of a supervisor.

A warning will be given ten (10) minutes before the time for the completion of the examination.

When time elapses candidates must immediately cease writing.

The title page of each booklet must be fully completed. The booklets should be handed to the supervisors as directed by the Presiding Officer. No paper, with the exception of the question paper where permitted, may be taken from the examination room.

In the case of an objective test or completion-type test, both the question paper and the answer sheet must remain in the examination room.

Candidates should move away quickly from the exit so that others are not disturbed.

During the examination period students and candidates should be particularly quiet when near an examination centre.

Candidates are not permitted to take bags, briefcases, folders, umbrellas, etc., into the examination room except with the express approval of the Presiding Officer. Small money purses only may be taken into the room, however, they must be placed on the floor.

In exceptional circumstances, and only with the express permission of the Presiding Officer, other articles may be brought into the examination room. They also must be placed on the floor.

Smoking or eating will not be permitted in the examination room nor will candidates be permitted to leave the room to smoke or eat.

Note: Failure to comply with any of the above rules may necessitate disciplinary action by the University.

Special Examinations

Where an assessment is conducted under special circumstances, a fee may be levied.

Reading Time

Reading time of ten (10) minutes prior to the commencement of a written assessment may be allowed at the discretion of the examiner.
Conduct of Candidates
Candidates shall not, by any improper means, obtain or endeavour to obtain assistance in their work, or endeavour to give assistance to any other candidate.

Candidates shall not behave in such a way as will interfere with another candidate’s right to undertake an assessment. Candidates shall not do anything designed to disadvantage other candidates during an assessment.

Misconduct in an assessment will be dealt with under the rules of the Faculty and the Statutes of The University of Sydney.

Illness or Misadventure during an Assessment
Candidates who attempt an assessment yet claim that their performance was prejudiced by sickness (or some other cause beyond their control) on the day of the assessment must notify the Director, Student Services (Cumberland), after the assessment and submit a supporting medical certificate or other documentation.

Applications for Special Consideration due to illness or misadventure during an assessment must be received by the Director, Student Services (Cumberland), within seven (7) days of the date of assessment.

Unless special arrangements are made prior to the assessment, candidates prevented by illness or other reason from working continually during the assessment shall not be allowed an extension of time at the end of the session to compensate for any time lost.

Illness or Misadventure during the Semester
During a semester a student may believe that their performance in an intra-semester assessment will be affected by illness or by some other cause beyond their control. Should the student desire these circumstances to be taken into consideration in determining their standing in the assessment and/or the subject(s) in their course, s/he is required to bring this (with supporting documentation) to the attention of the Director, Student Services (Cumberland), prior to or within seven days after the date of the assessment. The relevant School(s)/Department(s) will be notified of this request for Special Consideration. These circumstances may be accepted by the Examiner or the Board of Examiners as grounds for awarding of a deferred assessment.

A request for Special Consideration on the grounds of illness must be accompanied by a medical certificate signed by the candidate’s own medical practitioner. The certificate should...

a) describe the nature of the illness and its duration;
b) indicate the degree of incapacity of the candidate; and
c) indicate the date on which the candidate sought medical attention.

Application for Special Consideration on the grounds of illness or misadventure should be made on the application form available from Student Services Division (Cumberland).

Disability
Candidates suffering from a disability which puts them at a disadvantage in written assessments may apply to the Director, Student Services (Cumberland), prior to the assessment period for special provisions when the assessments are taken. Students may be required to support their request with medical evidence.

Recording of Results
Students’ results will be recorded using the following grades:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD</td>
<td>High Distinction</td>
</tr>
<tr>
<td>D</td>
<td>Distinction</td>
</tr>
<tr>
<td>CR</td>
<td>Credit</td>
</tr>
<tr>
<td>P</td>
<td>Pass</td>
</tr>
<tr>
<td>TP</td>
<td>Terminating Pass</td>
</tr>
<tr>
<td>I</td>
<td>Assessment Incomplete</td>
</tr>
<tr>
<td>AS</td>
<td>Pass with Advanced Standing</td>
</tr>
<tr>
<td>X</td>
<td>Fail with Post granted</td>
</tr>
<tr>
<td>XP</td>
<td>Pass following Post Assessment</td>
</tr>
<tr>
<td>F</td>
<td>Fail</td>
</tr>
<tr>
<td>DA</td>
<td>Deferred Assessment</td>
</tr>
<tr>
<td>WO</td>
<td>Discontinued without failure</td>
</tr>
<tr>
<td>WF</td>
<td>Discontinued with failure</td>
</tr>
</tbody>
</table>

HD indicates an outstanding level of achievement
D indicates an excellent level of achievement
CR indicates an above average level of achievement
P indicates an acceptable level of achievement
TP indicates an acceptable level of achievement in an Honours subject when the student is transferring to the associated pass programme
I indicates an assessment in the subject is yet to be completed
AS indicates a pass with advanced standing in the subject
X indicates the student's performance did not reach the acceptable level of achievement but was deemed to be of sufficient merit to warrant further assessment
XP indicates a pass following Post Assessment
F indicates failure to achieve the required standard of achievement
DA indicates final assessment has been deferred because of misadventure or illness
WO indicates permitted to discontinue subject without failure
WF indicates discontinued subject with failure
Notification of Results

Results for terminating subjects will be formally released by the Examinations Branch as follows:

**End of Semester 1**

Subjects that, according to the Faculty Handbook, are presented only in Semester 1.

**End of Semester 2**

Subjects that, according to the Faculty Handbook, are presented either in Semester 2 only or are presented over both Semesters 1 and 2.

Availability of Results for Terminating Subjects

Results will be made available to students as follows:

1. **Public Display of Results**
   - Results will be displayed on the day and at the places as notified on the Official Notice Boards.
   - Results will be displayed using the student identity number ONLY.
   - Students may exercise the option not to have their results displayed in this fashion by completing the appropriate form available from the Student Enquiry Counter.

2. **Individual Result Notices**
   - Individual result notices will be mailed to the student's last advised HOME ADDRESS on the date notified on the Official Notice Boards.
   - The result notice will show the final mark and grade for each relevant subject. Details of the assessment procedures used to determine the final result are available from the School/Department presenting the subject.
   - The relationship of grades to percentage marks is as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Distinction</td>
<td>85 - 100</td>
</tr>
<tr>
<td>Distinction</td>
<td>75 - 84</td>
</tr>
<tr>
<td>Credit</td>
<td>65 - 74</td>
</tr>
<tr>
<td>Pass</td>
<td>50 - 64</td>
</tr>
<tr>
<td>Fail</td>
<td>below 50</td>
</tr>
</tbody>
</table>

It is important to note that the University does not use a set formula for determining the number of specific examination grades to be awarded in particular subjects. A set of indicative proportions has been adopted by the Academic Board. The proportions are cumulative and are based on the number of students who gain a Pass or better in the particular subject.

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Distinction</th>
<th>Credit</th>
<th>%</th>
<th>/o</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st Year</td>
<td>3</td>
<td>14</td>
<td>42</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2nd Year</td>
<td>3</td>
<td>16</td>
<td>46</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3rd Year</td>
<td>4</td>
<td>18</td>
<td>50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The proportions of merit grades may vary from subject to subject and from year to year, reflecting different capabilities of different groups.

**Special Notes**

- No results will be given by telephone.
- It is the student's responsibility to ascertain assessment results.
- No notice of advice of change of address will be accepted unless in writing and with the student's signature. Preferably, the Change of Address/Name form should be used.
- Only overseas students not returning to their country of origin between semesters will be permitted to change their semester address for receipt of result notices.
- Failure to advise the Examinations Branch of the address to which the results are to be sent, and/or absence overseas, on holidays, or because of work or course commitments, will not be accepted as an excuse for non-receipt of assessment results.
- The University will presume that each and every result notice lodged with Australia Post, has been delivered no later than seven (7) days after the date of posting, as notified on Official Notice Boards.
- Students who have not received their results within seven (7) days of posting therefore, are responsible for contacting Student Services Division (Cumberland) and arranging for a copy of the result notice to be posted or personally collected.

Supplementary Assessments

With regard to supplementary assessments the Senate of the University has resolved as follows:

Supplementary examinations should be regarded by both teacher and taught as distinct privileges granted to worthy students and not as rights.

Supplementary examinations should not in general be granted to students who fail in more than two subjects.

Examiners or Boards of Examiners should be asked to report which students should be allowed to take supplementary examinations.
Supplementary assessment may be granted to students under the following circumstances:

a) due to duly certified illness, misadventure or circumstances beyond their control, the student has been unable to undertake an assessment at the appointed time, or takes an assessment under prejudicial conditions; or
b) the student has failed a subject, but the Examiner deems there is doubt about the result; or
c) the student has failed in one or more compulsory sections of a subject even though the composite mark may be greater than 49.9 - students in such a subject must have been advised at the start of the subject of any special requirements, e.g. the need to pass all sections or particular sections of the subject.

Assessments granted under circumstances (a) are DEFERRED Assessments. Applications for Special Consideration which may result in a deferred assessment must be lodged by the student, together with medical certificates or documentary evidence, with the Director, Student Services (Cumberland), no later than seven (7) days following the date of assessment. A deferred assessment may be awarded by the course examiner without an application by a student.

Assessments granted under circumstances (b) and (c) are POST Assessments. Following post assessments the grades awarded are XP or F, unless otherwise determined by the Board of Examiners.

Supplementary assessments (a), (b) and (c) maybe granted by the Examiner (ie Head of School/Department) and held prior to the Board of Examiners meeting, or may be granted by the Board of Examiners. Should the Examiner grant a supplementary assessment following the completion of all assessments in a subject but prior to the Board of Examiners, notification of the supplementary assessment must be sent to the Director, Student Services (Cumberland). Where there are sections of a subject (academic or clinical) which must be completed satisfactorily in order to pass the subject, the Examiner may grant a post assessment in some or all of these sections prior to the Board of Examiners. Notification of such a post assessment must be sent to the Director, Student Services (Cumberland).

When determining marks following a post assessment the following guidelines are used.

Where the post assessment is in the whole subject then the mark achieved in that assessment becomes the mark for the subject. Where the post assessment is in a part of a subject, then the mark achieved in that assessment will be aggregated with the mark previously achieved in the other part of the subject. The passing grade awarded following a post assessment is XP (no mark or a mark of 50 or more).

Finalisation of Assessment Requirements
All deferred and post assessment requirements (with the exception of clinical placements), must be completed by the end of Week 3 of the following semester.

Review of Results in a Completed Subject
Final results in a completed subject may be reviewed on request by students. Such a review will consist primarily in ensuring that all submissions in relation to a grade have been accounted for and that the total of all marks awarded is correct.

Applications for the review must be submitted in writing to the Director, Student Services (Cumberland), within fourteen (14) days of the date on which the results in question have been released.

Students dissatisfied with the outcome of a review of their result may choose to appeal the result by using the procedures approved in the Faculty for an Appeal against an Academic Decision.

Graduation "With Distinction"
Outstanding achievement in all Faculty undergraduate courses may be recognised at graduation by such students receiving an award "With Distinction".

In any one year, up to 10% of graduands in each of the undergraduate courses, may be admitted to the award "With Distinction" but this number need not be awarded if there are not graduands considered to be of sufficient merit.

The award "With Distinction" will be based on overall achievement in all subjects of the undergraduate course completed. Subject assessment in all stages of a given course will contribute equally towards a final ranking of students.

In terms of the current assessment system, subject grades will assume the following numerical numbers: HD-4, D-3, CR-2, P-I.

Where clinical education or field experience subjects are assessed according to the general assessment ranking procedure, those results will be incorporated into any final ranking. Where such subjects are assessed on a Pass/Fail basis a Pass result is required to maintain eligibility for the award "With Distinction" but this result is not included for average ranking purposes. The grade AS is also not included in the ranking process.

A student receiving a Fail result in any subject at any stage of a course will be regarded at ineligible for an award "With Distinction".

Progression and Exclusion

Progression
To satisfy the academic requirement for a University award, students must obtain a passing grade in all subjects in their courses.

Students must repeat failed subjects or their equivalent at the first opportunity and will be permitted to progress to the next semester carrying failed subjects, providing course requirements, including any co-requisites, pre-requisites and attendance requirements, can be met. School Academic Advisors may prescribe the program of study for students repeating failed subjects.
Advisory Centre for Overseas Students (ACOS)

ACOS provides English language tuition and learning assistance free of charge to all students enrolled on Cumberland Campus. The Centre is also responsible for the welfare of International Students and for orientation and language support for international visiting scholars.

The Centre is staffed by academic advisers who have qualifications in education, applied linguistics, languages, and teaching English as a second/foreign language. Workshops, seminars, tutorials and one-to-one consultations on language and related academic and professional communication skills are available throughout the year. The Centre liaises with academic staff and contributes to better practice in academic, clinical, professional and cross-cultural communication. Lecturers are invited to refer students to ACOS for assistance and to consult with ACOS staff on any matter related to the above areas.

Services to International Students include a 5 week Study Preparation Program in January-February for new undergraduate and postgraduate students; ongoing support with general welfare, accommodation, personal adjustment and family matters; organisation of cultural, educational and social events; and English language and learning assistance for academic and professional contexts.

Cumberland College ELICOS Centre

The ELICOS Centre operates in conjunction with the Advisory Centre for Overseas Students (ACOS). It offers tertiary preparation courses in Upper Intermediate and Advanced English for Academic Purposes (EAP) for students intending to enter health-related studies, and administers applicant placement and assessment tests to determine English language proficiency.

For further information about ACOS and ELICOS programs and services, telephone (02) 646 6638.

Banking Facilities

The National Australia Bank has an agency on campus. During semester, the Agency is open on Tuesdays and Thursdays, between 10:30 a.m and 1:00 p.m. The Agency welcomes new accounts.

Bookshop

The University Co-operative Bookshop operates a branch on the Cumberland campus. Situated at the rear of the Canteen, the Bookshop holds all prescribed texts and various stationery, software and toiletry items. During semester, the Bookshop is open from:

- Monday to Wednesday 8:30 a.m to 4:30 p.m
- Thursday 8:30 a.m to 5:30 p.m
- Friday 8:30 a.m to 3:30 p.m

The Bookshop is open extended hours at beginning of semesters.

During non-semester periods, the Bookshop is open Monday to Friday from 8.30 a.m to 4.30 p.m

Childcare

A Vacation Care Programme is held during school holidays at the College for children (aged 5 to 12 years) of staff and students. Contact Carl Webster on (02) 646-6291 for more information.

