

The University of Sydney



Faculty of Health Sciences

Undergraduate Handbook

1997

Course Information

Further information about all courses offered by the Faculty of Health Sciences may be obtained by contacting Student Administration (Cumberland), by telephone (02) 9 351 9161, fax (02) 9351 9412 or the address below. For other courses offered by the University, refer to the University of Sydney, Student Centre (02) 9351 3013.

Alterations to Courses

Subject, units, courses and any arrangements for courses including staff, as stated in the Undergraduate 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 Undergraduate Handbook was current as at November 1996. Its contents are as accurate and detailed as possible at that time.

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ISSN: 1327-8681

Designed and typeset by Faculty of Health Sciences
Faculty Office

Printed in Australia by
Printing Headquarters, Broadway.

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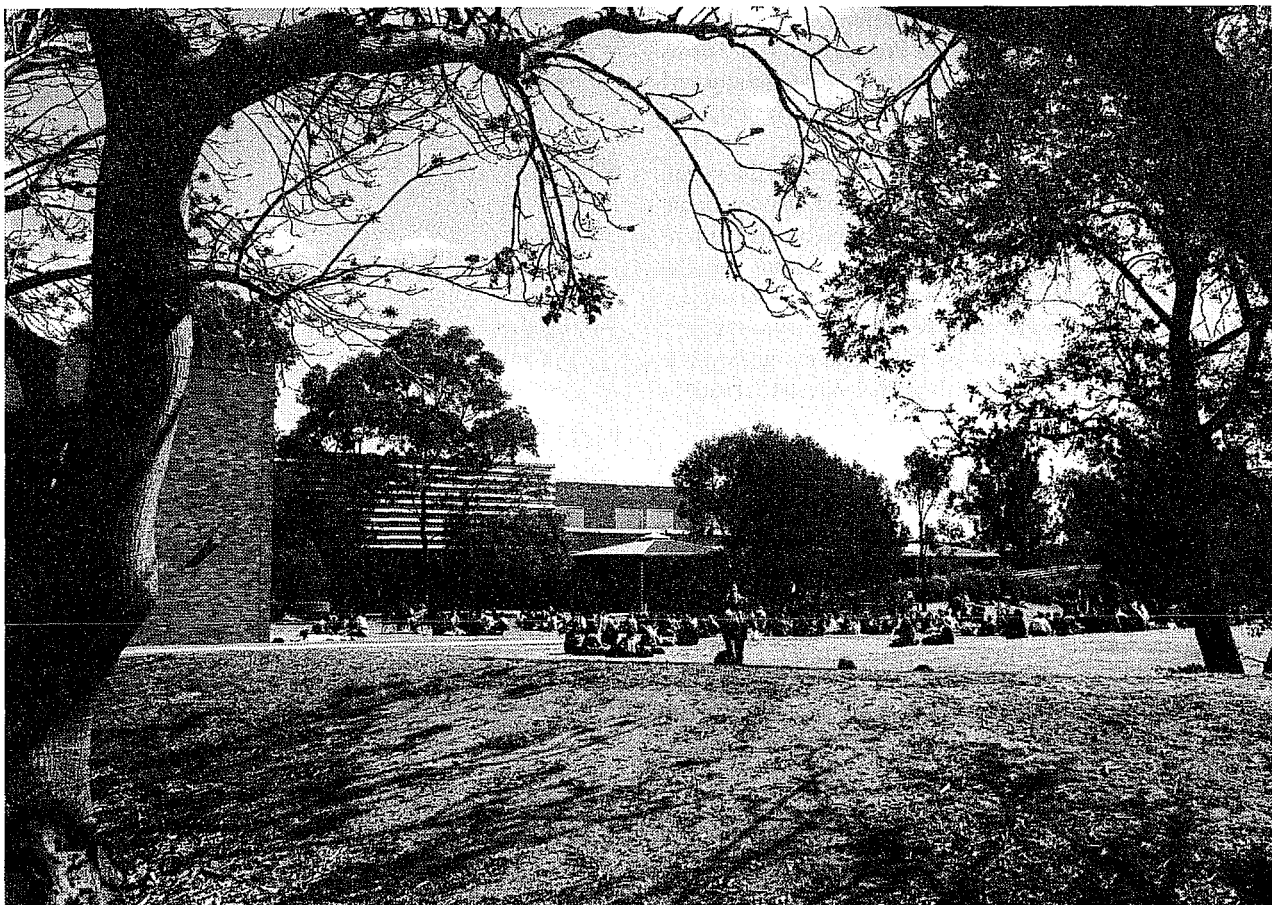
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Introduction

This Undergraduate Handbook is the official guide to the undergraduate courses offered in Faculty of Health Sciences located at the Cumberland campus of the University of Sydney. The Handbook was prepared in advance of the 1997 academic year to maximise its usefulness as a reference to students, 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
- Behavioural Sciences
- Biomedical Sciences
- Casemix
- Child and Adolescent Health
- Clinical Data Management
- Community Health
- Diagnostic Radiography
- Exercise and Sport Science
- Gerontology
- Health Information Management
- Health Science Education
- Leisure and Health (previously Diversional Therapy)
- Nuclear Medicine Technology
- Occupational Therapy
- Orthoptics
- Physiotherapy
- Radiation Therapy
- Rehabilitation Counselling
- Speech Pathology
- Ultrasonography
- Vision Impairment



Message from the Dean and College Principal

Welcome to the 1997 academic year in the Faculty of Health Sciences on the Cumberland campus of the University of Sydney. Whether you are embarking upon your first experience as an undergraduate student or returning to build on previous success, you will find a stimulating and supportive community that will assist you to enjoy the challenges and opportunities that lie ahead.

As an undergraduate student, you will have a number of competing priorities, all of which have their part to play in the development of your full potential as an individual: the self-discipline of academic study, orientation towards practice in your chosen profession or career, and the chance to make life-long friendships with people who have similar goals and interests.

Staff members of this faculty and college are committed to assisting your progress through your academic program. I would encourage you to take advantage of the wealth of support available to all beginning and established students in this faculty. Schools and Departments have well-defined communication channels for students who are concerned about aspects of their academic progress and practical professional advice is also available through the Student Welfare Division, Student Administration Division and the Student Guild. Additionally, for Aboriginal and Torres Strait Islander students, there is a range of dedicated support services provided by the staff of Yooroang Garang, our Centre for Indigenous Health Studies.

I hope that you will take time to enjoy some of the social, cultural and sporting opportunities that are also available on this campus, many of which are arranged by the Student Guild. While your primary focus should remain on the academic and professional goals which you have set for yourself, the enjoyment and sense of fulfilment you experience will be enhanced by friendships you develop through active participation in all facets of life in the student community.

Best wishes for a productive, successful and enjoyable 1997.

Professor Judith Kinnear
Dean and College Principal



1997 Academic Year and Important Dates

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

	1 January	New Year's Day
	26 January	Australia Day
	14 February	Last day to pay compulsory fees
	26 February	Orientation Day (Camperdown campus)
	27 February	Orientation Day (Cumberland campus)
<i>Semester 1</i>	<i>(14 weeks)</i>	<i>3 March - 23 June</i>
	14 March	Last day to pay Semester 1 HECS
	27 March	Last day to finalise enrolment/re-enrolment and to apply for Subject Variation, Leave of Absence, Discontinuation of Studies or Course Transfer for Semester 1 Census Date
		Last day to request Discontinuation from Semester 1 subjects without failure
	28 March	Good Friday
	31 March	Easter Monday
		Semester 1 Census Date for Higher Education Contribution Scheme
<i>Autumn Recess</i>		<i>28 March - 4 April inclusive</i>
	24 April	All students should have received their Confirmation of Enrolment and Notice of HECS Liability for Semester 1 by this date
	25 April	Anzac Day
<i>Study Vacation</i>		<i>9 June- 13 June</i>
	9 June	Queen's Birthday Holiday
<i>Assessment Period</i>		<i>16 June- 27 June</i>
<i>Inter-Semester Recess</i>		<i>28 June - 8 August</i>
	4 August	Post/Deferred Assessments commence
<i>Semester 2</i>	<i>(14 weeks)</i>	<i>11 August - 22 November</i>
	22 August	Last day to pay Semester 2 HECS
	29 August	Last day to apply for Subject Variation, Leave of Absence, Discontinuation of Studies or Course Transfer for 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
	26 September	Date by which all students should have received their Confirmation of Enrolment and Notice of HECS Liability for Semester 2
<i>Spring Recess</i>		<i>29 September - 3 October</i>
	6 October	Labour Day Holiday
<i>Study Vacation</i>		<i>17 November- 21 November</i>
<i>Assessment Period</i>		<i>24 November - 5 December</i>
<i>Christmas Recess</i>		<i>6 December 1997 -27 February, 1998</i>
	27 January, 1998	Post/Deferred Assessments commence

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John L. Sheppard, MA *N.E.* PhD *N'cle(N.S.W.)* DipEd *N.E.*
Mary T. Westbrook, MA PhD *Macq.*

Senior Lecturers

Barbara G. Adamson, BA DipEd *N.E.* PhD
Chris J. Lennings, BA MPsychol PhD *Macq.*
Varoe Legge, BA MA *Macq.* PhD *U.N.S.W.* DipPhy *Macq.*
Ross G. Menzies, BSc PhD *U.N.S.W.*
Reginald A. Mitchell, MSc *Macq.* DipAppSc *Cumb.* BSc MED
PhD
Gerard Sullivan, BBSc MA PhD *Hawaii* DipEd *Lai.*

Lecturers

Peter P. Choo, BA *Pacific Union* BEd PhD *W.Aust.*
Ann Hale, BA *Macq.*
Lynne Harris, BSc PhD *U.N.S.W.*
Robert C. Heard, BA PhD
Syeda Zakia Hossain, BA MA *Dhaka* MA *A.N.U.* PhD *Qld*
Alan Jones, BA *Macq.* DipSpEd *Kuring-gai* *C.A.E.*
Liselott E. Muhlen-Schulte, BA MA DipPsychol
Carol O'Donnell, BA *Qld* MEd PhD *Macq.* DipEd *Qld*
Karen Pepper, MA(Hons) *W'gong* BA
Gomathi Sitharthan, MA MPhil. *Madr.* PhD
Jeanna Sutton, BA *U.N.S.W.* BLegS PhD *Macq.* MA(Prelim)
DipCrim

Associate Lecturers

Michael Hough, BScW. *Aust.* PhD *A.N.U.* DipSocSc *N.E.*
Mairwen Jones, BA RN RPN
Dennis McIntyre, BA *N'cle(N.S.W.)* DipTeach *N'cle* *C.A.E.*
Kate M. O'Loughlin, BA *Macq.*
Rosemary A. Pynor, BBSc L&T.

Department of Biomedical Sciences

Head of Department

Jennifer M. Lingard, BScQtrf PhD MBA *U.T.S.*

Principal Lecturer

Ronald J. Balnave, BSc PhD *U.N.S.W.*

Senior Lecturers

Margaret A.C. Bermingham, MSc *N. U.I.* PhD *Lond.*
Roslyn C. Bohringer, BSc PhD MEdAdmin *U.N.S.W.*
John A. Bume, BSc PhD DipEd *N.E.*
Alan W. Freeman, MSc PhD *Melb.*
Karen G. Ginn, BSc MHPEd *U.N.S.W.* DipPhy
GradDipManipTher *Cumb.* DipTertEd *N.E.*
Edward S.G. Hettiaratchi, MB BS *Ceyl.* PhD *Edin., AMC*
Canb.
Fazlul Huq, MSc *Dhaka* PhD *Lond.* DIC DipEd M.C.AE.,
FRSC
Elizabeth J. Post, BSc PhD
Ponnambalam Sivanandasingham, MB BS *Ceyl.* PhD *Lond.*
Hoang Tran-Dinh, MD *Saigon* DipAnat *A.S.A.N.Z., AMC*
Canb.
A. Bulent Turman, MD *Aegean* PhD *U.N.S.W.*
Patricia D.C. Woodman, MSc PhD

Lecturers

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Ian Cathers, BSc *S.T.C.* MBIomedE *U.N.S.W.* DipEd *S.T.C.*
Matthew J. Coleman, BSc (Hons)
Jan Douglas-Morris, BSc MHPEd *U.N.S.W.* GradDipPhy
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Elizabeth Hegedus, BSc *Tas.* PhD *U.N.S.W.*
Peter K. Knight, BVSc PhD
Gary M. Lee, BSc PhD *U.N.S.W.* MBA *U.C.Q.*
Ann M.C. Murphy, BSc *Qld* MSc *Auck.* PhD *Qld*
Helen E. Ritchie, BSc *Qld* MSc PhD
Dana Strain, BS *Purdue* MSc DipTertEd *N.E.*
Meg Stuart, BAppSc *Cumb.* MSc *U.N.S.W.*
Gilbert J. Vella, BSc PhD *U.N.S.W.* DipEd *S.T.C.*
Svetlana Warton, MSc *Moscow State* PhD *U.S.S.R. Academy*
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Patricia Weerakoon, MB BS *Ceyl. MS Hawaii*
Catherine Willis, MSc *U.N.S.W. DipPhy Cwnb. DipTertEd N.E.*
May B.E. Wong, MSc N.E. MHPEdLT.N.S.W. DipEdLr.A./S.W. DipTertEd *N.E.*

Associate Lecturers

Jonathan Muller, BSc (Hons) *QLD.*
Phillip Owen, Bsc N.S.W. *ARMIT ATTL*

Professional Officers

Ronald D. Avery, AIST
Louise Hayes, BSc *Macq. BAppSc U.T.S.*
Gautham Jayachandran, *BSc U.N.S.W.*
David Lockwood, BSc *Macq.*