No on-campus long day care is available at present. Information on long day care centres in the surrounding area is available from the Student Union (02) 646-6488 or Auburn Municipal Council (02) 646-4222.

Computing Facilities

The College's Information Technology Services Division provides computing facilities for administrative and academic, teaching and research activities.

The College has a:

- Hewlett Packard (HP) 3000 series 42 used for administrative purposes, e.g. Finance, Payroll etc.
- HP 3000 series 70, this system was donated to the College by Hewlett Packard, and is used for the College's on-line library system (from Virginia Tech), and Student Records Administration system.
- HP 9000 series 715. The College is in the process of 'porting' the Student Records Administration System from the HP 3000/70 to this machine.
- DEC (Digital Equipment Corporation) Micro Vax 3100.
- DEC Micro Vax II 3100/40. The DEC computers are clustered and are used for teaching and research activities.
- SUN SparcStation 1 + used by the University for network control and related network facilities.
The College computer network is based on a Fibre Optic backbone which connects most of the major buildings on the campus. The network is connected to the main University computer network (SYDNET) via a 64k ISDN line. The University of Sydney's network is connected to AANet an Australia wide academic network, which is connected via satellite link to InterNet a global academic computer network.

Several other major networks are accessible from InterNet e.g. BitNet. Students and Staff have access to these world wide facilities via the DEC computers.

The College has available a wide range of programming languages including PASCAL, BASIC, FORTRAN, COBOL, and COGNOS POWERHOUSE 4th Generation Languages and a Relational Database system. SPSS-X, and Minitab statistical packages, WordPerfect word processing package and a 20/20 Spreadsheet program are also available.

The College has 3 terminal labs for general access of the Vax computers, 3 major IBM compatible personal computer labs, a small Apple II lab and a small Apple Mac lab available for student use. Some of these are connected to the College network.

Throughout the College there are numerous other microcomputers (IBM compatibles & Apple Mac's) some of these are available for student use.

Several microcomputer software packages are available from the College Library for staff and student use.

Counselling Service

A Counselling Service is provided to assist students, prospective students and staff who wish to discuss concerns of a personal, academic or vocational nature. The service is free and confidential.

The Counselling Service aims to help students achieve their educational goals by providing counselling and related services to assist students overcome difficulties which could affect progress through their course.

People come to counselling for many reasons - confusion about career plans, motivational issues, anxiety about exams or assignments, relationships, stress, depression and family problems.

The Counsellor is also the first point of contact for students with disabilities. Students with disabilities (physical, sensory, medical, psychological, learning) are advised to let the University know of their needs and to obtain from the Counsellor information about support services and other forms of assistance available to them.

The Counsellor is located in Room A005 in Block A. Appointments can be made in person or by telephoning (02) 646-6473.

Students with Special Needs

Many students experience difficulty meeting their commitments because of the educational disadvantage created by disability. The disability might be apparent or invisible, and might range from very slight to very severe. The disability could be physical, sensory, psychological, medical or learning.

Students with disabilities are strongly advised to inform the University of their needs because a variety of support services is available, including notetakers, volunteer readers, special exam arrangements and equipment for loan. Use of such assistance can minimise the disadvantage a student with a disability experiences.

Equal Employment Opportunity and Affirmative Action

The University has an EEO Unit and an EEO/AA Management Plan which covers all University staff and students. EEO and Affirmative Action Policies are designed to prevent discrimination, promote equity, and work in the interests of target groups who have suffered discrimination in the past. Such groups include Aborigines, women, people from non-English speaking backgrounds and people with mental or physical disabilities.

The College has its own EEO and Affirmative Action Advisory Committee which provides a forum for discussion and promotion of these policies. There is also a campus-based EEO Officer available for consultation by any staff member who may have concerns in areas such as employment equity, working conditions, sexual or racial harassment, child-care or applying for employment.

The EEO Officer organises EEO-related staff development seminars and On-Campus Vacation Childcare Programmes which accommodate up to 30 children each school holidays. Three Discrimination Advisers, drawn from academic and general staff, work in conjunction with the EEO Officer to provide confidential consultation on EEO issues. The EEO Officer is located in Room A015 (Telephone No. 646-6291).

Faculty Discrimination Advisors

All staff and students within the University have the right to be treated fairly and with respect. The University, both as an employer and as a provider of educational services, seeks to promote an environment which supports the productivity, self-esteem and personal work goals of both staff members and students.

The University of Sydney is committed to the provision of equal opportunity for all staff, which includes ensuring the absence of discrimination on the grounds of sex, pregnancy, race (including colour, ethnic background or national identity), marital status, physical or intellectual impairment, sexual preference, political or religious belief or age.

Further, the University of Sydney is committed to the elimination of all forms of harassment and to providing support to the victims of harassment.
What is harassment?
Harassment is any behaviour that is unsolicited and unwanted and as such is offensive. The distress caused by harassment may be intentional or unintentional. Harassment is one form of discrimination and generally occurs when power is improperly exercised to the detriment of a person or group of people.

What can you do if you are harassed?
If possible tell the person directly that their behaviour is unacceptable to you and ask them to stop. If this is not appropriate or leads to no improvement then seek advice from a University Discrimination Advisor or other source listed below. You may also direct your concerns to senior staff within your school or department or to Faculty Discrimination Advisors.

Other sources:
EEO Unit, Main Campus Ph: 351-2212/4545
Cumberland College Student Union Ph: 646-6488
SUPRA Ph: 660-5222

Graduates Association and Alumni
The Graduates Association was established in 1980. The general aims of the Association are to:

- support and advance the character, status and interests of the College/Faculty
- provide meeting opportunities for graduates to maintain or re-establish friendships
- act as a centre for liaison with industry, commerce and community
- assist the College/Faculty to communicate with graduates
- assist in the future development of the College/Faculty and of tertiary education in the health sciences

All graduates of the Faculty of Health Sciences (formerly Cumberland College of Health Sciences), and graduates of the professional schools which together formed Cumberland College, are eligible for membership of this Association and can therefore retain a vital, active and professional link with the College. Further information may be obtained from the Faculty Graduates Association, office tel. 646 6291.

The Faculty's Alumni include all its graduates, ex-students and community friends. Alumni are kept in touch through a newsletter 'Graduate News' and through the Alumni and Graduates Relations Office, which is located in the Secretariat of the Faculty.

All alumni are able to become life members of the Graduate Association on payment of a once-only fee of $50. Members can:

- borrow from the College Library (free for five years and then enjoy discount rates)
- enjoy a 10% discount on courses offered by the Centre for Continuing Education at Cumberland College
- have the use of tennis courts and oval
- make their voice heard on issues affecting the College
- become eligible for a Graduates Association Grant for post-graduate study at the Faculty of Health Sciences
- become a member of the Association (or willing to join on application)

The Graduates Association offers annually a grant of $1500 to provide financial assistance to a new or continuing student in any course of postgraduate study in the Faculty of Health Sciences. The grant is made over one year for full-time students and over two years for part-time students. Applicants must be members of the Association (or willing to join on application).

College Library
The University of Sydney's Cumberland campus maintains its own library to provide resources and support to students, staff and researchers. The Library collection of approximately 81000 volumes and 2000 serial titles is particularly oriented towards the health and social sciences. The library aims to support the undergraduate, graduate, and research programs, to provide service and assistance to users, as well as to provide certain general and recreational materials and a pleasant environment for study and research.

The College Library is located centrally on campus, in R block, and is accessible to users with physical disabilities. Level 1 includes the Reference collection, current issues of journals, Closed Reserve, the Information desk, the Circulation desk, photocopying facilities, CD ROM facilities, students' disability access room, word processing room, study areas and staff work areas.

Level 2 contains the main collection of resources. Books, journals, video cassettes, computer software and other audiovisual materials are arranged by Dewey Decimal Classification within one sequence. Level 2 also contains study areas, audiovisual playing facilities and group study rooms.

Access to the library collection is via a user-friendly OPAC (online public access catalogue). Material may be located by author, title, subject or keyword approaches. OPACs are located on both levels of the Library. The holdings of other university libraries may be accessed through AARNet.

CD ROM facilities allow users to make their own literature searches on a variety of databases. Library staff also offer literature searching for a fee. Interlibrary loan services are also available.

Information Desk (Ph: 646-6347)
Enquiries about any aspect of the Library's services are most welcome.

Circulation desk (Ph: 646-6423)
Renews of loans may be made in person or by telephone during library hours. (Overdue items may not be renewed.)

Library hours
During Semester
Monday to Thursday 8.00 am - 10.00 pm
Friday 8.00 am - 4.00 pm
Saturday and Sunday 10.00 am - 4.00 pm
Inter-Semester
Monday to Thursday 8.30 am - 4.30 pm
Friday 8.30 am - 4.00 pm
Saturday and Sunday Closed
Loans

<table>
<thead>
<tr>
<th>Students</th>
<th>Undergraduate</th>
<th>1 week, 1 renewal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Postgraduate</td>
<td>3 weeks, 2 renewals</td>
<td></td>
</tr>
<tr>
<td>Staff</td>
<td>3 weeks, 2 renewals</td>
<td></td>
</tr>
<tr>
<td>Other patrons (conditions apply)</td>
<td>1 week, 1 renewal</td>
<td></td>
</tr>
</tbody>
</table>

College Production Services

College Production Services comprises five areas:

- Graphics
- Printing
- Photography
- Television
- Audio Visual Distribution

Graphics section designs and produces artwork for a variety of visual media. Advice is offered on the layout of submissions, promotional brochures, posters and the use of desktop publishing facilities in support of teaching and research. Graphics has also an increasing involvement in the design of conference posters and computer slide presentations.

Photography offers a full photographic service, both location and studio. It offers full services in all aspects of 'black and white' and in house processing of colour slides. As with other areas, photography is available to assist in the teaching of photographic techniques and processes as required. An increasing area is the processing of computer generated slides, both from film recorders and shot directly of good quality screens.

Printery offers a fast turnaround copying service, with all "printing" requirements now sourced externally. Its main work is now in the production of lecture notes and related teaching materials. Equipment used "in house" are high speed photocopiers, which offer the advantages of improved speed and enhanced finishing capabilities.

Television provides professional quality audio and video faculties for the production of teaching material, research data and course promotion materials. Limited support and advice is also given to students undertaking audio/visual projects. A small amount of work is being undertaken for other faculties of the university, as well as work for professional bodies in the Health Science area. 1994 saw a large commitment in providing audio and video taped material for Medical Radiation Technology distance education teaching.

Audio Visual Distribution became a part of College Production Services from 1st January, 1994. Audio Visual Distribution was transferred from the College Library. It provides support for audio visual needs in all major lecture theatres, and loans items of audio visual equipment for teaching and research.

Student Accommodation

The Students' Union publishes a Housing Booklet, giving information on hostels in the local area, finding rental and share accommodation, your rights as a tenant, financial support etc.

The Union runs an Accommodation Register, which contains information on accommodation available in the local area, including full/part board, share flats and houses to rent. The register also gives information on cost, proximity to transport, contact numbers, etc. and is available from the first Monday in February each year in the Union Office.

In addition to this, the Union has an arrangement with Auburn District Hospital whereby students are allocated rooms.

Yannadah

The student residence on the Cumberland campus, Lidcombe, provides accommodation for up to 39 first year students from outside the greater metropolitan area of Sydney. Further information and details on how to apply will be included with course offers. Places are determined by ballot. For information contact the Residential Supervisor on (02) 646 6405.

Students' Union

All undergraduate and postgraduate students are required to pay Students' Union membership fees at enrolment. Afforded initial recognition in principle in 1989, negotiations in 1991 resulted in the Senate of the University recognising CCHS Students' Union as the student organisation responsible for the provision of services and facilities on Cumberland Campus.

Cumberland students, in addition to being full members of CCHS Students' Union, also have access to services of four of the five Main campus student organisations. This is in the form of: full membership of either of the two relevant representative bodies SUPRA (Sydney University Postgraduate Representative Association) or the SRC (Student Representative Council); associate membership of either of the two relevant sports organisations SUWASA (Sydney University Women's Sports Association) or MSU (Men's Sports Union).

Student Representation

The Union is a resource base which provides support services for student representatives on Committees of the Faculty and for individuals or groups of students concerning academic rights and progress. The Management Committee of the Students' Union is the recognised representative bodyfor all Faculty students on matters affecting students at the campus level. Any student can nominate to be elected as a student representative.

Union Office

This is the central point for all Union operations. It also deals with queries relating to all Union programs, services and faculties. You can find the Union Office in the Students' Union Building on the middle level.

Telephone (02) 7491899 or (02) 646 6488 (external) or extension 6488 (internal); facsimile (02) 646 3561.

The Union is the authorised uniform supplier for the following schools: Medical Radiation Technology, Occupational Therapy, Orthoptics, Physiotherapy and Faculty of Nursing.
Union Cafeteria
Located in F Block, the Union Cafeteria offers a wide range of subsidised hot and cold food, salad and beverage bars. Vending machines are also located in the Union Cafeteria and in the foyers of S and T Blocks.

Union Coffee Shop
The Union also operates a Union Coffee Shop, serving cappuccinos, sandwiches and snacks on the middle level of the Union Building.

Union Shop
The Union Shop is located at the front of the Union building. It is a subsidised retail outlet arming to provide the cheapest prices on campus for the following: stationery, newspapers, magazine, course requirements, confectionery. The shop also provides CTP Green Slips and is an official Australia Post "Post Point" Dry cleaning services is negotiating for an Instant Lotteries Licence.

Union Maclab
This facility provides twenty (20) Apple Colour Macintosh computers and a colour scanner networked to a high quality Apple Laser printer. In addition computers are available to rent overnight or on the weekends.
Hours are:
Monday-Thursday 8.00 am - 8.00 pm
Friday 8.00 am - 4.00 pm

Other Union Services
The Union provides a subsidised photocopy service. There are six (6) photocopiers, with the charge per copy of 7 cents per page. The copier room is located in the Union building.

Union Bar
The Union operates a subsidised Union Bar service for students. The bar is open daily and regularly in the evening for entertainment.

Student Resource Programs
The Union provides resources designed to help in awareness of the many areas relating to students' tertiary experiences. A Student Resource Officer is employed to provide assistance in areas of student welfare, including student representatives, assisting student groups and provision of academic, employment and tenancy advice. In addition, information and related application forms relating to HECS (Higher Education Contribution Scheme), AUSTUDY and Disabled Students' Assistance are available from the Union Office.

Sport and Recreation Programs
A variety of sport and recreational events throughout year are provided.
Lunchtime sport competitions such as volleyball, touch football, netball and basketball are very popular, as are the inter faculty days. Intercols against other universities are also popular.