Centres

Australian Stuttering Research Centre

Director

Associate Professor Mark Onslow, MAppSc *Cwnb. PhD*

National Voice Centre

Director

Associate Professor Pamela J. Davis, LACST PhD *U.N.S.W.*

Rehabilitation Research Centre

Director

Associate Professor Glen M. Davis, PhD *Tor., FACSM*

Cumberland Health and Research Centre

Director

vacant

Occupational Health Unit

Acting Unit Manager

Sharon Bent, BA MPpsych, MAPsS

Occupational Therapists

Melissa Benson, BAppSc(OccTher) GradCert
(OccTher)Neuro

Liz Thomas, BAppSc (Occ Ther)
Rosemary Wood, BAppSc (Occ Ther) *Cwnb.*

Psychologist

Thomas O'Neill, BA MCLinPsy *Macq., MAPsS*

Senior Physiotherapist

Ray Dubber, BAppSc (Phy), MAPA

Physiotherapists

Trisha Cashmere, BAppSc (Phy), MAPA
Jenny Randall, BAppSc (Phy), MAPA

Rehabilitation Counsellor

Kylie Caust, BA (Psych) GradDip (Rehab)
Margaret Elken, MRehabCIng DipPhy
Kate Nelson, BA GradDipRehabCIng

Corporate Health Consultant

Roxanne Kitchener, BHMS (Ed)

Audiologist

Janette Brazel, BA DipAud *Cumb.*

Sports Clinic

Unit Manager

Cathy Mackay, BAppSc (Phy) MAPA

Consulting Medical Practitioners

Dr James S. Harrison, MB BS
Dr Fiona Long, BSc(Med) MB BS(Hons)

Consulting Orthopaedic Surgeons

Mark Perko, MB BS, FRACS
Martin R. Sullivan, FRACS

Consulting Radiologist

Brian Hammond, FRACR

Consulting Sports Physiotherapists

Nicole Clements, BAppSc (Phy) GradDip (Sports Phy)
MAPA

Ian J. Colaco, BAppSc (Phy) MAPA

Kingsley Gibson, BAppSc (Phy) GradDipAppSc (Sports
Phy) DipTeach DipRemMassage MAPA

Andrew Hughes, BAppSc (Phy) MAPA

Exercise Physiologist

Richard Hawkins, BEd MEx&SpSc GradDipAppSc
(Nursing) RN

Consulting Sports Psychologists

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

Consulting Dietitian

Melissa Boffo, BSc, MND APD

Consulting Masseur

Peter Butler, DTM

Consulting Orthoptist

Pierre Elmurr, BAppSc (Orth) DOBA

National Coding Centre

Director

Associate Professor Rosemary Roberts, BA, MPH, MBA
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Kerry Innes, Assoc Dip (MRA)Cumb.

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Karen Luxford, BSc PhD

Coding Education Manager

Janelle Craig, MComm *U.N.S.W. BAppSc (MRA)*

Quality Manager

Joanne Chicco, BAppSc (MRA)Ci(7nb).

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Judith Hooper, BAppSc (MRA)Cumb.

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Christine Erratt, BBus(Accounting)li.T.S. Assoc Dip
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Senior Classification Officer

Michelle Bramley, BAppSc (IIIM)

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Natalia Alechna

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Information Systems Officer (Acting)

•Damian Hanrahan

Administration

College Principal

Professor Judith Kinnear, BEd *LaT.* MSc PhD *Melb.*
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Secretary to the College Principal

Margaret Kennedy

Dean's Unit

Special Projects

Lester D. Crow, CPA

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Claire Essery, BA DMS *Ulster*

Co-ordinator Singapore Off-shore Programs

Beverly Wellington, BEd(N) ACAE MAS(N) RN

College Secretary

Hugh V. Brandon, BComm *W'gong* AAIM CPA

Secretary to the College Secretary

Maureen Marchant

Building and Grounds Division

Head

Phillip Sorbello

Senior Works Supervisor

John Sommers

Biomedical Engineer

John Eisenhuth, BAppPhys *N.S.W.I.T.*

Grounds Manager

Brian Crick

Faculty Office

Head

Catherine Johnson, MA *George Washington* MA *Monash*
BA LLB

Administrative Officer, Research

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Information and Scholarships Officer

Brigit Rosenmai, BA *U.N.S.W*

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Karen Cheung, BSSc *CUHK*

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Tamatha Darcey

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Financial Services Division

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Norman Arena, MComm *U.N.S.W.*, FCPA, AAIM, SLA

Administrative Officer

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Purchasing Officer

Barrie Kerr

Information Technology Services Division

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

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Prakash Chordia, MSc(Tech) BITS Pilani

Operations Supervisor

Glenn Russell

Network Manager

Robert West, BSc

PC Support

Karen James

Jonathan Ngu, BE (CompEng) *U.N.S.W.*

Personnel Services Division

Head

Stephen Crerar, DipLab Reins & The Law MIR

Senior Personnel Officer

Ramen Chetty, MNIA

Personnel Officers

Marilyn Croft

Alan Frost

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Tina Stanhope

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Graphic Designer

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David Robinson

Printery Manager

Dianne Gillespie

Television Manager

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Property Services Division

Head

Sharon Vaughan

Assets Manager

David Ryan

House Services/Security Manager

Bruce Murray

Mail/Records Manager

Linda Thompson

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Singh Garewal, BA *Delhi*

Student Administration Services Division

Head

Anita Olga Anderson, BA *Adel.*

Undergraduate Officer

Linda Dewar

Graduate Officer

Bharati Jayachandran

Examinations Officer

Eileen Logan

International Student Officer

Nancy Chin

Student Welfare Services Division

Head

Mary Stewart, BA *N'cle(N.S.W.)* MEd (TEFL) *H.K.* DipEd
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Academic and Communication Skills Tutors

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GradDip MLT

Rosalie Thomson BA UNE LicDip S&D GradDipSC *U.W.S*
GradCertTESOL

Marie Clugston BA MLitt MA DipContEd UNE RSA
CertTEFL

Tutor/International Student Advisor

May Thet Tun, BAMA U. *Mandalay* MA(TEM) GradDipMaoj.

Student Counsellor

vacant

Health Sciences Library

Health Sciences Librarian

Helen Mary Knight, DipLib U.N.S.W. BA

Senior Librarians

Stephen T.K. Chan, BSocScHX MBA U.T.S. DipLib *U.N.S.W.*
AALIA

Librarians

John Paul Cenzato, BA *N.S.W.* GradDipLibSc *K.C.A.E.*

Lynne Flanigan, BA(LIS) *C. Stmt*

Garry Hamilton, BA DipIMLib *N.S.W.* AALIA

Kamala Jegaraj, BA (Lib) Canberra CAE, GradDipEd, Sydney
CAE, CertTESOL, U.N.S.W.

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. Tam, BEdNoff. MLib. U.N.S. W. Teach. Cert. H.K.
DipIMLib

*Unless otherwise specified, the qualifications listed
are from the University of Sydney.*

2 Faculty of Health Sciences

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 an academic setting and it convened the 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. 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 program.

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 programs 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.

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 programs, 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 programs 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 Health Sciences Librarian and the Head of Student Administration;
 - 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 of two Departments (Biomedical Sciences and Behavioural Sciences) and eight professional Schools:

- Communication Disorders
- Community Health
- Exercise and Sport Science
- Health Information Management
- Medical Radiation Technology'
- Occupational Therapy
- Orthoptics
- Physiotherapy

The College's administrative structure comprises of eight divisions:

- Building and Grounds
- Faculty Office
- Financial Services
- Information Technology Services
- Personnel Services
- Property Services
- Student Administration
- Student Welfare Services

The Health Sciences 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, 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:

- Corporate Health
- Driver Rehabilitation
- Hearing Rehabilitation
- Occupational Health and Rehabilitation
- Sports Clinic
- Sports Science

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 each School/ Department within the Faculty of Health Sciences plus invited specialists. Individual programs are coordinated by health professionals regarded as leaders in their fields.

Australian Stuttering Research Centre

This Centre of Faculty was established in January 1996, and is supported partly by Faculty funds and partly by external, Commonwealth Research Grants. Staff of the Centre work closely with speech pathologists in the Stuttering Unit, Lidcombe Health Service. The purposes of the Centre are to:

- Conduct world class stuttering research
- Establish national and international collaborative research links
- Provide mentorship for Australian stuttering treatment researchers

- Disseminate to Australian and international speech pathologists information about how stuttering treatment research informs clinical practice
Provide professional continuing education to Australian and international speech pathologists
- Provide postgraduate research programs in stuttering research
Disseminate to the Australian community information about stuttering treatment

Staff research interests draw on several disciplines that are applied to stuttering research, including acoustics, linguistics, physiology and psychology.

National Voice Centre

The National Voice Centre is an emerging University Centre involving principally the Faculty of Health Sciences and the Sydney Conservatorium' of Music, with support from a number of other faculties of the University and community groups. It is dedicated to excellence in the art, care and science of voice.

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 an 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 programs 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 programs
- Assist in organising and conducting relevant teaching programs 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 programs. 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 University, 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.

3 Undergraduate Courses

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, some courses assume a knowledge of particular HSC subjects. Bridging courses are available for students lacking the specified background knowledge.

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 suitably qualified international and mature age applicants.

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

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

Students applying on the basis of the NSW Higher School Certificate (or interstate equivalent)

Applicants for admission to the University must comply with the requirements of the NSW Board of Secondary School Studies for the awarding of a Higher School Certificate and the requirements for calculation of a Tertiary Entrance Rank.

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 for admission.

While there are no specific subject prerequisites for admission to any undergraduate courses in the Faculty of Health Sciences, applicants are advised that not all 2 unit general or 2 unit Z courses are appropriate preparation for tertiary study.

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

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 will be considered for selection on the basis of your secondary and tertiary studies. In general greater weight is given to the tertiary record. If your tertiary studies were affected by serious illness or misadventure, you are entitled to apply for special consideration for admission.

Applicants with a tertiary record may also be required to complete a questionnaire and/or attend an interview.

Overseas Qualifications

Applicants should have overseas qualifications acceptable to the University and provide evidence of English language proficiency acceptable to the University.

Special Admission

The University of Sydney's Special Admissions 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.

Mature age applicants:

To be eligible to apply as a mature age applicant, you must be at least twenty-one 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 such as the Tertiary Preparation Certificate, Limited TER, Special Admissions Preparation course or University Preparation Program. The preparation course must include the "assumed knowledge" subjects for the course(s) you are applying to enter.

Mature age applicants must not have a previous tertiary record of one full-time year or more (or part-time equivalent) at Associate Diploma or higher level.

Educationally disadvantaged applicants:

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 twenty-one 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.

All applicants for Special Admission must complete a Universities Admissions Centre (UAC) Application as well as the University of Sydney's Special Admissions application form. UAC Application forms are usually available in August each year. For further information on UAC procedures and key dates, please refer to Chapter 4 of this volume.

Please note the following points carefully:

- (a) applicants must indicate clearly on the UAC Application form 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) mature age applicants must indicate their entry qualification (for example, Special Admissions Preparation Course, Limited TER, Tertiary Preparation Certificate).
- (c) educationally disadvantaged applicants must provide a clear explanation of their educational history, stating clearly the reasons which prevented them from obtaining or completing a satisfactory education or which interfered with 'normal educational progress'. This must be accompanied by independent supporting documentation (for example, doctor's report).

Special Cases

On the recommendation of the Head of School/Department, the Faculty may, in special cases, recommend an applicant for admission even though 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.

Additional Selection Criteria

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 offers a number of places to persons from non-English speaking backgrounds who 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 of NSW on forms available from either the Commission or Student Administration (Cumberland).

Cadigal Program

The Cadigal Program is an access and support program for people of Aboriginal and Torres Strait Islander descent wishing to study in undergraduate courses. Up to 5% of places within the Faculty will be made available to suitable Aboriginal and Torres Strait Islander applicants.

Students who wish to apply for entry through this program should lodge the normal application through UAC and also lodge an application on the form available from Yooroang Garang, the Centre for Indigenous Health Studies, Faculty of Health Sciences, or the Koori Centre, University of Sydney. Applicants are considered under the categories of HSC applicants and Non-HSC applicants.

HSC Applicants

Applicants under this category will be eligible for consideration for admission upon meeting the following requirement:

Completion of the NSW Higher School Certificate (or equivalent) with the minimum TER as set by the Cadigal Program for the course applied for.

Non-HSC Applicants

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 including any "assumed knowledge" subjects 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.

Support for Aboriginal and Torres Strait Islanders

Students entering awards under the Cadigal Program may participate in the Aboriginal Health Science Support Program, which is co-ordinated by the Yooroang Garang. 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.

Yooroang Garang supports all Aboriginal and Torres Strait Islander 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 who have suffered long-term educational disadvantage to gain entry to courses at the University. Information and application forms are sent to all secondary 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. doctors' reports, counsellors' reports, teachers' reports etc. and must be endorsed by the school principal.

Further information can be obtained from the University of Sydney Special Admissions Office (02) 9 351 3615.

Support for Students with Disabilities

The University recognises the need for the provision of educational opportunities for persons with disabilities. Subject to their meeting normal entry requirements, persons with disabilities will be admitted to the Faculty and the University will endeavour to make provision for any special services or assistance needed for these students to pursue their studies. Students with disabilities are advised to contact Student Welfare Services (Cumberland) as soon as possible after admission to the Faculty to discuss their needs.