Activities Programs
An Activities Officer is employed to provide a wide range of activities. These include Market Days, Theme Days, the College Annual Ball, End of Semester and End of Year parties, leisure classes, live bands, comedy and novelty acts. Additionally, the Activities Officer assists with the Union affiliated Clubs and Societies.

Union Affiliated Clubs and Societies
Numerous clubs on Campus are affiliated to and receive funding from your Students' Union. These include: Adventists' Students Society, Amnesty International, Association of Rehabilitation Counselling, Students (ARCS), Australian Physiotherapy Students' Association (APSA), Basketball Club (Coyotes), Canoe Club, Cumberland Cricket Club, Evangelical Christian Union, Gay and Lesbian Support Group, Hockey Club, International Students' Society, Martial Arts Club, MRT Students' Society, Muslim Students' Society, NSW Occupational Therapy Students' Association (NSWOTSA), Nursing Students' Association, Orthoptics Students' Association, Rugby League Football Club, Snow Ski Club, Students' Association of Diversional Therapy, Students' Association of Speech and Hearing (SASH), Students' for Christ, Underwater Explorers' Club and Water Ski Club.

Union Subsidies
Funding is provided as a contribution towards students attending conferences directly related to their course of study. In addition assistance is available to students selected for State or National Sporting sides.

Union Publications
Your Students' Union publishes Corpus Callousum, a fortnightly newspaper; Clubs and Societies Manual; Student Diary and the Housing Booklet.

Education Research
Research is conducted by the Union on education issues and in areas affecting the academic life of Cumberland students.
Travel Concessions

Rail, Bus and Ferry
State Rail Authority of N.S.W. and State Transit Authority of N.S.W. Student Identification Card (Form 201) are entitled to unlimited half-fare travel on all State Rail Authority and State Transit Authority services; rail, bus, and ferry (except Jetcats and certain special bus services), throughout New South Wales. Concessions are also available for inter-state travel on rail only. Cards will expire 31st March each year.

Further information regarding concessions may be obtained from the Student Enquiries Counter. A passport-size photograph is required for the identification card.

Aircraft
Full-time students under the age 26 and not in receipt of income or remuneration are entitled to the following concessions:

Inter-State - Ansett and Australian Airlines offer a 25% concession. Eligible students must purchase the appropriate airline identity card for a small fee, attach a passport-size photograph and have it signed and stamped by the University's authorised officers. Students must present the University Identity Card, and proof of age, at the time the concession card is purchased from the airline. It is understood that each airline will accept the other identity card.

Intra-State - Ansett Express and Eastern Australian Airlines offer a concession available in the same manner as inter-state concessions.

Overseas - Concessions are available to students enrolling at the University or travelling to and from their homes to University, who are enrolled in a full-time course.

Note: Income or remuneration includes Public Service Board traineeships. Scholarships, allowances and similar awards are exempt from the definition of remuneration.

Other Facilities & Services

Lockers
A limited number of lockers are available on campus on a first-come-first-served basis. All lockers must be cleared at the end of each semester. The College will not accept responsibility for any item lost from these lockers.

There are also a small number of lockers set aside for the use of students with disabilities located in S & T Blocks. Students wishing to use these lockers should contact the Property Services Division.

Lost Property
Property found on campus should be taken to the House Services Manager, Property Services Division. Lost property is held for a period of three months. If unclaimed after two months, it may be claimed by the finder (not including a member of staff). If still unclaimed after a three month period, the College reserves the right to dispose of these items.

Parking
Parking is available on campus for staff, however places are limited for students and visitors. Parking fees apply and the conditions specified in the parking regulations must be observed. Parking permit applications, and details of the regulations and infringement procedures, are available from the Property Services Division.

For those requiring access to disabled parking spaces, the Student Counsellor should be contacted in the first instance.

Sporting Facilities (Multi-purpose courts and oval)
Sporting facilities at the College comprise four multi-purpose courts for tennis, netball and basketball, and an oval. These facilities can be reserved for use with bookings to be made in one hour increments.

The bookings are to be made no earlier than a week ahead. A hiring fee is charged for tennis court use on weekends, public holidays and when lighting is required. Bookings can be made with the Property Services Division, Jeffrey Miller Administration Building (telephone 646 6652).

Block bookings for a special purpose, tournament, or by an external organisation, should be submitted in writing to the Property Services Division.
As at 1 July 1994

Degrees, Diplomas and Certificates in the Faculty of Health Sciences

1. The degrees in the Faculty of Health Sciences shall be:
   (a) Bachelor of Applied Science (BAppSc)
   (b) Bachelor of Health Science (BHlthSc)
   (c) Master of Applied Science (MApplSc)
   (d) Master of Health Science (MHlthSc)
   (e) Master of Exercise and Sport Sciences (MEEx&SpSc)
   (f) Master of Community Health (MComHlth)
   (g) Master of Rehabilitation Counselling (MRRehabCling)
   (h) Master of Health Science Education (MHlthScEd)
   (i) Master of Communication Disorders (MComm.Dis)
   (j) Master of Behavioural Health Science (MBehHlthSc)
   (k) Master of Child and Adolescent Health (MChlthAdolHlth)
   (l) Master of Gerontology (MGeront)
   (m) Doctor of Philosophy (PhD)

2. The diplomas and certificates in the Faculty of Health Sciences shall be:
   (a) Diploma of Applied Science (DipAppSc)
   (b) Diploma of Health Science (DipHlthSc)
   (c) Graduate Diploma of Applied Science (GradDipAppSc)
   (d) Graduate Diploma of Health Science (GradDipHlthSc)
   (e) Graduate Diploma in Exercise and Sport Sciences (GradDipEx&SpSc)
   (f) Graduate Diploma in Community Health (GradDipComHlth)
   (g) Graduate Diploma in Rehabilitation Counselling (GradDipRehabCling)
   (h) Graduate Diploma in Health Science Education (GradDipHlthScEd)
   (i) Graduate Diploma inBehavioural Health Science (GradDipBehHlthSc)
   (j) Graduate Diploma of Child and Adolescent Health (GradDipChlthAdolHlth)
   (k) Graduate Certificate in Health Science Education (GradCertHlthScEd)
   (l) Graduate Certificate of Applied Science (GradCertAppSc)
   (m) Graduate Certificate of Behavioural Health Science (GradCertBehHlthSc)
   (n) Graduate Certificate of Child and Adolescent Health (GradCertChlthAdolHlth)

3. The Faculty, acting on the recommendation of the Head of School/Department concerned, may refuse permission to a candidate for any of the above degrees, diplomas or certificates, to undertake or continue the clinical education (fieldwork/professional experience) component of the award, in the circumstances where the candidate has not demonstrated satisfactory progress toward fulfilling the clinical requirements of the award.

4. The Faculty delegates authority to the Associate Dean (Undergraduate Studies)/Associate Dean (Graduate Studies) to act on behalf of Faculty in relation to section (3) above, and that the Dean be the first point of appeal for students in relation to actions taken in this matter.

Bachelor of Applied Science

1. The degree of Bachelor of Applied Science may be awarded in the grade of Pass degree in:
   (a) Diversional Therapy
   (b) Health Information Management
   (c) Medical Radiation Technology
   (d) Occupational Therapy
   (e) Orthoptics
   (f) Physiotherapy
   (g) Speech Pathology.

2. (1) The degree of Bachelor of Applied Science may be awarded in the grade of Honours degree in the following areas:
   (a) Health Information Management
   (b) Medical Radiation Technology
   (c) Occupational Therapy
   (d) Orthoptics
   (e) Physiotherapy
   (f) Rehabilitation Counselling
   (g) Speech Pathology.
   (2) There shall be three classes of honours, namely Class I, Class II, and Class III.
   (3) Within Class II there shall be two divisions namely Division 1 and Division 2.
   (4) If a candidate qualifies for the award of Honours Class I and the Faculty is of the opinion that the candidate's work is of outstanding merit, that candidate shall receive a bronze medal.

3. (1) A subject shall consist of lectures together with such clinical, laboratory and tutorial instruction, practical work, exercises and essays as may be prescribed by the Faculty or the school or department concerned.
   (2) The words 'to complete a subject' and derivative expressions mean:
      (a) to attend the lectures and the meetings, if any, for clinical, laboratory or tutorial instruction; and
(b) to obtain a passing grade for that subject in accordance with the assessment criteria prescribed by the Faculty or the school or department concerned.

3. A candidate permitted to re-enrol in a subject which has previously not been satisfactorily completed shall, unless exempted by the Faculty, again complete all the work of the subject.

4. Where in these resolutions a power is given to the Faculty or a head of school or department, subject to any express indication to the contrary or resolution passed by the Faculty, the Faculty or a head of school or department may, in their discretion, in any particular case:
   (a) exercise the power,
   (b) exercise the power conditionally, or
   (c) decline to exercise the power.

5. A candidate readmitted to candidature for the degree after an absence of more than one year shall complete the degree under such conditions as the Faculty shall determine.

   (2) Except with the permission of the Faculty, on the recommendation of the head of the school or department concerned, a candidate shall not enter a subject unless entry requirements prescribed for that subject have been satisfied.

6. A candidate may be granted credit towards the degree on the basis of a subject or subjects regarded by the Faculty, on the recommendation of the head of school or department concerned, as equivalent in workload and academic standard, completed at another university or other tertiary institution, provided the maximum credit granted shall not exceed the equivalent of two-thirds of the degree requirements.

7. A candidate for the Pass degree shall complete the subjects as set out in the following tables in respect of the appropriate degree area.

8. A candidate for the Honours shall meet the requirements prescribed by the Faculty for admission to the honours program and shall complete the subjects as set out in the following tables.

Table A - Diversional Therapy

A.1 - Pass course

<table>
<thead>
<tr>
<th>Year 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Sociology</td>
</tr>
<tr>
<td>Psychology I</td>
</tr>
<tr>
<td>Sociology of Community and Family</td>
</tr>
<tr>
<td>Biological Sciences I</td>
</tr>
<tr>
<td>Professional Practice I</td>
</tr>
<tr>
<td>Management and Computer Skills</td>
</tr>
<tr>
<td>Theories of Recreation and Leisure</td>
</tr>
<tr>
<td>Creative Arts in Recreation: Visual Arts</td>
</tr>
<tr>
<td>Communication Theory and Practice</td>
</tr>
<tr>
<td>Leadership and Group Dynamics</td>
</tr>
<tr>
<td>Introduction to Teaching and Learning</td>
</tr>
<tr>
<td>Introduction to People with Disabilities</td>
</tr>
<tr>
<td>Issues which Influence Client Care</td>
</tr>
<tr>
<td>Field Experience I</td>
</tr>
</tbody>
</table>

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Table B - Health Information Management

B.1 - Pass Course

<table>
<thead>
<tr>
<th>Year 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Information Systems I</td>
</tr>
<tr>
<td>Health Information Systems II</td>
</tr>
<tr>
<td>Australian Health Care Systems</td>
</tr>
<tr>
<td>Medico-Legal Principles I</td>
</tr>
<tr>
<td>Clinical Classification I</td>
</tr>
<tr>
<td>Medical Terminology I</td>
</tr>
<tr>
<td>Medical Terminology II</td>
</tr>
<tr>
<td>Basic Human Biology I</td>
</tr>
<tr>
<td>Communication</td>
</tr>
<tr>
<td>Introduction to Psychology</td>
</tr>
<tr>
<td>Introduction to Sociology</td>
</tr>
<tr>
<td>Professional Experience I</td>
</tr>
<tr>
<td>Microcomputer Applications</td>
</tr>
</tbody>
</table>
**Year 2**
- Programming Logic and Design
- Systems Analysis and Design
- Clinical Classification II
- Basic Human Biology II
- Social Psychology
- Health, Society & Social Change
- Research Methods & Design
- Statistical Concepts
- Management Principles I
- Medical Science I
- Medical Terminology III
- Professional Experience II
- Computer Applications in Health Care
- Database Systems

**Year 3**
- Financial Management in Health Care
- Medico-Legal Principles II
- Casemix Measurement Systems
- Psychology of Work and Management
- Sociology of Work and Organisations
- Research Project
- Management Principles II
- Medical Science II
- Medical Science III
- Epidemiology
- Professional Experience III
- Clinical Classification III
- Evaluation of Quality in Health Care

**B.2 - Honours Course**

**Year 1** - As for Pass Course

**Year 2** - As for Pass Course

**Year 3**
- Financial Management in Health Care
- Casemix Measurement Systems
- Psychology of Work and Management
- Sociology of Work and Organisations
- Research Project
- Management Principles II
- Medical Science II
- Medical Science III
- Epidemiology
- Professional Experience III
- Clinical Classification III
- Evaluation of Quality in Health Care
- Advanced Research Methods
- Research Elective

**Year 4**
- Research Seminar
- Research Thesis
- Research Proposal

---

**Table C - Medical Radiation Technology**

**C.1 - Pass Course**

**Year 1**
- Biological Sciences I
- Radiation Physics I
- Behavioural Science I
- Medical Radiations
- Clinical Education I

**Year 2**
- Biological Sciences II
- Behavioural Science II
- Radiation Biology and Protection
- Sectional Anatomy
- Clinical Education II
- PLUS
- Imaging I
- Radiography I
- OR
- Nuclear Medicine Physics I
- Nuclear Medicine I
- Instrumentation I
- OR
- Radiation Therapy I
- Tumor Pathology
- Radiotherapy Physics I

**Year 3**
- Behavioural Science III
- Image Processing
- Sonography
- Professional Studies
- PLUS
- Imaging H
- Radiography H
- OR
- Nuclear Medicine H
- Instrumentation H
- OR
- Radiation Therapy H
- Radiotherapy Physics H
- Principles of Oncology

**C.2 - Honours Course**

**Years 1 and 2** - As for Pass Course

**Year 3** - As for Pass Course

PLUS
- Research in Medical Radiations

**Year 4**
- Honours Workshop
- Research Elective
- Research Project
C.3 - Conversion Course

This program is for candidates who have completed the Diploma in Applied Science in Medical Radiation Technology.

Radiation Biology and Protection
Medical Radiations Project
Advances in Radiography
OR
Sectional Anatomy
OR
Sonography

Table D - Occupational Therapy

D.1 - Pass Course

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Courses</th>
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<tbody>
<tr>
<td></td>
<td>Behavioural Science I</td>
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<tr>
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<td>Research Methods I</td>
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<tr>
<td></td>
<td>Physiological Principles</td>
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<tr>
<td></td>
<td>Musculoskeletal Anatomy and Biomechanics</td>
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<tr>
<td></td>
<td>Human Occupations I</td>
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<tr>
<td></td>
<td>Components of Occupational Performance I</td>
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<tr>
<td></td>
<td>Occupational Therapy Theory and Process I</td>
</tr>
<tr>
<td></td>
<td>Lifestyle and Lifespan Development I</td>
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<td>Occupational Therapy Fieldwork I</td>
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<thead>
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<th>Year 2</th>
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<td>Research Methods II</td>
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<tr>
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<td>Neurobiology</td>
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<td>Human Occupations II</td>
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<td>Occupational Therapy Fieldwork II</td>
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<tr>
<td></td>
<td>Interprofessional Studies I</td>
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<thead>
<tr>
<th>Year 3</th>
<th>Courses</th>
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<tr>
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<td>Applied Physiology</td>
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<td></td>
<td>Applied Biomechanics</td>
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<tr>
<td></td>
<td>Occupational Performance III</td>
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<tr>
<td></td>
<td>Occupational Therapy Theory and Process in</td>
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<tr>
<td></td>
<td>Occupational Therapy Project</td>
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<tr>
<td></td>
<td>Occupational Therapy Fieldwork in</td>
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<td></td>
<td>Interprofessional Studies m</td>
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<table>
<thead>
<tr>
<th>Year 4</th>
<th>Courses</th>
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<tbody>
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<td>Issues in Occupational Therapy Practice</td>
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<tr>
<td></td>
<td>Selected Studies</td>
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<td>Occupational Therapy Fieldwork IV</td>
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</table>

D.2 - Honours Course

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Courses</th>
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<thead>
<tr>
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<th>Courses</th>
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<td>As for Pass course</td>
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<thead>
<tr>
<th>Year 3</th>
<th>Courses</th>
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<td>Applied Physiology</td>
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<td>Applied Biomechanics</td>
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<td></td>
<td>Occupational Performance III</td>
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<tr>
<td></td>
<td>Occupational Therapy Theory and Process in</td>
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<td></td>
<td>Occupational Therapy Fieldwork III</td>
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<tr>
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<td>Interprofessional Studies III</td>
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<td></td>
<td>Honours Research Seminar I</td>
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<td>Advanced Research Methods</td>
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<thead>
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<th>Year 4</th>
<th>Courses</th>
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<td>Issues in Occupational Therapy Practice</td>
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<td>Research Method Elective</td>
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<td>Occupational Therapy Fieldwork IV</td>
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<td>Individual Research Consultation</td>
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<td>Honours Research Seminar H</td>
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<td>Honours Thesis</td>
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</table>

D.3 - Pass Course (4 year full-time)

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<thead>
<tr>
<th>Year 1</th>
<th>Courses</th>
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<tbody>
<tr>
<td></td>
<td>Human Occupations LA</td>
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<tr>
<td></td>
<td>Human Occupations IB</td>
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<td></td>
<td>Components of Occupational Performance LA</td>
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<tr>
<td></td>
<td>Components of Occupational Performance IB</td>
</tr>
<tr>
<td></td>
<td>Occupational Therapy Theory and Process in</td>
</tr>
<tr>
<td></td>
<td>Occupational Role Development I</td>
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<tr>
<td></td>
<td>Fieldwork Education I</td>
</tr>
<tr>
<td></td>
<td>Introductory Psychology</td>
</tr>
<tr>
<td></td>
<td>Cognitive Functioning</td>
</tr>
<tr>
<td></td>
<td>Management of Behaviour</td>
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<tr>
<td></td>
<td>Introductory Human Biology</td>
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<td>Musculoskeletal Anatomy</td>
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<tr>
<td></td>
<td>Introductory Neurobiology</td>
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<td></td>
<td>Neurobiology I</td>
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<thead>
<tr>
<th>Year 2</th>
<th>Courses</th>
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<tbody>
<tr>
<td></td>
<td>Human Occupations HA</td>
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<td>Components of Occupational Performance HA</td>
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<td>Occupational Therapy Theory and Process HB</td>
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<td>Fieldwork Education H</td>
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<td>Australian Society</td>
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<td></td>
<td>Sociology of Health I</td>
</tr>
<tr>
<td></td>
<td>Research Methods and Statistics</td>
</tr>
<tr>
<td></td>
<td>Neurobiology H</td>
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<tr>
<td></td>
<td>Body Systems I</td>
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<tr>
<td></td>
<td>Applied Biomechanics</td>
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</tbody>
</table>
Year 3
Human Occupations III
Components of Occupational Performance III
Occupational Therapy Theory and Process HE
Fieldwork Education in
Sociology of Health II
Health Psychology
Body Systems I E

Year 4
Human Occupations IV
Components of Occupational Performance IV
Occupational Therapy Theory and Process IV
Evaluation of Occupational Therapy Programs
Fieldwork Education IV
Psychology of Adulthood and Ageing
Social Psychology
Sociology Elective
Applied Physiology

D.4 - Honours Course (4 year full-time)

Year 1 - As for Pass Course

Year 2 - As for Pass Course

Year 3
Human Occupations III
Components of Occupational Performance III
Occupational Therapy Theory and Process III
Fieldwork Education III
Sociology of Health II
Health Psychology
Body Systems II
Honours Research Seminar I
Honours Proposal Development

Year 4
Human Occupations IV
Components of Occupational Performance IV
Occupational Therapy Theory and Process IV
Evaluation of Occupational Therapy Programs
Fieldwork Education IV
Psychology of Adulthood and Ageing
Social Psychology
Sociology Elective
Applied Physiology
Honours Research Seminar II
Individual Research Consultation
Honours Thesis

Table E - Orthoptics

E.1 - Pass Course

Year 1
Professional Studies A
Professional Studies B
Behavioural Science I
Research Methods I
Biological Sciences I
Clinical Studies I

Year 2
Concomitant Strabismus I
Concomitant Strabismus II
Disorders of the Eye and Visual Pathway I
Disorders of the Eye and Visual Pathway II
Behavioural Science II
Research Methods II
Biological Sciences U
Clinical Studies HA
Clinical Studies HB

Year 3
Ocular Motility Disorders I
Ocular Motility Disorders II
Orthoptics in Gerontology
Orthoptics in Paediatrics
Behavioural Science III
Biological Sciences III
Clinical Studies HIA
Clinical Studies HIB

Year 4
Integrated Studies
Clinical Studies IV

E.2 - Honours Course

Years 1, 2 and 3 - As for Pass Course

Year 4
Advanced Case Studies
Clinical Studies IV (Honours)
Research Elective
Research Statistics
Thesis

E.3 - Pass Course (4 year full-time)

Year 1
Instrumentation I
Visual Processes
Binocular Vision
Disorders of the Visual System IA
Disorders of the Visual System IB
Introductory Human Biology
Introductory Neurobiology
Optics I
Body Systems
Neurobiology I
Optics II
Behavioural Science I
Clinical Studies I
Table F - Physiotherapy

F.1 - Pass course (4 year)

Year 1
- Kinesiology I
- Musculoskeletal Physiotherapy I
- Topics in Physiotherapy I
- Electrophysical Agents I
- Introductory Neurobiology
- Psychology of Human Performance
- Research Methods & Statistics I
- Psychology of Motor Behaviour
- Introductory Human Biology
- Neurobiology I
- Functional Anatomy A
- Functional Anatomy B
- Body Systems I

Year 2
- Kinesiology II
- Physiotherapy in Neurology I
- Cardiopulmonary Physiotherapy I
- Musculoskeletal Physiotherapy II
- Topics in Physiotherapy II
- Clinical Education IA
- Clinical Education IB
- Electrophysical Agents II
- Social Interaction, Communication & Personality
- Body Systems II
- Neurobiology II
- Biomechanics

Year 3
- Physiotherapy in Neurology II
- Cardiopulmonary Physiotherapy II
- Musculoskeletal Physiotherapy III
- Topics in Physiotherapy III
- Clinical Education H
- Social Theory and Health
- Body Systems III
- Applied Physiology
- Research Methods and Statistics H
- Research and Investigation I

Year 4
- Physiotherapy in Neurology III
- Cardiopulmonary Physiotherapy III
- Musculoskeletal Physiotherapy TV
- Topics in Physiotherapy TV
- Research & Investigation H
- Research & Investigation III
- Clinical Education HIA
- Clinical Education HIB
- Clinical Education HEC
- Health, Medicine & Society
- Health Psychology

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<thead>
<tr>
<th>Year 2</th>
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<tbody>
<tr>
<td>Instrumentation II</td>
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<tr>
<td>Concomitant Strabismus A</td>
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<td>Concomitant Strabismus B</td>
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<td>Disorders of the Visual System HA</td>
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<td>Disorders of the Visual System IIB</td>
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<tr>
<td>Introductory Pathology</td>
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<td>Ocular Biology</td>
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<td>Visual Neurobiology</td>
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<tr>
<td>Behavioural Science II</td>
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<td>Research Methods and Statistics</td>
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<table>
<thead>
<tr>
<th>Year 3</th>
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<tbody>
<tr>
<td>Ocular Motility Disorders I</td>
</tr>
<tr>
<td>Disorders of the Visual System III</td>
</tr>
<tr>
<td>Rehabilitation Studies I</td>
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<tr>
<td>Instrumentation III</td>
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<td>Visual Science I</td>
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<tr>
<td>Elective Study</td>
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<td>Clinical Project</td>
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<table>
<thead>
<tr>
<th>Year 4</th>
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<tbody>
<tr>
<td>Ocular Motility Disorders II</td>
</tr>
<tr>
<td>Disorders of the Visual System IV</td>
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<tr>
<td>Rehabilitation Studies II</td>
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<tr>
<td>Professional Studies</td>
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<td>Professional Elective</td>
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</tbody>
</table>

E.4 - Honours Course (4 year full-time)

Year 1 - As for Pass Course

Year 2 - As for Pass Course

Year 3
- Ocular Motility Disorders I
- Disorders of the Visual System III
- Rehabilitation Studies I
- Instrumentation III
- Visual Science III
- Research Statistics
- Research Proposal
- Clinical Studies III
- Clinical Project (Honours)

Year 4
- Ocular Motility Disorders II
- Disorders of the Visual System IV
- Rehabilitation Studies II
- Professional Studies
- Visual Science IV
- Clinical Studies IV
- Research Thesis
F.2 - Honours Course (commencing 1994)

Year 3

Physiotherapy in Neurology II
Cardiopulmonary Physiotherapy II
Musculoskeletal Physiotherapy III
Topics in Physiotherapy III
Clinical Education II
Social Theory and Health
Body Systems III
Applied Physiology
Research for Physiotherapists
Research Statistics
Research Methods and Statistics II

Year 4

Physiotherapy in Neurology III
Cardiopulmonary Physiotherapy III
Musculoskeletal Physiotherapy IV
Topics in Physiotherapy IV
Clinical Education IIIA
Clinical Education HIB
Clinical Education HIC
Health, Medicine and Society
Health Psychology
Honours Research Seminar
Honours Thesis

Table G - Speech Pathology

G.1 - Pass Course

Year 1

Phonetics I
Linguistics and Language Development
Pre-clinical Practicum
Articulatory and Phonological Disorders
Language Disorders in Children
Clinical Processes
Behavioural Science I
Research Methods I
Biological Sciences IA
Biological Sciences IB

Year 2

Stuttering I
Audiology
Phonetics II
Linguistics II
Speech Pathology Clinical IA
Speech Pathology Clinical IB
Aphasia, Dysarthria, Apraxia
Behavioural Science II
Research Methods II
Biological Sciences II

Year 3

Aphasia
Research in Communication Disorders I
Speech and Language Intervention for Hearing-Impaired children
Voice Science
Speech Pathology Clinical II
Stuttering II
Voice Disorders
Phonetics III
Behavioural Science III
Biological Sciences III

Year 4

Advanced Audiology and Aural Rehabilitation
Speech Pathology Clinical III - Adult
Speech Pathology Clinical HE - Child
Research in Communication Disorders II
Recent Advances in Child Language
Professional Issues
Craniofacial Anomalies
Cerebral Palsy

G.2 - Honours Course

Year 1 - As for Pass Course

Year 2 - As for Pass Course

Year 3

Aphasia
Speech and Language Intervention for Hearing-Impaired Children
Voice Science
Speech Pathology Clinical II - Adult
Speech Pathology Clinical II - Child
Stuttering II
Voice Disorders
Phonetics III
Behavioural Science III
Biological Sciences III
Honours Research Seminar I
Honours Research Methods Individual Studies I
Research in Communication Disorders I

Year 4

Recent Advances in Child Language
Professional Issues
Craniofacial Anomalies
Cerebral Palsy
Advanced Audiology and Aural Rehabilitation
Speech Pathology Clinical III - Adult
Speech Pathology Clinical III - Child
Honours Research Seminar H
Honours Research Methods Individual Studies II
Honours Thesis
Research in Communication Disorders II
G.3 - Pass Course (4 year full-time)

**Year 1**
- Introductory Psychology
- Cognitive and Developmental Psychology
- Research Methods and Statistics I
- Disorders and their Management
- Introductory Human Biology
- Introductory Neurobiology
- Body Systems I
- Speech and Hearing Science
- Neurobiology I
- Linguistics
- Phonetics I
- Professional Development I: Introduction to Clinical Learning
- Stuttering I
- Normal Communication Development

**Year 2**
- Cognitive Neuropsychology I
- Research Methods and Statistics II
- Neurobiology II for Communication Disorders
- Voice Science and Disorders
- Research in Communication Disorders
- Language Impairments in Children I
- Articulation and Phonology
- Professional Development II: Clinical Skills
- Phonetics II
- Audiology
- Speech Impairments of Neurological Origin
- Language Impairments of Neurological Origin I
- Speech Pathology Clinical I

**Year 3**
- Cognitive Neuropsychology II
- Sociology
- Patient Management: Theories and Applications
- Social and Health Psychology
- Neurology for Communication Disorders
- Audiological Management I
- Audiological Management II
- Language Impairments of Neurological Origin II
- Communication Impairments in Special Populations
- Language Impairments in Children II
- Professional Development III: Management Skills
- Stuttering II
- Craniofacial Anomalies
- Clinical Technology
- Speech Pathology Clinical II: Child
- Speech Pathology Clinical II: Adult

**Year 4**
- Advanced Topics
- Professional Development IV: Advanced Issues
- Speech Pathology Clinical III: Child
- Speech Pathology Clinical III: Adult

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**Bachelor of Health Science**

1. The degree of Bachelor of Health Science may be awarded in the grade of Pass degree in:
   - (a) Rehabilitation Counselling
   - (b) Aboriginal Health and Community Development
   - (c) Nursing*
   - (d) Occupational Therapy*
   - (e) Physiotherapy*
   - (f) Medical Radiation Technology *
   * Conversion Courses - Off Shore.