Behavioural and Biomedical Sciences

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

The depth to which these areas are studied depends on the requirements of individual courses. In a number of courses, other areas of science are studied including biochemistry, biophysics, microbiology, biomechanics, applied physiology or 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 psychosocial 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

Biomedical Sciences subjects include the following areas of study:

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.

Biochemistry and *Biophysics* include the physics and chemistry necessary for 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 biology/physiology, chemistry, 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 gauge their preparedness to undertake particular programs of study. This assumed knowledge does not apply to programs 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. Students who do not meet the required level of assumed knowledge are encouraged to contact the Continuing Professional Education and Conference Unit on (02) 9 351 9343 about bridging courses or supplementary work to bring themselves up to the required level of knowledge.

The following summaries state concepts, knowledge, abilities and skills which enable easier assimilation by students commencing study. The items listed are not prerequisites. The summaries provide a useful basis for any remedial tuition for students who feel their science background to be inadequate during the first year of study.

Biology/Physiology

(relevant to all students)

Although no prior knowledge is expected, an understanding of the basics of biology would be beneficial to students undertaking subjects with a physiology component. Introductory physiology subjects cover topics which are part of most high school biology courses.

For students who feel that their understanding of biology is inadequate, a physiology bridging course is offered before the start of the first semester.

Chemistry

(relevant to Physiotherapy, Orthoptics, Occupational Therapy, Medical Radiation Technology, Speech Pathology, and Exercise and Sport Science)

- Understanding of the following concepts and terms: atom, subatomic particles (proton, neutron, and electron), periodic table, electronic configuration, ions, covalent, and ionic bonds, electronegativity and shape, metals and non-metal.
- Knowledge of the names and chemical symbols of the first thirty-six elements of the periodic table, and other common elements.
- Knowledge of the following concepts and terms: types of compounds such as acids, bases, salts, mole, molar mass, solids, liquids, gases, temperature, and bond energies.
- Knowledge of the usual valencies of the common elements, ions and polyatomic ions.
- Ability to write word, ionic, and stoichiometric equations for chemical reactions.

Grammar

(relevant to Speech Pathology)

- Familiarity with the terminology of traditional English grammar and common classes, eg, noun, verb, preposition, adverbial phrase, subordinate clause, etc.
- Ability to distinguish clauses from phrases, and simple sentences from complex ones.
- Knowledge of construction of phrases, eg NP, UP, PP etc.
- Ability to identify the elements of clauses, ie subject, objects, verbs, adverbs, and complements.

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 to 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.
- ⁸ 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.
- ⁸ 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

Bridging courses are offered in Chemistry, Physiology, Physics, and Grammar (for Speech Pathology students only). These courses are recommended for undergraduate students who feel that they have not attained the required level of assumed knowledge above. Bridging courses are also offered in *English for Academic Purposes*, and in *Study Management and Academic and Communication Skills* for both undergraduates and postgraduates. These are especially relevant for students from non-English speaking backgrounds, special entry students, and mature-age students returning to study after a long absence.

Bridging courses are held in February each year, approximately two weeks prior to commencement of semester one.

In addition, a five-week full-time *Study Preparation Program* is offered to newly enrolled international students in January/February. Australian residents who have no previous tertiary study in Australia are also eligible to enrol in the *Study Preparation Program* which prepares students for academic study in an Australian health sciences context.

Information about bridging courses is sent out with offers of admission into undergraduate and graduate programs. Prospective students are advised to complete the appropriate course if in any doubt as to their capacity in any of the above areas.

The Mathematics Learning Centre (Camperdown Campus) provides assistance to students needing to improve mathematical skills.

Honours Programs

The degree of Bachelor of Applied Science may be awarded in the grade of Honours in the following programs:

Exercise and Sport Science.
Health Information Management
Medical Radiation Technology
Occupational Therapy
Orthoptics
Physiotherapy
Speech Pathology

The degree of Bachelor of Health Science may be awarded in the grade of Honours in the areas of Rehabilitation Counselling or Aboriginal Health and Community Development.

Information provided here on these Honours Programs 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 Program is generally at the beginning of the Third Year and eligibility for admission is based on performance during Years 1 and 2 of the course. Selection of students into an Honours Program is competitive and based on 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 Administration (Cumberland) if they have met the criteria for admission. Eligible students wishing to be admitted to the Honours Program must then apply to the Head of School to seek admission.

Progression

Students in an Honours Program continue to enrol in most, if not all, of the subjects in the Pass Program 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 Program. Completion of a thesis or, in some cases, a treatise, is required. Details of specific requirements are given under each School's entry in this Handbook. Students in an Honours Program may elect to return to the Pass course at any time assuming they meet criteria for Pass course progression.

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 1 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 academic staff members of the University. The Head of the relevant School appoints the examiners in consultation with the supervisor, and the examiners provide recommendations that:

- i) the thesis be accepted as presented; or
- ii) it be accepted subject to minor modifications which must be completed within the time limit of the Honours Program; or
- iii) the thesis be rejected.

In evaluating the thesis, each examiner awards the thesis a mark between 0 and 50, and the sum of the examiners marks serves as the basis upon which the thesis is to be rejected or accepted. Schools may include marks from related coursework subjects in the total. If coursework subjects are included the level of Honours to be awarded is based on the total score obtained.

Awards/Scholarships

Information on a range of scholarships is available from the Scholarships Officer in the Faculty of Health Sciences Phone: 9 3519154. The University acknowledges with gratitude gifts from various sources which have made possible the following prizes:

Award or Prize	Value \$	Criteria
The Alcusal Prize for Research	\$150	Honours student with the best undergraduate research project in the School of Physiotherapy.
The Australian Physiotherapy Association Prize	\$100 each prize	Two awards. In the Bachelor of Applied Science (Physiotherapy) Pass course, firstly, the most proficient graduand and, secondly, the graduand who achieves the highest standard in clinical practice.
The Cardiothoracic Prize in the School of Physiotherapy	\$200	Student with the highest combination of marks in both the cardiopulmonary clinical placement and the cardiopulmonary fourth year of the Bachelor of Applied Science (Physiotherapy) course.
The Ciba-Geigy Prize	\$100	Student with the highest aggregate mark in the subject <i>Occupational Role Development I</i> in the Bachelor of Applied Science (Occupational Therapy) course.
The Diversional Therapy Association of Australia Prize	\$100	Student with the highest aggregate marks for the subjects <i>Diversional Therapy Facilitation Skills I and II</i> in the Bachelor of Applied Science (Diversional Therapy) course.
The Hilda Roberts Memorial Prize	\$100	Most proficient student on completion of the final year of the Bachelor of Applied Science (Health Information Management) course.
The Jillian Salter Memorial Award	\$300	Non-metropolitan student with the highest aggregate marks across all second year subjects in the Bachelor of Applied Science in Medical Radiation Technology (Diagnostic Radiography) course.