2. (1) The degree of Bachelor of Health Science may be awarded in the grade of Honours degree in:
   - (a) Rehabilitation Counselling
   - (b) Aboriginal Health and Community Development

   (2) There shall be three classes of honours, namely Class I, Class II, and Class III.

   (3) Within Class II there shall be two divisions, namely Division 1 and Division 2.

   (4) If a candidate qualifies for the award of Honours Class I and the Faculty is of the opinion that the candidate's work is of outstanding merit, that candidate shall receive a bronze medal.

3. (1) A subject shall consist of lectures together with such clinical, laboratory and tutorial instruction, practical work, exercises and essays as may be prescribed by the Faculty or the school or department concerned.

   (2) The words 'to complete a subject' and derivative expressions mean:
   - (a) to attend the lectures and the meetings, if any, for clinical, laboratory or tutorial instruction; and
   - (b) to obtain a passing grade for that subject in accordance with the assessment criteria prescribed by the Faculty or the school or department concerned.

   (3) A candidate permitted to re-enrol in a subject which has previously not been satisfactorily completed shall, unless exempted by the Faculty, again complete all the work of the subject.

4. Where in these resolutions a power is given to the Faculty or a Head of School or Department, subject to any express indication to the contrary or resolution passed by the Faculty, the Faculty or a Head of School or Department may, in their discretion, in any particular case:
   - (a) exercise the power,
   - (b) exercise the power conditionally, or
   - (c) decline to exercise the power.

5. (1) A candidate readmitted to candidature for the degree after an absence of more than one year shall complete the degree under such conditions as the Faculty shall determine.

   (2) Except with the permission of the Faculty, on the recommendation of the head of the school or department concerned, a candidate shall not enter a subject unless entry requirements prescribed for that subject have been satisfied.
6. A candidate may be granted credit towards the degree on the basis of a subject or subjects regarded by the Faculty, on the recommendation of the Head of School or Department concerned, as equivalent in workload and academic standard, completed at another university or other tertiary institution, provided the maximum credit granted shall not exceed the equivalent of two-thirds of the degree requirements.

7. A candidate for the Pass degree shall complete the subjects as set out in the following tables in respect of the appropriate degree area.

8. A candidate for the Honours degree shall meet the requirements prescribed by the Faculty for admission to the honours program and shall complete the subjects as set out in the following table.

Table A - Rehabilitation Counselling

<table>
<thead>
<tr>
<th>A.1 - Pass Course</th>
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</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
</tr>
<tr>
<td>Australian Society and Health</td>
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<tr>
<td>Health Research and Ethics</td>
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<tr>
<td>Health and Human Behaviour I</td>
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<tr>
<td>Biological Sciences I</td>
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<tr>
<td>Rehabilitation Theory I</td>
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<tr>
<td>Vocational Rehabilitation I</td>
</tr>
<tr>
<td>Disability Studies I</td>
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<tr>
<td><strong>Year 2</strong></td>
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<tr>
<td>Health Promotion</td>
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<tr>
<td>Epidemiology</td>
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<tr>
<td>Health and Human Behaviour II</td>
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<tr>
<td>Biological Sciences II</td>
</tr>
<tr>
<td>Rehabilitation Theory II</td>
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<tr>
<td>Rehabilitation Counselling II</td>
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<tr>
<td>Vocational Rehabilitation II</td>
</tr>
<tr>
<td>Disability Studies II</td>
</tr>
<tr>
<td><strong>Year 3</strong></td>
</tr>
<tr>
<td>Health Planning, Policy and Evaluation</td>
</tr>
<tr>
<td>Contemporary Issues in Health, Law and Medicine</td>
</tr>
<tr>
<td>Social Research</td>
</tr>
<tr>
<td>Biological Sciences III</td>
</tr>
<tr>
<td>Special Project</td>
</tr>
<tr>
<td>Rehabilitation Counselling III</td>
</tr>
<tr>
<td>Vocational Rehabilitation III</td>
</tr>
<tr>
<td>Disability Studies III</td>
</tr>
</tbody>
</table>

A.2 - Honours Course

**Year 1 and Year 2 - As for Pass Course**

**Year 3 - As for Pass Course**

PLUS

one Research Elective from:

- Advanced Research Methods
- Quantitative Research Methods
- Epidemiological Research
- Evaluation Research
- Qualitative Research Methods
- History and Philosophy of Scientific Methodology

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Table B - Aboriginal Health and Community Development

<table>
<thead>
<tr>
<th>B.1 - Pass Course (3 year full-time)</th>
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</thead>
<tbody>
<tr>
<td><strong>Year 1</strong></td>
</tr>
<tr>
<td>Australian Society and Health</td>
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<tr>
<td>Health Research and Ethics</td>
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<tr>
<td>Health and Human Behaviour I</td>
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<tr>
<td>Biological Sciences I</td>
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<tr>
<td>Aboriginal Studies I</td>
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<tr>
<td>Community Development I</td>
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<tr>
<td>Counselling I</td>
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<tr>
<td>Health I</td>
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<tr>
<td>Field Experience I</td>
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<tr>
<td><strong>Year 2</strong></td>
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<tr>
<td>Health Promotion</td>
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<tr>
<td>Epidemiology</td>
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<tr>
<td>Health and Human Behaviour II</td>
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<tr>
<td>Biological Sciences II</td>
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<td>Aboriginal Studies II</td>
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<tr>
<td>Community Development II</td>
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<td>Counselling II</td>
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<tr>
<td>Health II</td>
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<tr>
<td>Field Experience II</td>
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<tr>
<td><strong>Year 3</strong></td>
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<tr>
<td>Health Planning, Policy and Evaluation</td>
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<tr>
<td>Contemporary Issues in Health, Law and Medicine</td>
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<td>Social Research</td>
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<tr>
<td>Biological Sciences III</td>
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<td>Aboriginal Studies III</td>
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<td>Community Development III</td>
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<tr>
<td>Counselling III</td>
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<tr>
<td>Health m</td>
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<tr>
<td>Field Experience III</td>
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</tbody>
</table>

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6. A candidate may be granted credit towards the degree on the basis of a subject or subjects regarded by the Faculty, on the recommendation of the Head of School or Department concerned, as equivalent in workload and academic standard, completed at another university or other tertiary institution, provided the maximum credit granted shall not exceed the equivalent of two-thirds of the degree requirements.

7. A candidate for the Pass degree shall complete the subjects as set out in the following tables in respect of the appropriate degree area.

8. A candidate for the Honours degree shall meet the requirements prescribed by the Faculty for admission to the honours program and shall complete the subjects as set out in the following table.
B.2 - Honours Course (4 year full-time)

**Year 1** - As for Pass Course

**Year 2** - As for Pass Course

**Year 3**
- Health Planning Policy and Evaluation
- Contemporary Issues in Health, Law and Medicine
- Social Research
- Biological Sciences in
- Aboriginal Studies III
- Community Development III
- Special Project
- Counselling III
- Health I E
- Field Experience III
- Research Elective

**Year 4**
- Honours Workshop
- Thesis
- Research Elective

B.3 - Pass Course (4 year full-time, block attendance)

**Year 1**
- Australian Society and Health
- Health and Human Behaviour I
- Biological Sciences I
- Aboriginal Studies I
- Community Development I
- Health I
- Field Experience I

**Year 2**
- Health Promotion
- Introduction to Health Research and Ethics
- Health and Human Behaviour II
- Biological Sciences II
- Aboriginal Studies II
- Counselling I
- Field Experience II

**Year 3**
- Epidemiology
- Social Research
- Aboriginal Studies m
- Community Development II
- Counselling II
- Health E

**Year 4**
- Health Planning Policy and Evaluation
- Health Research Law and Ethics
- Biological Sciences III
- Community Development III
- Counselling III
- Health III
- Field Experience III

B.4 - Honours Course (5 year full-time)

**Year 1** - As for Pass Course

**Year 2** - As for Pass Course

**Year 3** - As for Pass Course

**Year 4**
- Health Planning Policy and Evaluation
- Health Research Law and Ethics
- Biological Sciences III
- Community Development III
- Counselling III
- Health III
- Research Elective

**Year 5**
- Honours Workshop
- Thesis
- Research Elective

Table C - Nursing*, Physiotherapy*, Occupational Therapy*, Medical Radiation Technology*

(* Off-Shore Singapore Conversion Course)

C.1 - Common Subjects (2 years part-time)

**Years 1 and 2**
- The Nature of Health Care Delivery
- Ethical Dimensions of Health Care Delivery
- Psychology of Teaching and Learning
- Research Methods 1
- The Legal Perspective
- Patient/Client Education
- Research Methods 2
- Pathophysiology
- Sociology of Work and Organisations
- Financial Management in the Health Services
- Sociology of Client/Practitioner Relationships

C.2 - Nursing

**Common Subjects**

PLUS
- Health Assessment
- Management in Nursing
- Advanced Clinical Studies

C.3 - Occupational Therapy

**Common Subjects**

PLUS
- Occupational Therapy Theory and Process A
- Occupational Therapy Theory and Process B
- Advanced Evaluation of Occupational Therapy Programs
Master Degrees

Subject areas

1. (1) The degree of Master of Applied Science may be taken in the following subject areas:
   (i) Behavioural Health Sciences
   (ii) Cardiopulmonary Physiotherapy
   (iii) Communication Sciences & Disorders
   (iv) Exercise and Sport Sciences
   (v) Health Information Management
   (vi) Human Biomedical Sciences
   (vii) Manipulative Physiotherapy
   (viii) Medical Radiation
   (ix) Neurological Physiotherapy
   (x) Occupational Health
   (xi) Occupational Therapy
   (xii) Orthoptics
   (xiii) Paediatric Physiotherapy
   (xiv) Physiotherapy
   (xv) Sports Physiotherapy.

2. The degree of Master of Health Science may be taken in the following subject areas:
   (i) Community Health
   (ii) Gerontology
   (iii) Rehabilitation Counselling
   (iv) Education.

3. The degree of Master may be taken in the following subject areas:
   (i) Behavioural Health Science
   (ii) Child and Adolescent Health
   (iii) Communication Disorders
   (iv) Community Health
   (v) Health Science Education
   (vi) Gerontology
   (vii) Rehabilitation Counselling.

Eligibility for admission

2. (1) The Faculty, may, on the recommendation of the Head of the Department or School concerned, admit to candidacy for a degree of Master within the Faculty an applicant who:
   (a) is a graduate of the University of Sydney;
   (b) has completed courses appropriate to the area of study in which the applicant seeks to proceed, provided that the applicant's work is of sufficient merit; and
   (c) has submitted evidence of general and professional qualifications to satisfy the Faculty that the applicant possesses the educational preparation and capacity to pursue graduate studies, has the appropriate time available and meets any additional requirements for admission to a particular program that have been prescribed by the Faculty.

(2) Notwithstanding subsection (1), the Academic Board may admit a person to candidacy in accordance with the provisions of Chapter 10 of the By-laws.

Availability

3. Admission to candidacy for any Master's degree or any program within a Master's degree may be limited by quota.

4. In determining any quota the University will take into account:
   (a) availability of resources including space, library, equipment and computing facilities; and
   (b) availability of adequate and appropriate supervision, including both the supervision of research candidatures and the coordination of coursework programs.

5. In considering an application for admission to candidacy the Faculty shall take account of any quota and will select in preference applicants who are most meritorious in terms of section 2 above.

6. Before recommending the admission of any applicant the Head of the Department or School concerned shall ensure that the extent of the resources and supervision available is known to and understood by the applicant and is appropriate to the applicant's proposed area of study and research.

Preliminary studies

7. (1) An applicant may be required to undertake preliminary or qualifying studies, and complete such preliminary examinations as the Faculty may prescribe, before admission to candidacy.

(2) Such an applicant shall complete the preliminary studies in not less than one semester and in not greater time than the Faculty may prescribe but in any case in not longer than two years.

Probationary admission

8. A candidate may be accepted by the Faculty on a probationary basis for a period not exceeding twelve months and upon completion of this period the Faculty shall review the candidate's work and shall either confirm the candidate's status with effect from the date of the original acceptance or terminate the candidature.

Method of progression

9. A candidate shall proceed:
   (a) primarily by research and thesis; or
   (b) by coursework and thesis; or
   (c) primarily by coursework.
### Time limits

10. A candidate may be admitted to proceed on either a full-time basis or a part-time basis.

11. (1) Except as provided in section 11(3) below:
   (a) a full-time candidate proceeding primarily by research and thesis shall complete the requirements not earlier than the end of the fourth semester and not later than the end of the sixth semester of candidature;
   (b) a full-time candidate proceeding primarily by coursework shall complete the requirements not earlier than the end of the third semester and not later than the end of the sixth semester of candidature;
   (c) a part-time candidate proceeding either primarily by research and thesis or by coursework shall complete the requirements not earlier than the end of the sixth semester and not later than the end of the tenth semester of candidature.

(2) The Faculty may, in special circumstances extend a candidate's maximum period of candidature and may prescribe special conditions to be fulfilled by the candidate;

(3) The Faculty, at the time of admission to candidature, may permit a candidate proceeding primarily by research and thesis who holds a bachelor degree with first or second class honours from the University of Sydney or an equivalent qualification to complete the requirements not earlier than the end of the first year of candidature if a full-time candidate and not earlier than the end of the second year of candidature if a part-time candidate.

### Credit

12. (1) The Faculty may, in respect of a candidate who before admission to candidature has spent time in advanced study or research in the University of Sydney or in another university or institution:
   (a) deem such time to have been time spent after admission to candidature; and
   (b) grant credit towards the degree on the basis of a course or courses regarded as equivalent in workload and academic standard; provided that the time recognised or the credit granted represents no more than half of the total candidature and that any attendance requirements as may be prescribed by resolution of the Faculty are met.

(2) The Faculty may, under specific conditions prescribed by resolution of the Faculty, grant credit additional to that specified in subsection (1)(b) to holders of Graduate Diplomas awarded by the Faculty.

### Supervision

13. (1) The Faculty shall appoint, on the recommendation of the Head of the Department or School concerned, a full-time member of the academic staff of the Faculty to act as supervisor of each candidate proceeding primarily by research and thesis or by coursework and thesis and may appoint, for each such candidate, an advisory committee.

(2) The Faculty shall appoint, on the recommendation of the Head of the Department or School concerned, a full-time member of the academic staff of the Faculty to act as supervisor or advisor, as thought most appropriate for each candidate proceeding primarily by coursework.