Award or Prize	Value \$	Criteria
The Kodak Prize for Honours students in Medical Radiation Technology	\$200	Awarded for the student who gains the highest score in the assessment of their "Honours Thesis" in the Bachelor of Applied Science (Medical Radiation Technology) course.
The J. Val Simpson Memorial Prize for Manual Therapy	\$100	Student exhibiting the highest proficiency in manual therapy in the Bachelor of Applied Science (Physiotherapy) course.
The Met-a-Lite Prize for Components of Occupational Performance	\$100	Student with the highest aggregate marks for the subjects <i>Components of Occupational Performance I, II and III</i> in the first, second and third years of the Bachelor of Applied Science (Occupational Therapy) course.
The Murray F. Allan Memorial Award	\$100	Student exhibiting the most outstanding services to students. Open to students of all Schools and Departments in their final year of study.
The NSW Association of Occupational Therapists' Prize for Occupational Therapy and Process and Issues in Occupational Therapy Practice	\$100	Student with the highest aggregate marks for the subjects <i>Occupational Therapy Theory and Process I, II and III</i> and <i>Issues in Occupational Therapy Practice</i> in Bachelor of Applied Science (Occupational Therapy) course.
The NSW Branch of the Australian Association of Speech and Hearing Prize	\$100	Student with the highest general proficiency in the final year of the Bachelor of Applied Science (Speech Pathology) course.
The Orthoptics Association of Australia, NSW Branch Prize	\$150	Honours student gaining the highest marks for an honours thesis in the Bachelor of Applied Science (Orthoptics) Honours.
The Patricia Lance/John Pockley Prize	\$100	Student with the highest general proficiency demonstrated throughout the Bachelor of Applied Science (Orthoptics) course.
The Physiotherapy Research Foundation Prize	\$100	Student with the highest grade for an Honours research thesis of a Class 2 Level 2 grade or better in the Bachelor of Applied Science (Physiotherapy) Honours course.
The Private Speech Pathologists' Association of New South Wales Prize	\$100	Student with the greatest 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	\$100	Student who is judged as having best shown an awareness of patients' total needs and real empathy with patients' physical, psychological and emotional needs in the Bachelor of Applied Science (Physiotherapy) course.
The Smith and Nephew Prize for Occupational Therapy students	products to the value of \$350	Awarded for the attainment of the highest aggregate marks in the subjects Human Occupations I, II, III and IV in the four years of the Bachelor of Applied Science (Occupational Therapy) course.

Financial Assistance

Austudy

Austudy provides 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:

Department of Employment,
Education, Training and Youth Affairs
Austudy (Tertiary) Section
112 Main Street, 1st Floor
Blacktown, NSW 2148
P.O.Box 1042
Blacktown, NSW 2148
Telephone: (02) 9672 5555
Toll-free 1800 463 965

Abstudy

Abstudy provides financial 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:

Department of Employment,
Education, Training and Youth Affairs
Abstudy
112 Main Street, 1st Floor
Blacktown, NSW 2148
P.O.Box 1042
Blacktown, NSW 2148
Telephone: (02) 9672 5603
Toll-free 1800 463 965

Loans

A Short Term Loan Fund has been established from funds provided by the Australian Government under the Special Assistance for Students Program, and by the Student Guild.

Loans are available to students who are Australian citizens and permanent residents to help with essential living expenses (housing bonds, rent, household bills, emergencies) and study expenses (textbooks and equipment, clinical placements and thesis production). Interest free loans are also available to both full-time and part-time students to cover compulsory subscriptions payable on enrolment. 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 Student Welfare Services (Cumberland). The maximum amount of the loan is normally \$1500.00 with an interest free period of twelve (12) months. (Non-award students are ineligible to apply for assistance from the fund)

Explanation of Subject Numbering System

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 comprises 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 digits are sequentially allocated as required. Subjects conducted over two calendar years are allocated a different subject number for each year.

Subject numbers are allocated by the Head, Student Administration (Cumberland).

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 Biomedical 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
- 21 National Voice Centre
- 22 School of Exercise and Sport Science
- 23 Rehabilitation Research Centre
- 24 Australian Stuttering Research Centre

Summary of Undergraduate Diplomas and Degrees

	Duration	Mode	Course Code
Bachelor of Applied Science (BAppSc)			
Leisure and Health (Diversional Therapy)	3 years	F/T	1531
Exercise and Sport Science ¹	3 years	F/T	2201
Health Information Management ¹	3 years	F/T	0902
Medical Radiation Technology ¹	3 years	F/T	
Diagnostic Radiography			1808
Nuclear Medicine			1809
Radiation Therapy			1810
Medical Radiation Technology (Conversion Course)	1 year	P/T	
Diagnostic-Radiography			1821
Nuclear Medicine			1822
Radiation Therapy			1823
Occupational Therapy ¹	4 years	F/T	1519
Orthoptics ¹	4 years	F/T	1410
Physiotherapy ¹	4 years	F/T	1622
Speech Pathology ¹	4 years	F/T	1206
Bachelor of Health Science (BHlthSc)			
Aboriginal Health and Community Development ¹	4 years (Block attendance)		0853
Community Development ¹	3 years	F/T	0856
Medical Radiation Technology ²	2 years	P/T	2004
Medical Radiation Technology ³	1 year	F/T	
Diagnostic Radiography			1830
Radiation Therapy			1831
Nursing ²	(September start) 2 years	P/T	2001
	(April start) 2 years	P/T	2011
Occupational Therapy ²	1 year	P/T	2002
Occupational Therapy ³	1 year	F/T	1532
Physiotherapy ²	2 years	P/T	2003
Physiotherapy ³	1 year	F/T	1650
Rehabilitation Counselling ¹	3 years	F/T	0819
Diploma of Health Science (DipHlthSc)			
Aboriginal Health and Community Development	2 years	P/T	0808
	plus 1 year	F/T	
	2 years	F/T	0867

Notes

- ¹ Honours Program available. Total course length four years full-time.
- ² Offshore (Singapore-based) conversion courses.
- ³ On-shore (Sydney-based) Singapore conversion courses.

4 Administrative Information

Course Enquiries and Applications

Student Administration (Cumberland)

Student Administration (Cumberland); located in the Jeffrey Miller Administration Building ("A" Block), provides intending applicants and enrolled students, 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 and 4.30 p.m.

The postal address is:

Student Administration (Cumberland)
The University of Sydney
P.O. Box 170
Lidcombe, NSW 2141
Ph: 9 351 9625
Fax: 9 351 9412

Undergraduate Course Applications

Applications for the Faculty's undergraduate courses are processed by the Universities Admissions Centre (UAC). Courses offered are:

Bachelor of Applied Science

- Exercise and Sport Science
- Health Information Management
- Leisure and Health/Diversional Therapy
- Medical Radiation Technology
- Occupational Therapy
- Orthoptics
- Physiotherapy
- Speech Pathology

Bachelor of Health Science

- Aboriginal Health and Community Development
- Rehabilitation Counselling

UAC application forms and 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 Student Centre/Enquiry Counter of any University or from the Universities Admissions Centre,

Postal Address:
UAC, Locked Bag 500
Lidcombe, NSW 2141
Telephone (02) 9330-7200

The closing date for UAC applications is late September, however late applications may be lodged until mid-December, upon payment of the specified late fee. In special circumstances, Student Administration (Cumberland) may accept direct applications after the late UAC closing date upon payment of a late application fee of \$100.