(3) The Faculty may appoint, on the recommendation of the Head of the Department or School concerned, from amongst appropriately qualified persons, an associate supervisor to assist in the supervision of any candidature.

### Enrolment

14. (1) A candidate shall, unless otherwise permitted by the Faculty, enrol each year until the requirements for the degree are completed or the candidature terminated.

(2) A candidate readmitted to candidature after an absence of more than one year shaft complete the degree under such conditions as the Faculty shall determine.

### Requirements for the degree

15. A candidate for the degree proceeding primarily by coursework shall complete the courses for the degree as prescribed by the Faculty and set out in tables of courses.

16. (1) A candidate for the degree proceeding primarily by research and thesis or by coursework and thesis shall:
   (a) complete the courses for the degree as prescribed by the Faculty and set out in tables of courses;
   (b) carry out supervised research on a topic which has been approved by the Faculty on the recommendation of the head of the department or school concerned no later than the end of the second semester of full-time candidature or the third semester of art-time candidature;
   (c) write a thesis embodying the results of the research; and in completion of the requirements for degree lodge with the Registrar three copies of the thesis, typewritten and bound in either a temporary or permanent form.

(2) Theses submitted in a temporary binding should be strong enough to withstand ordinary handling and postage and the preferred form of temporary binding is the 'Perfect Binding' system; ring-back or spiral binding is not acceptable. Theses submitted in a temporary form shall have fixed to the cover a label clearly identifying the name of the candidate, the title of the thesis, and the year of submission.
(3) Theses submitted in a bound form shall normally be on International Standard A4 size paper sewn and bound in boards covered with bookcloth or buckram or other binding fabric. The title of the thesis, the candidate’s initials and surname, the title of the degree, the year of submission and the name of the University of Sydney should appear in lettering on the front cover or on the title page. The lettering on the spine, reading from top to bottom, should conform as far as possible to the above except that the name of the University of Sydney may be omitted and the thesis title abbreviated. Supporting materials should be bound in the back of the thesis as an appendix or in a separate set of covers.

(4) The degree shall not be awarded until the candidate has caused at least two copies of the thesis (containing any corrections or amendments that may be required) to be bound in a permanent form.

(5) The candidate shall state in the thesis the sources from which the information was derived, the extent to which the work of others has been used and the portion of the work claimed as original.

(6) The thesis shall be accompanied by a statement from the supervisor stating whether, in the supervisor’s opinion, the form of presentation of the thesis is satisfactory.

(7) A candidate may not present as a thesis a work which has been presented for a degree in this or another university, but will not be precluded from incorporating such in the thesis provided that in presenting the thesis the candidate indicates the part of the work which has been so incorporated.

17. On completion of the requirements for the degree by a candidate proceeding primarily by research and thesis or by coursework and thesis, the Faculty, on the recommendation of the head of the department or school concerned, shall appoint two examiners, of whom one shall not be a member of the academic staff of the Faculty, to examine and report on the thesis.

18. The reports of the examiners shall be made available to the head of the department or school concerned who shall consult with the supervisor.

19. The head of the department or school concerned shall report the result of the examination of the candidature together with a recommendation concerning the award of the degree to the Faculty Board which shall determine the result.

20. In special cases the Faculty may, on the recommendation of the head of the department or school concerned, require the candidate to take a further examination in the area of the thesis which may be an oral examination to be held at the College or at such other location as may be determined by the Faculty.

21. The Faculty may permit an unsuccessful candidate to revise and resubmit the thesis for re-examination if, in the opinion of the head of the department or school concerned the candidate’s work is of sufficient merit, and may prescribe special conditions to be fulfilled by the candidate.

22. On the completion of the requirements for the degree by a candidate proceeding primarily by coursework the head of the department or school concerned shall report the results of the examination of the coursework to the Faculty which shall determine the result of the candidature.

Progress

23. (1) A report on the progress towards completion of the requirements for the degree shall be prepared by the appointed supervisor at least annually in respect of each candidate proceeding primarily by research and thesis or by coursework and thesis.

(2) The report shall be shown to the candidate and the candidate shall sign the report as having sighted the contents.

(3) The report, after signature by the candidate, shall be forwarded to the Faculty through the head of the department or school concerned.

24. The Faculty may, on the recommendation of the head of the department or school concerned, call upon any candidate to show cause why that candidature should not be terminated by reason of unsatisfactory progress towards completion of the degree and where, in the opinion of the Faculty, the candidate does not show good cause, terminate the candidature.

Diploma of Applied Science, Diploma of Health Science

1. (1) The Diploma of Applied Science may be awarded in the area of:
   (a) Diversional Therapy.
   (2) The Diploma of Health Science may be awarded in the areas of:
      (a) Aboriginal Health and Community Development.

2. (1) A subject shall consist of lectures together with such clinical, laboratory and tutorial instruction, practical work, exercises and essays as may be prescribed by the Faculty or the school or department concerned.

(2) The words ‘to complete a subject’ and derivative expressions mean:
   (a) to attend the lectures and the meetings, if any, for clinical, laboratory or tutorial instruction; and
   (b) to obtain a passing grade for that subject in accordance with the assessment criteria prescribed by the Faculty or the school or department concerned.

(3) A candidate permitted to re-enrol in a subject which has previously not been satisfactorily completed shall, unless exempted by the Faculty, again complete all the work of the subject.

3. Where in these resolutions a power is given to the Faculty or a head of school or department, subject to any express indication to the contrary or resolution passed by the Faculty, or a head of school or department may, in their discretion, in any particular case:
   (a) exercise the power,
   (b) exercise the power conditionally, or
   (c) decline to exercise the power.
Diploma of Applied Science
A. Diversional Therapy

**Year 1**
- Behavioural Science I
- Biological Sciences I
- Client Care and Management I
- Recreational Activities I
- Diversional Therapy Facilitation Skills I
- Professional Practice I
- Field Experience I

**Year 2**
- Behavioural Science II
- Biological Sciences II
- Client Care and Management II
- Diversional Therapy Facilitation Skills II
- Professional Practice II
- Recreational Activities II
- Integrated Studies II
- Field Experience II

Diploma of Health Science
A. Aboriginal Health and Community Development

**Year 1**
- Aboriginal Studies I
- Communication Skills I
- Community Care I
- Community Development I
- Counselling I
- Drugs and Alcohol I
- Emergency Care I
- Management Skills I

2. (1) A candidate readmitted to candidature for the diploma after an absence of more than one year shall complete the diploma under such conditions as the Faculty shall determine.

(2) Except with the permission of the Faculty, on the recommendation of the head of the school or department concerned, a candidate shall not enter a subject unless entry requirements prescribed for that subject have been satisfied.

5. A candidate may be granted credit towards the diploma on the basis of a subject or subjects regarded by the Faculty, on the recommendation of the head of the school or department concerned, as equivalent in workload and academic standard, completed at another university or other tertiary institution, provided the maximum credit granted shall not exceed the equivalent of two-thirds of the diploma requirements.

6. A candidate for the diploma shall complete the subjects as set out in the following tables in respect of the appropriate diploma area.

Graduate Diplomas and Graduate Certificates

**Subject areas**

1. The Graduate Diploma of Applied Science may be taken in the following subject areas:
   - (i) Cardiopulmonary Physiotherapy
   - (ii) Health Information Management
   - (iii) Manipulative Physiotherapy
   - (iv) Neurological Physiotherapy
   - (v) Medical Ultrasonography
   - (vi) Occupational Health
   - (vii) Paediatric Physiotherapy
   - (viii) Sports Physiotherapy.

2. A Graduate Diploma may be taken in the following subject areas:
   - (i) Behavioural Health Science
   - (ii) Child and Adolescent Health
   - (iii) Community Health
   - (iv) Exercise and Sport Sciences
   - (v) Gerontology
   - (vi) Health Science Education
   - (vii) Rehabilitation Counselling.

3. The Graduate Certificate of Applied Science may be taken in the following subject areas:
   - (i) Medical Ultrasonography
   - (ii) Occupational Therapy.

4. A Graduate Certificate may be taken in the following area:
   - (i) Behavioural Health Science
   - (ii) Child and Adolescent Health
   - (iii) Health Science Education.

Eligibility for admission

2. (1) The Faculty, may, on the recommendation of the head of the department or school concerned, admit to candidature for a graduate diploma or graduate certificate within the Faculty an applicant who is:
   - (a) a graduate of the University of Sydney;
   - (b) has completed courses appropriate to the area of study in which the applicant seeks to proceed, provided that the applicant’s work is of sufficient merit; and
has submitted evidence of general and professional qualifications to satisfy the Faculty that the applicant possesses the educational preparation and capacity to pursue graduate studies, has the appropriate time available and meets any additional requirements for admission to a particular program that have been prescribed by the Faculty.

(2) Notwithstanding subsection (1), the Academic Board may admit a person to candidacy for the graduate diploma or graduate certificate in accordance with the provision of Chapter 10 of the by-laws.

Availability

3. Admission to candidacy for a graduate diploma or graduate certificate or any program within those diplomas or certificates may be limited by quota.

4. In determining any quota the University will take into account:
   (a) availability of resources including space, library, equipment and computing facilities; and
   (b) availability of adequate and appropriate supervision, including both the supervision of research candidatures and the coordination of coursework programs.

5. In considering an application for admission to candidacy the Faculty shall take account of any quota and will select in preference applicants who are most meritorious in terms of section 2 above.

6. Before recommending the admission of any applicant the head of the department or school concerned shall ensure that the extent of the resources and supervision available is known to and understood by the applicant and is appropriate to the applicant's proposed area of study and research.

Preliminary studies

7. (1) An applicant may be required to undertake preliminary or qualifying studies, and complete such preliminary examinations as the Faculty may prescribe, before admission to candidacy.
   
   (2) Such an applicant shall complete the preliminary studies in not less than one semester and in not greater time than the Faculty may prescribe but in any case in not longer than two years.

Probationary admission

8. A candidate may be accepted by the Faculty on a probationary basis for a period not exceeding twelve months and upon completion of this period the Faculty shall review the candidate's work and shall either confirm the candidate's status with effect from the date of the original acceptance or terminate the candidature.

Time limits

9. A candidate may be admitted to proceed on either a full-time basis or a part-time basis.

Credit

10. (1) The Faculty may, in respect of a candidate who before admission to candidacy has spent time in advanced study or research in the University of Sydney or in another university or institution:
   (a) deem such time to have been spent after admission to candidacy; and
   (b) grant credit towards the graduate diploma or graduate certificate on the basis of a course or courses regarded as equivalent in workload and academic standard; provided that the time recognised or the credit granted represents no more than half of the total candidature and that any attendance requirements as may be prescribed by resolution of the Faculty are met.

Enrolment

11. (1) A candidate shall, unless otherwise permitted by the Faculty, enrol each year until the requirements for the graduate diploma or graduate certificate are completed or the candidature terminated;
   (2) A candidate readmitted to candidacy after an absence of more than one year shall complete the graduate diploma or graduate certificate under such conditions as the Faculty shall determine.

Requirements of the Degree

12. A candidate for the graduate diploma or graduate certificate shall complete the courses for the graduate diploma or graduate certificate as prescribed by the Faculty and set out in the table of courses.

13. On completion of the requirements for the graduate diploma or graduate certificate the head of the department or school concerned, shall report the results of the examination of the coursework to the Faculty which shall determine the results of the candidature.

Progress

14. The Faculty may, on the recommendation of the head of the department or school concerned, call upon any candidate to show cause why that candidature should not be terminated by reason of unsatisfactory progress towards completion of the graduate diploma or graduate certificate and where, in the opinion of the Faculty, the candidate does not show good cause, terminate the candidature.
10551 Developing a Research Project

**Pre-requisite** Research Methods I and II or equivalent.

This subject is for post-graduate students who have previously studied research methods at the undergraduate level and who are in the initial stages of developing a research project. The subject will provide an overview of the research process and focus on the formulation of a research proposal. It will provide students with an opportunity to review and update their knowledge of research methods, and introduce the research electives which concentrate on a particular methodology or aspect of the research process. Basic research design issues will be considered. Various methods of data collection will be examined together with their suitability for investigating different types of research questions. Students will explore the use of quantitative and qualitative data, longitudinal and cross-sectional designs, and data resulting from experimental interview, observation, single case and survey research methods in addition to content analysis and secondary data analysis. Emphasis will be placed on the issues of validity and reliability of data collection techniques. Basic statistical procedures will be briefly reviewed and applications such as epidemiology and evaluation research will be introduced.

15479 Research Design and Methods for Therapists

**42 hours**

The purpose of this subject is to explore a variety of research designs, research methods and related issues appropriate to applied research. The exploration will be accomplished through student led seminar discussions of selected readings and each student will develop a research proposal on a topic of their choice. Content will include such things as: an overview of appropriate research designs, strengths and weaknesses of a broad selection of designs and methods, reliability and validity, selection of a study population, research ethics, development of research statements and questions, proposal writing, and the use of computers and other technology in research.

15465 Single System Research Design and Evaluation Methods

The purpose of this subject is to explore the applications of systematic research and evaluation methods through single systems design. Students will have the opportunity to design a single system project which is appropriate to their work setting. In doing this, the following will be covered: comparison of traditional and single system research methods; measurement and recording procedures associated with single system evaluation and research; and visual and statistical analysis of single system data.

10552 Group and Single Case Experimental Research in Clinical Settings

This subject concerns experimental designs and analyses suitable for evaluating the effectiveness of clinical interventions. Applications for evaluating data obtained from single cases and groups of clients will be considered.

11501 Biological Measurement and Analysis

This subject is a study in measurement, recording and analysis of biological signals, Concepts in the nature of biological signals, their transduction, storage and display, are presented and worked on within the students' own specific research application.

16505 Research Elective Independent Study

(for Physiotherapy Research students only)

This subject will function as an independent study program. As with other research elective subjects, it allows students to pursue a specific area of study related to the development of knowledge and skills in a specific area of research methodology in preparation for their research thesis.
Electives

08432 Independent Investigation I
In this elective subject, individual participants can pursue an in-depth study of an educational issue of their choice. The participant will complete a personal learning contract under the supervision of a teacher.

08434 Student Assessment, Evaluation and Development
Participants examine the role and methods of student assessment and evaluation in health science curricula. This includes developing skills in valid and reliable assessment and evaluation of student performance.

08440 Health Promotion
This subject provides an introduction to the principles and processes of major approaches to health promotion.

08441 Programme Planning and Evaluation
The aim of this subject is to examine factors and elements involved in the process of planning and evaluating community health programmes.

08445 Women’s Health
This subject seeks to examine the pattern and sources of women’s health in Australia and to critically evaluate health care services for women.

08446 Aboriginal Health
This subject provides an introduction to Aboriginal health. It is designed to give students a critical understanding of the historical, social, political and economic factors which have impacted on Aboriginal health, along with an awareness of Aboriginal culture.

08447 Migrant and Refugee Health
This subject seeks to analyse the pattern of migrant and refugee health and illness in Australia and to critically examine the sources of it. In addition, the course attempts to outline and evaluate the response of the Australian health care system to migrants and refugees.

08449 Issues in Community Mental Health
This subject is designed to give students an understanding of factors affecting mental health and the provision of community mental health services. It has two main foci: the complex factors involved in achieving integrated service networks, and those involved in providing rehabilitation for people with chronic mental health problems.

08450 Occupational Health and Safety
This subject examines the prevalence of occupational illness and hazards resulting from work organisation in Australia and critically evaluates major responses to it.

08452 Drug and Alcohol Studies
This course introduces students to the issues surrounding drug and substance abuse within the community. Students are expected to examine such issues as the social and psychological bases of drug abuse and social reactions to such use. Students will develop knowledge of the variety of approaches to drug use and abuse including rehabilitation strategies and police and court practices.

08453 Health in the Developing World
This subject is designed to provide students with an understanding of the major health issues and related socioeconomic characteristics of developing countries, in particular Australia’s neighbours in the Pacific and Southeast Asian region. Topics include the historical and contemporary factors which have shaped the morbidity and mortality patterns of these countries, the relationship of health status and health care to development, the principles and processes of planning, implementing and evaluating primary health care programs at the village level, experience of, and the role of aid agencies in the Third World.

08456 Legal and Ethical Issues in Community Health
This subject examines legal and ethical issues which can arise in community health practice.

08457 Community Nutrition
This subject aims to increase knowledge and develop skills of allied health professionals concerning the theory and methods of community nutrition practice and service delivery. A major goal is to enable students to identify and utilise opportunities for appropriate development and integration of community nutrition services within the general health services in which they work.

08466 Independent Investigation II
In this elective subject, individual participants can pursue an in-depth study of an educational issue of their choice. The participant will complete a personal learning contract under the supervision of a teacher.

08470 Mental Health in Later Life
The subject aims to provide a broad understanding of factors affecting mental health in later life and the opportunity for in-depth study of an area of professional relevance.

08476 Law, Ethics and the Rights of Older People
The aim of this subject is to examine aspects of law and ethics which may affect the lives of older people and to identify the rights of older people in particular circumstances.
08481 Introduction to Health Education
Participants explore national and international policies and perspectives influencing health education, and look at ways these have been translated into strategies for intervention. Participants will develop knowledge about some of the theories and models that underpin health education and begin to develop skills using these to plan interventions.

08482 Large Group Teaching
Large group teaching is a common method of education. Doing it well is a challenge. In this subject participants will increase their knowledge and skills about ways to work with large groups more effectively.

08483 Introduction to Gerontology
This subject aims to provide students with an understanding of gerontology as a unique matrix of disciplines and perspectives focused on the interaction of individual and social processes of ageing and on the dynamics of ageing populations. Through analysis of specific "problem areas", such as ill-health and retirement, it demonstrates the need for integration of various academic disciplines and professional applications in the study of ageing and older people.

08488 Counselling Theory and Practice
This subject provides the opportunity for students to develop essential knowledge, attitudes and skills appropriate to establishing an effective helping relationship with clients. Students are introduced to the major theoretical positions and are given personal experience with a variety of counselling procedures.

08490 Community Development
This subject has been designed to give students the knowledge and skills to design, plan and evaluate community development projects. Methods of obtaining involvement for maximum benefit of communities are examined.

084AO Distance Learning
Participants in this subject will investigate contemporary distance education policies and practice and develop their ability to select policy and practice options which best fit a set of specific client needs. As part of their studies they will also investigate one or more delivery media and critically evaluate its contribution to the teaching/learning situation for a specified situation. Throughout the unit they will be expected to draw on their understanding of instructional design and adult education principles.

08513 Current Issues in Education in the Health Sciences
This elective is only available to those students not intending to complete the Master of Health Science Education. Participants will undertake a series of workshops and literature review to explore at least three specific issues of interest.

08514 Introduction to Educational Computing
This subject examines the conceptual and technological developments in educational computing and their use and impact on health science education. Participants will learn to apply concepts and skills of educational computing to their own educational settings, including selecting appropriate courseware and developing a small Computer-Assisted Learning package. (Some basic computer skills would be an advantage). Class size will be limited by the number of computers available.

08515 Teaching with Reduced Resources
This subject tackles the perplexing issues to do with providing effective learning experiences in the face of shrinking resources in education.

08520 Clinical Teaching and Supervision
In this subject participants explore aspects of clinical teaching and the way clinical teachers relate to students and patients/clients in the clinical learning environment. Participants develop knowledge and skills in such areas as clinical teaching strategies and assessment, the role of the supervisor and ways to promote effective student interaction.

08521 Introduction to Community Health Policy and Services
This subject introduces students to the concept of "social health" and explains the connections between ill-health and social disadvantage.

08522 Introduction to Epidemiology and Biostatistics
This subject introduces students to the principles on epidemiology and their application to community health problems.

08523 Australian Society and Health
This subject examines the historical development on approaches to illness management and health promotion in Australia, with particular emphasis on the role of the State in policy-making, legislation and service delivery in health and health-related areas.
08552 Computers for Teacher Productivity
This subject provides opportunities for participants to explore and develop skills in the ways computers are used to enhance the productivity of health science educators. It focuses on the selection and use of the appropriate computer application software to create written and graphic teaching materials, create databases and spreadsheets for teaching administration purposes, search journal databases stored on CD-ROM, and explore the functions and implications of academic computer research networks. Class size will be limited by the number of computers available.

09429 Financial Management in Health Care Facilities
Semester 1-28 hours
This subject has been designed to develop the student's understanding of the general principal of financial management in health services and to provide practice in a number of skills of financial management relevant to the administration of medical record services in a health care facility.

09430 Computer Applications in Health Care
Semester 1-28 hours
This subject is designed to examine hospital information systems in the wider context of computers in information management and in clinical management. This subject covers new developments in computer and communication technology and their application in health care systems.

09464 Evaluation of Quality in Health Care
Semester 2-28 hours
In this subject students are introduced to the concepts of quality in health care and methods of health care evaluation. Topics covered include: structure, process and outcome measures; traditional quality evaluation techniques such as criteria audit, peer review and utilisation review; examination of variations in medical and surgical care; the development and calculation of quality indicators; methods of consumer evaluation of health care. Elements of an effective quality evaluation program and sources of information for use in evaluation are discussed. Industrial approaches to the evaluation of quality adapted for use in health, such as total quality management (TQM) are covered. In addition the evaluation of health care technologies, methods of changing health provider behaviour, health care accreditation and quality evaluation for health information services are included.

10452 Multicultural Issues in Gerontology
This subject examines what it means to be old in a country whose language, expectations for aged behaviour and types of support available, differ from those of their country of origin. The impact of immigration policy and services provision will be analysed.

10517 Abnormal Psychology and Mental Health
This elective addresses major psychological disorders and the current classificatory and diagnostic systems available. Critiques of nosologies and taxonomies will be provided and alternative individualised systems of assessment useful for research will be discussed. Detailed consideration of the major philosophical questions underpinning current approaches to psychotherapy will be encouraged, including such concepts as person, personality, mental illness, theories of the origin of mental illness and treatment approaches. A critical review of ethical and legal dilemmas in the practices of psychotherapy will be highlighted.

10518 Behaviour Modification and Cognitive Behavioural Therapy
This elective will cover the basic principles of learning theory and their applications to research in health care settings in conjunction with a theoretical introduction to the use of cognitive behavioural therapy. Students will learn to develop programs based on reinforcement principles, such as operant and classical conditioning, extinction, shaping, maintenance and generalisation of the behaviour, stimulus discrimination training and fading, cognitive behaviour modification and assertiveness training, a behavioural model of somatic disorders and behavioural intervention in rehabilitation.

10519 Biofeedback
This elective covers the history of the development of biofeedback research, and considers the range of biofeedback modalities used in therapy to alleviate physical health problems. The main modalities examined are those related to the electromyograph, skin temperature, GSR, and the electroencephalograph. Other areas also considered include blood pressure, heart and respiration rate, blood sugar levels, and incontinence. Recent research, exploring other areas, is critically examined.

10520 Cognitive Function in Neurological Disorders
This elective will consider the principles of cognitive function applied to a range of neurological disorders (e.g. Alzheimer's disease, amnesic disorders, developmental disability). The emphasis will be on understanding cognitive impairments and considering strategies for managing these impairments.
10521 Counselling Skills
This elective will cover the major theories of counselling and their applications to health professional practice. Issues related to the role of counselling in the delivery of health care and the ethical and legal implications of a counselling relationship will be addressed. It also promotes student self-awareness and exploration of their life histories and interpersonal styles, focusing on the implications of these for relating to and doing research with various client groups. Students will be introduced to basic counselling techniques of attending, listening, responding appropriately to clients and questioning techniques. They will learn advanced accurate empathy, confrontation and development of action plans. Further, they will learn techniques of evaluating the success of the counselling process. They will be encouraged to develop their own personal styles in a coherent theoretical framework in relating to clients in a variety of settings, and according to client needs e.g. bereavement counselling, drug and alcohol counselling, crisis intervention, sexual assault, family counselling, and counselling the physically disabled and their relatives. Different models and theories of counselling presented will permit flexible application of these skills to different clients.

10522 Critical Thinking
This elective considers the development of critical thinking skills in the areas of problem solving, decision making, creative thinking, logical thinking, and developing argument. Research is reviewed and critically appraised.

10523 Cultural Approaches to Disease and Healing and Ethnographic Analysis
This elective promotes cross-cultural analysis of the relationship between culture, social structure and beliefs and practices relating to the management of illness and disease. Systematic analysis is encouraged of a wide range of empirical material addressing cultural approaches to disease and health from both pre-industrial and contemporary western settings. Possible research issues are covered addressing anthropology's early concern with indigenous belief systems and current post-modern concern with the representation of these beliefs, the ecological and epidemiological aspects of disease, and a broad spectrum of theories of disease etiology, diagnosis and therapy. A transcultural perspective analyses the philosophical underpinnings of both traditional and contemporary healing systems, and emphasises similarities and differences from the biomedical perspective, and considers the impact of Western medicine on Third World societies. A political economy approach examines health status and level of health care experienced by different populations, and the potential for research into the social, cultural, economic and political conditions of particular regions to understand their relationship with the world capitalist system.

10524 Health Policy and Social Theory
Contemporary social theorists have noted an increase in the rate of policy change in health services. Students will examine possible research topics concerning the determinants and implications of past and present policy changes in health services.

10525 HIV/AIDS: Health and Social Services
This subject is designed to give students a comprehensive introduction to the medical, health and social aspects of HIV disease. It considers epidemiology, prevention, support services, relevant political and legal issues, occupational health and safety procedures. The subject also investigates how specialist health workers can assist people living with HIV/AIDS.

10526 Introduction to Medical Anthropology
This elective provides an overview of the concepts used in medical anthropology in terms of its current understandings and perspectives as a new sub-discipline. Particular emphasis is given to the analysis that has accompanied the development in medical anthropology of the cultural categories that mediate and sustain western medicine.

10527 Occupational Health and Stress
This elective examines Occupational Health and Safety (OHS) issues within the context of social, economic and political processes and structures. Particular emphases will be placed on OHS as an industrial relations issue, state intervention in OHS policies and the role of the medical and legal professions. Factors which affect occupational performance, experience and satisfaction, health and well-being will be considered, and reference made to studies attempting to explore and modify stress in various organisations, with a view to original research. A range of research topics concerning work performance are encompassed in this elective: work motivation and satisfaction, health and well-being will be critically appraised.

10528 Post Trauma Stress
This elective traces the history of reactions to traumatic events, including the acceptance of a syndrome known as post traumatic stress syndrome in recent years. Various disorders with similar characteristics are compared and contrasted and the research and clinical literature presented. Current views on the treatment and evaluation of post traumatic disorders are presented and appraised.
10529 Psychoanalysis, Health, Gender and the Family
This elective considers recent research on the contribution of psychological factors to physical illness, and the differential impact of caring for elderly, ill and disabled persons on different family members. It considers individual health in the context of family relations (e.g. anorexia), and views the family and gender relations in an historical social context. Critical appraisal of the main types of group therapy and family therapy, transactional analysis, psychodrama, and milieu therapy will be encouraged.

10530 Qualitative Research Analysis
Pre-requisite 10505 Qualitative Research Methods.
In this subject students will execute a qualitative research project and write a report of the findings. The subject will focus on conceptualization, social context, proposition testing and theory construction. Use of computer programs for the analysis of data will be discussed.

10531 Research Methods for Medical Anthropologists
This elective provides knowledge of various methods of fieldwork and the consequences and problems of pursuing them. By analysing examples of published research, attention will be drawn to the problems and difficulties in undertaking a research project in the field of medical anthropology. In particular, specific research strategies will be covered which are relevant to potential thesis topics.

10532 Social Change and Health Services
This elective will assist the student to develop an understanding of the processes of social change in health care systems, and will develop an ability to evaluate the efficiency of proposed structural and role changes within the health care system, and the implications of those changes for the quality of health care provided.

10533 Social Skills of the Intellectually Disabled
This elective traces research over the last several decades into social skills instruction designed specifically for the intellectually disabled, but also places it into the wider context of social skills research. Special programs for social skills instruction are critically examined.

10534 Social Theory and Special Groups
This elective gives students a basic understanding of social theory. As an example of a special group which might be studied, it examines women's health in the context of social class and gender divisions in Australian Society. Students will be encouraged to consider as research issues patterns and concerns regarding the status of women's health using socialist, feminist and psychoanalytic perspectives. Research into particular ethnic groups and multicultural issues are also within the scope of this elective.

10535 Sociology of Gender Relations
This elective examines research perspectives concerning gender relations within the structure of industrial capitalism, with particular focus on relations of power, the sexual division of labour, sexuality, the social construction of gender, production and reproduction and family.