All Other Course Applications

Information and application forms for all other courses (non-UAC undergraduate, conversion, graduate diploma, Master's degree and doctoral courses in the Faculty) are available from Student Administration (Cumberland). Completed applications must be lodged by the advertised closing date at Student Administration (Cumberland). Late applications may be accepted in some instances.

Graduate Students

Detailed application procedures are set out in Chapter 4 of the Postgraduate Handbook.

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 Head, Student Administration (Cumberland).

Students who do not formally discontinue may be deemed to have abandoned their course if they fail to complete enrolment by 31 March of the following year.

Deferment of Enrolment

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 enrolment for a maximum period of one year.

Deferment of enrolment will not normally be granted to enable an applicant to undertake another tertiary course.

Other applicants will not be permitted to defer enrolment unless there have been extreme and unpredictable changes in circumstances since applying for the course.

Applications for deferment must be lodged in writing by the specified closing date with the Head, Student Administration (Cumberland).

Full-fee paying overseas students may be permitted to defer enrolment. Written applications must be lodged with the International Office.

Non-Award Enrolment

Non-award students are students who are enrolled in a subject or subjects but are not proceeding to a degree or diploma of the University. The Faculty may permit enrolment in a particular subject or subjects provided that the student has an appropriate academic background and that the Head of the School/Department offering the subject considers that the student will benefit from the subject, that accommodation is available and that the enrolment does not prevent a place in that subject being available to a student proceeding to a degree or diploma.

A student who is subsequently admitted to a course of the University for which subjects completed as a non-award student form a part, may receive credit for those subjects.

Enquiries concerning eligibility for enrolment and the availability of subjects should be made at the relevant School/Department. Applications for non-award enrolment should be submitted to Student Administration (Cumberland).

Non-award students are required to pay subject tuition fees on the basis of a fixed fee (\$13,000 in 1996) for a full-time load multiplied by the weight of the individual subject.

Miscellaneous Enrolment

Provision is made in the Faculty for students to undertake study in subjects which form part of award courses. Miscellaneous students' results will not be formally presented but a certificate of successful completion will be given on completion of subjects.

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 \$9.00 per hour in 1997) for this mode of study.

Application forms are available from the Continuing Professional Education and Conference Unit in "A" Block and should be lodged prior to commencement.

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.

Cross-institutional students will incur a HECS liability for their enrolment except that where such students are permitted to enrol in a subject for which a tuition fee is charged, they will be required to pay the tuition fee in lieu of a charge under HECS.

Enquiries concerning application procedures and eligibility should be directed to Student Administration (Cumberland).

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 study;

- b) completion of such forms for statistical purposes as required by the Department of Employment, Education, Training and Youth Affairs (DEETYA), 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 Student Guild fees;
- f) payment of the estimated Higher Education Contribution for Semester 1 if the "up-front" mode of payment is adopted.
- g) payment of tuition fees for Semester 1 if enrolled in a fee paying course

New students accepting places in courses processed by the Universities Admissions Centre are required to enrol at the Cumberland Campus on Thursday 30. or Friday 31 January, 1997. 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 enrol at the Cumberland Campus on Tuesday, 28 January, 1997. and will be required to complete at least items (a) - (d) above.

Students who receive UAC offers in the Final Round are required to enrol at the Cumberland Campus on Tuesday, 11 February, 1997.

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, 14 February, 1997 or the enrolment may be cancelled (financial assistance in the form of a short term, interest-free loan is available to support the payment of compulsory subscriptions). A fees / charges deposit notice for this purpose will be issued at enrolment. If fees are not paid by this date the enrolment may be cancelled. If re-instatement is subsequently requested and approved a \$100 re-instatement fee may apply.

If the "up-front" mode of payment is adopted, the estimated Higher Education Contribution for Semester 1, must be paid by Friday, 14 March, 1997. A statement of enrolment and another fees/charges deposit notice will be issued by the end of February for this purpose. Failure to pay by this date will result in the "up front" payer's enrolment being cancelled on 1 April, 1997, unless the payment option is altered to "defer-to-tax" by 27 March, 1997.

With prior approval only, the last day for new students to commence enrolment is the Friday at the end of Week 2, Semester 1 (i.e. 14 March, 1997), and the last day to complete enrolment is Thursday 27 March, 1997. These dates may be varied only with the express approval of the Head, Student Administration (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;
- b) completion of such forms for statistical purposes as required by the Department of Employment, Education, Training and Youth Affairs (DEETYA) 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);
- 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 Student Guild fees.
- f) payment of the estimated Higher Education Contribution for Semester 1, if "up-front" mode of payment is adopted.

Re-enrolment of continuing undergraduate students will be carried out by mail. In mid-January, 1997, students who have indicated an 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, 14 February, 1997 (financial assistance in the form of a short term, interest-free loan is available to support the payment of compulsory subscriptions). A fees/charges deposit notice for this purpose will be issued in the re-enrolment kit. If fees are not paid by this date the enrolment may be cancelled. If re-enrolment is subsequently requested and approved a \$100 re-instatement fee may apply.

If the "up-front" mode of payment is adopted the estimated Higher Education Contribution for Semester 1, must be paid by Friday, 14 March, 1997. A statement of enrolment and another fees/charges deposit notice will be issued by the end of February for this purpose. Failure to pay by this date will result in the "up-front" payer's enrolment being cancelled on 1 April, 1997 unless the payment option is altered to "defer-to-tax" by 27 March, 1997.

Academic advisers will be available for consultation concerning variations to proposed subjects for enrolment during the last week of January. Completed re-enrolment documents are to be lodged at Student Administration (Cumberland) by Friday, 31 January, 1997.

The above dates may be varied only with the express approval of the Head, Student Administration (Cumberland). The last day to finalise re-enrolment is Thursday, 27 March, 1997. Failure to complete enrolment by the above date will be deemed to indicate an intention on the part of students to abandon their course and removal of the enrolment record will ensue.

Student Identity Card

All enrolled students are issued with a University identity card which must be carried during attendance at the University and shown on official request. The student number appearing on the identity card is the identifier used in the University's records and should be quoted in all correspondence. The card must be presented when borrowing from the University Libraries and when applying for and using travel concessions.

Any student seeking leave from or discontinuing a course must return the identity card to Student Administration (Cumberland) as part of the Exit Procedures of the University.

In the event of loss, a replacement identity card may be issued by Student Administration (Cumberland), on payment of a \$10.00 fee to the Cashier.

Statement of Enrolment - Semester 2

At the beginning of Semester 2, a statement of the expected enrolment and associated estimated HECS will be sent by mail to the semester address of each currently enrolled student.