10536 Stress and Coping: Social Context and Individual Differences
This elective considers how social context and external factors influence 'stress'. Arguments that the term 'stress' is misleading and that emphasis should be placed on changing external factors or social conditions will be considered. The effects of interpersonal and social relations on health and well-being and factors such as friendship, love and attraction will be considered. Cases of stressors impinging differentially across varying ages, gender, and socioeconomic factors and different religious groups are emphasised. In looking at the nature of coping and its effect on stress, the concept of stress mastery is addressed, models of coping compared and contrasted and their relationship to the construction of stress management programs critically evaluated. Individual differences in personality and their effect on coping will be considered, especially with respect to generating research. The research potential of procedures which focus on the modification of stress-related behaviours, such as Type A Behaviour, exercise and smoking, particularly behavioural 'contracting' will also be considered.

10537 Stress and Disability
This elective examines the incidence of various disabilities. Community perceptions will be examined, including the reasons behind the existence of 'high profile', 'stigma' and 'cultural acceptability' differences across disabilities. Factors associated with living with a disability will be examined, and the relationship of research to individual accounts critically examined.

10538 Stress and Illness: Management Issues
The nature of the relationship of the psychophysiological stress response and the development of illness will be explored and critically evaluated in this elective. A range of disorders will be considered, for example headaches, coronary heart disease and diabetes. Current research literature across a variety of relevant disciplines will be evaluated as a background to original research. An introduction to the theoretical and practical aspects of a range of stress management techniques is provided. Emphasis will be placed on the research utility of those techniques commonly included in stress-management 'packages', such as relaxation, biofeedback, cognitive restructuring and time management.
10539 Stress: Performance, Psychophysiology, and Exceptional Events
This elective considers the psychophysiology of Cannon's "Fight or Flight response" and Selye's "General Adaptation Syndrome". Differences between attention, arousal, anxiety and stress will be considered and then putative differential effects on performance will be considered. Recent work on the differences and similarities of psychophysiological functioning across a variety of physiological indices, and within and across individuals will be considered. The nature of the "freeze" response will also be considered, and the roles of parasympathetic and sympathetic functioning examined. Research interest will be promoted in human functioning under exceptional events and conditions, both positive and negative. The nature of certain careers and personalities which result in exposure to extreme conditions such as danger in work and injury in sport will be considered. The nature of judgment under extreme pressure will also be evaluated across a variety of conditions, using both laboratory studies and examination of performance in real life conditions such as isolation, extremes of temperature and high demand.

10540 Visualisation and Imagery
This elective examines a range of techniques of visualisation and imagery that have been used for purposes of healing and performance enhancement. The research literature is reviewed to pinpoint the effects and the effectiveness of the applications, and explores the development of skill in their use.

10541 Governing and Supporting Systems
This elective looks at the structure and functioning of social systems. It examines the roles of institutions such as schools, government, families, and other non-government organizations. The elective explores the characteristics of these systems and their influence on individual and collective behavior.

10557 Violence Against Children and Adolescents - in context
Effective intervention into violence against children and adolescents requires an awareness and understanding of the nature and extent of this crime, together with a knowledge of the impact of such violence on all involved: victims/survivors, families, perpetrators and professionals working in the area. Course content will include discussion of the nature and extent of abuse (physical, neglect, sexual, external and systems abuse), theoretical approaches and models which attempt to explain such abuse and a critical examination of attitudes and beliefs about victimisation of children and adolescents. The subject will also examine the Criminal Justice Response to child abuse, including police involvement and related legal issues such as reliability and credibility of children's evidence. Characteristics of perpetrators, child pornography, and prostitution will also be discussed, as will child protection programs and the burden of care falling to the professionals working in the area. This subject will adopt an interdisciplinary approach with an applied focus and will involve input from various agencies such as the police, D.P.P. and other community agencies and service providers [DCS].

10558 Contemporary Issues in Childhood and Adolescence
This subject will enable students to study in depth an area of special interest related to child and adolescent health and adjustment, including such topics as; SIDS, homelessness, the effects of divorce on children, adolescent suicide, eating disorders, bullying, delinquency, sexuality and juvenile offenders. The course will be seminar based, where particular topics will be discussed from a theoretical and applied perspective with particular emphasis on possible intervention programs and treatment. Students will be required to submit an individual report (which can take the form of a critical synthesis of the literature or a small piece of original research). Topics and project style will be decided in consultation with the lecturer.

10559 Therapy with Children, Adolescents and their families
Theoretical models addressing concerns specific to children and adolescents will be considered covering a variety of theoretical perspectives; including behavioural, psychoanalytic and systemic. These models will provide a background for developing interviewing techniques. Students will gain practical skills in interviewing the client within the context relevant to the presenting problem; for example the student will learn when to interview and individual and when to interview the entire family. The subject will conclude with a consideration of the role of the therapist during the process and termination of therapy.
10560 Child and Adolescent Assessment: Psychosocial and Legal Issues
This subject covers age-appropriate assessment techniques from a variety of perspectives and introduces multi-modal forms of assessment such as paper and pencil tests and symbolic play-based measures. A background understanding of Piagetian theory will be introduced in so far as it pertains to these age-specific assessment issues. Ways of resolving the tension between achieving psychologically valid and reliable evidence from children and the (often conflicting) requirements of legally valid and reliable testimonies will be canvassed, with special emphasis on children as witnesses and the problem of children's evidence. Care will be taken to ensure that the assessment process does not constitute a further victimisation of child and adolescent sexual and physical abuse victims. Case study methods will be among material used for this subject and skills will be developed in the writing of reports to prepare students for the possible role of expert witness on behalf of the child and/or adolescent.

10561 Young People and Social Control in Australia
This subject examines how the 'space' occupied by young people in Australia has been subject to even greater social control in recent years. Under the banners of 'skill formation' and 'law and order', Government policies have been directed at curbing the autonomous activities of young working class men and women and enforcing particular kinds of conforming behaviour. Any attempts by young people to win for themselves more freedom of movement and action have been met with concerted effort to tighten control.

10562 The Sociology of Deviance
This subject will use the paradigms developed by the theoretical approach to the sociology of deviance to examine adolescent behaviour in relation to substance abuse, homelessness and other non-traditional lifestyles. This subject will incorporate an historical approach to community breakdown, social control, the effects of media imagery and the changing approaches of social control agents such as governments, the legal system, law enforcement officers and medical personnel. An analysis of legislation and of royal commission findings will be made using structural and interactional theories.

10563 Sociology of Community and Family
This subject develops understanding of urbanisation and of the concept of community in relation to young adults. It examines recent Australian community studies analysing the characteristics of neighbouring and friendship ties. It investigates the nature of networks in terms of size, intensity and homophily, and the support likely to be offered by networks in times of dependency occasioned by chronic ill-health, disability or sudden health crises in youth and adolescence. The interplay between assistance offered by formal health-care and community organisations with informal support is discussed from a sociological perspective. The debate about the predominance of the modified extended family versus the various types of nuclear families is considered and the effects of life-cycle stage and culture are examined. In particular it investigates dependency and support within the family context. The structure and functions of the Australian family in an historical context, together with the significance of changes, are important foci of the subject. Lectures and literature will be used to provide the analytic tools. These will be applied in seminars and applied to data collected in observational exercises and to film material.

10564 Psychology of Child Development and Adjustment
Biological factors, sociocultural expectations, life experiences, personal choices and chance events all contribute to the process of human development. This subject addresses theoretical and applied perspectives related to the study of child development and adjustment. The period of pregnancy (genetic and biological influences) and prenatal development are discussed together with psychosocial factors associated with pregnancy and the birth process. The period of infancy and childhood is examined and topics such as sensory, motor, cognitive and moral development are explored with reference to the effects of variation in attachment, class and culture. The development and function of play and its importance are highlighted together with social and emotional development including: sex role development, friendship patterns and self-esteem and one's self-concept.
10565 Psychology of Adolescent Development and Adjustment

This subject provides an overview and critical evaluation of theoretical approaches which attempt to explain adolescent development and adjustment. Aspects of physical growth and psychological changes will be examined together with factors affecting development and the impact of those changes. Discussion of cognitive and psychosocial development during adolescence will highlight interaction between the adolescent, self and society. Topics will include identity formation, relations with peers and family, sexuality and intimacy, body image and personality; the 'youth culture' role of the media. Adolescent health concerns will also be discussed including alcohol and drug use and abuse, STD's, adolescent suicide.

10566 Subcultural and Cross Cultural Issues: The Costs of Marginality

Much work has been done illuminating the different courses taken in the development of self-concept and self-esteem in minority group children and adolescents. This subject will consider the child and adolescent in cultural context, revealing the relative nature of the concept of 'adjustment' and exploring the particular challenges faced by migrant and refugee children and adolescents as well as those of indigenous minority groups. Possible interventions will be discussed in easing adjustment required by cultural transitions. The different social effects of similar behaviours evidenced by different cultures will be discussed with special emphasis on menstruation, self-destructive behaviours in some cultural groups. Avenues of social change and service provision will be explored.

10567 Health and Cultural Pluralism

This subject examines the health values and experiences of young people and their families in a multicultural society. The Australian government and people have embraced the concept of multiculturalism yet health care delivery is rooted in a monocultural paradigm in which cultural difference in treatment and sickness behaviour are of peripheral importance. Sociological analysis will be used to examine deniographic issues, cultural values, sickness behaviour, family structures and community attitudes in preventative and remedial health care. Government policies and provisions will also be examined and the way in which these have responded to Australia's changing populations will be analysed.

10568 HIV/AIDS: Health and Social Services

This subject is designed to give students a comprehensive introduction to the medical, health and social aspects of HIV disease. It considers epidemiology, prevention, support services, relevant political and legal issues, occupational health and safety procedures. This subject also investigates how specialist health workers can assist children and adolescents living with AIDS.

11433 Health, Dysfunction and Ageing

This subject aims to provide an understanding of the factors responsible for the increased prevalence with age of certain diseases and impairments, especially those with a tendency to become disabling and a handicap. Particular attention is paid to the contribution of environmental factors to the development of these conditions and to the ways in which such disorders may be prevented from leading to further disability. The subject also provides for in-depth study of a specific aspect of individual student interest.

11453 Physical Interface Specialisations

This subject builds on the groundwork of Introduction to Ergonomics and Physical Interface in Ergonomics. The purpose of this subject is to develop skills and knowledge in a selected number of areas of specialisation in ergonomics. The skills include specific analysis of the workplace environment, use of appropriate measurement techniques and problem solving based on recent developments in the pertinent knowledge base of specific topic areas such as industrial design and physical comfort.

11468 Mechanics of Human Movement

This subject will provide biomechanical concepts and skills required for the analysis of human movement. Principles of kinematics, kinetics and electromyography in dynamic muscle movements, and mechanical energy distribution will be studied with reference to selected motor activities. Laboratory sessions will be used to provide illustrations of the above principles and to give students experience with biomechanical laboratory techniques. This subject is only open to graduates who have studied biomechanics previously, and is only available to students enrolled in the Graduate Diploma or Masters of Applied Science in Sports Physiotherapy, Occupational Health, or Paediatric Physiotherapy.

11469 Occupational Biomechanics

This subject aims to assess skills in assessment, implementation and evaluation of the physical interface of an occupational setting. The purpose of this subject is to develop skills and knowledge in a selected number of areas of specialisation in ergonomics.

15437 Occupational Therapy Theory and Practice in Gerontology

The purpose of this subject is to address current and future trends in gerontological occupational therapy. Students will identify occupational therapy roles, review and apply assessment procedures, design and evaluate intervention programs, and examine environmental changes that enhance independent functioning for elderly people.
15441 Lifestyle
This subject explores the patterns of activities and roles that occur in the lifespan and the meaning these have in life. Wellness and health promotion are explored in the context of life patterns and life meaning. Students apply these concepts to understanding the experience of people in life transitions, particularly as this relates to crisis, disability, trauma and illness.

15451 Occupational Therapy Clinical Specialty
This subject is designed to provide the student with the knowledge and skills necessary to upgrade or expand their clinical expertise in an identified area of practice. This subject permits students to undertake approved courses of study off campus to meet (in part) the requirements of "Clinical Specialty Topics". Enrolment in this subject will be contingent on the student being accepted for the course of study and meeting all costs, providing documentation on the course of study prior to enrolment so that the School can determine whether or not to approve such an enrolment and on the students documented completion of the course. This subject is co-ordinated by the graduate adviser who will consider enrolment in this subject on a case-by-case basis.

15452 Communication and Conflict in Health Care Environments
This subject will enable students to investigate communication issues related to working in a variety of health care environments. Students will examine causes of conflict and strategies to enhance communication within health care environments, including conflict resolution and negotiation skills, with communication skills and organizational communication structures.

15453 Occupational Therapy Theory and Practice in Health Promotion
The purpose of this subject is to address current and future trends in occupational therapy in primary and secondary prevention and health promotion. Students will explore occupational therapy history relevant to health promotion, occupational therapy frames of reference relevant to health promotion, the principles and practice of programme development, planning, implementation and evaluation of occupational therapy health promotion in a variety of contexts.

15456 Occupational Therapy Theory and Practice in the Community
The purpose of this subject is to address current and future trends in occupational therapy community work including community support, community resettlement and community development. Students will identify occupational therapy roles and review assessment procedures, intervention, development and evaluation strategies.

15457 Occupational Therapy Theory and Practice in Palliative Care
The purpose of this subject is to address current and future trends in occupational therapy work in palliative care. Students will explore occupational therapy frames of reference relevant to palliative care, and appraise selected occupational therapy assessment and intervention strategies in the light of these models. The physical and psychosocial environment, activity, therapist and the person living with chronic and terminal illness, their family and friends are considered in this review of assessment, strategies and models.

15459 Managerial Issues in Occupational Therapy
This subject provides students with the opportunity to analyse theories of organisational decision-making and to review current managerial theories and techniques which could be applied to occupational therapy work settings.

16506 Restoration of Function in Clients with Chronic Musculoskeletal Disorders
In this subject students will be introduced to the concept of returning deconditioned clients to higher levels of function as a primary goal. This is in contrast to the more traditional view of pain elimination being the primary objective. The students will develop skills in workplace analysis in terms of systems of work and individual work stations. Students will have the opportunity to discuss their findings and write relevant reports with specific recommendations. This subject is normally only available to students enrolled in the Graduate Diploma or Masters of Applied Science (Occupational Health).

16507 Occupational Health Practice
This subject has a two-fold purpose. Firstly, it will provide an opportunity for experiential learning in subject areas and tasks related to the practice of occupational health in the workplace, and secondly to develop skills in workplace analysis in terms of a system of work and individual work stations. Students will have the opportunity to discuss their findings and write relevant reports with specific recommendations. This subject is normally only available to students enrolled in the Graduate Diploma or Masters of Applied Science (Occupational Health).
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