If the statement is accepted as correct 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 for reference. Payments must be made by Friday, 22 August, 1997. Failure to pay by this date will result in the "up-front" payer's enrolment being cancelled on 1 September, 1997 unless the payment option is altered to "defer-to-tax" by 29 August, 1997.

If amendments are required to the statement it should be returned to Student Administration (Cumberland) by Friday, 22 August, 1997, with a letter of explanation. The completion of an "Application for Subject Variation" may be required.

Students who do not intend to continue their studies in Semester 2 must formally withdraw from their course before 29 August, 1997, or they will be charged HECS for Semester 2.

Confirmation of Enrolment - Semester 1 and 2

In late April (Semester 1) and late September (Semester 2), all enrolled students will receive a notice confirming the details of their enrolment and providing a record of their Higher Education Contribution for the current semester. 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. If amendment to this notice is required it should be returned to Student Administration (Cumberland) with an explanatory letter. The completion of an "Application for Subject Variation" may be required.

Fees and Charges

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 postgraduate award;
- have a HECS teacher exemption scholarship awarded by an education authority.

At the time of writing, it is anticipated that as a result of budget changes made by the Federal Government, an annual contribution (of \$4,700) will apply for each year of equivalent full-time study in the Faculty of Health Sciences. 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. It will be assumed that continuing students will maintain the previously selected mode of payment, although they may apply to vary their mode.

"Up-Front" Payment of HECS

This mode permits a student to pay an annual amount equal to 75% 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 case, the discount is forfeited and the "deferred" option continues unless changed by the student.

"Deferred" Payment of HECS

This mode permits a student to defer all or part of the full contribution for the semester. No repayment is required 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.

Fee-Paying Postgraduate Programs

An increasing number of postgraduate coursework programs in the Faculty are moving from a HECS-liable to a fee-paying status or being introduced as fee-paying programs. Students who enrol in these programs are exempt from payment of the Higher Education Contribution. The fee associated with 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.

Student Guild Fees

All students on the Cumberland Campus are required, as a condition of their enrolment, to become members of the Cumberland College of Health Sciences Student Guild. The Senate requires a student in the Faculty of Health Sciences who enrolls

- a) in an undergraduate Bachelors degree, Diploma or Associate Diploma to be a member of and pay subscriptions to the studentbody 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 a reduced fee.

Extension of Time for Payment

Any student who is unable to pay compulsory fees or charges may apply before the due date to the Head, Student Welfare Services (Cumberland), for an interest free loan to cover compulsory subscriptions payable on enrolment. This loan is repayable by 30 April.

An extension will not 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. Loans are not available for payment of HECS or course fees.

Notes and Levies

The Department of Biomedical Sciences publishes manuals for most of its subjects, ranging in cost between \$4.00 and \$69.00 (1996). Purchase of manuals is optional, but strongly recommended. Copies of manuals are available in the Library's Closed Reserve.

Students in the School of Communication Disorders pay an annual levy for the use of equipment.

Continuing International Students

Fees for Semester 1 must be paid by 15 January, 1997. Fees for Semester 2 must be paid by 30 June, 1997.

Failure to meet Financial Liabilities

Students who are financially indebted to the University and have not made acceptable arrangements for settlement of their obligations are not entitled to use the University's facilities and their enrolment may be cancelled. They will not be permitted to register for a further semester, to attend classes or examinations, or to be granted any official credentials. Cancellation of enrolment applies if any portion of fees or the supply of a required tax file number is outstanding at the census date in the relevant semester, that is, 31 March in Semester 1 and 31 August in Semester 2. Reinstatement of enrolment, if approved, may require payment of a \$100 fee.

Refund of Fees

- a) If written notice of discontinuation of a course is received by 31 March, all Student Guild Fees paid will be refunded.
- b) After 31 March in a year, 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 Cumberland Student Guild detailing their case.
- c) 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 refund made a short time after receipt of the notice.
- d) Request for refund of any other fees or contributions should be directed, in writing, to the Head, Student Administration (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).
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 challenge exams, where available.
 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 through previous formal study. 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.

(*) 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.

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 TAFE, 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.

Current Practices

1. Schools within the Faculty of Health Sciences

Due to the specific nature of these courses and the limited number of similar programs 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. Few "class-actions" (*) for credit transfer have been implemented, and each student's case in relation to School subjects is considered individually on the basis of information submitted.

List of Subjects with 1997 Challenge Exams

Department of Biomedical Sciences

Subject	Subject Name	Semester Offered	Course
11158	Introductory Human Biology	SI	Physio
11161	Body Systems I	S2	Physio
11162	Basic Human Biology I	FY	IIIM
11171	Radiation Physics	FY	MRT
11172	Functional Anatomy A	SI	Physio
11173	Functional Anatomy B	S2	Physio
11174	Anatomy of Body Systems	FY	MRT
11175	Biological Sciences I	FY	Rehab
11176	Introductory Human Biology	SI	CD, OT, Orthoptics
11177	Musculoskeletal Anatomy	FY	OT
11178	Introductory Neurobiology	SI	CD, OT, Orthoptics
11179	Neurobiology I	S2	CD, OT, Orthoptics
11180	Optics I	SI	Orthoptics
11181	Body Systems I	S2	CD, Orthoptics
11183	Biological Sciences I	FY	Leisure and Health/DT
11184	Biological Sciences I	FY	AbHealth
11186	Body Structure: Homeostasis and Movement	FY	ExSpSc
11187	Molecules, Food and Energy	SI	ExSpSc
11191	Introductory Neurobiology	• SI	Physio
11192	Neurobiology I	S2	Physio
11193	Introductory Human Biology	S2	MRT
111A5	Life Sciences IA in Nursing	SI	Nursing
111A6	Life Sciences IB in Nursing	S2	Nursing
11283	Basic Human Biology II	FY	IIIM
11286	Body Systems II	S2	Physio
11287	Neurobiology II	SI	Physio
112A6	Biological Sciences IIB	S2	Nursing
112A7	Neurobiology II	SI	OT
112A8	Body Systems I	S2	OT

Exceptions:

1. The Schools of Medical Radiation Technology and Health Information Management may use challenge examinations in individual cases to clarify the level of prior learning.
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 (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/Leisure and Health)* from the Associate Diploma of Applied Science (Diversional Therapy) (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. Credit Transfer based on Challenge Examinations

Credit transfer in the following subjects is determined on the basis of a satisfactory result in a challenge examination.

112B1	Introductory Pathology	SI	Orthoptics
112B3	Neurobiology II for CD	SI	CD
112B5	Pathophysiology	FY	MRT
112B6	Tumor Pathology	FY	MRT
112C8	Life Sciences in Nursing 2A	SI	Nursing
112C9	Life Sciences in Nursing 2B	S2	Nursing
11374	Body Systems III	SI	Physio
11382	Body Systems II	S2	OT
11442	Functional Anatomy	S2	G/D ExSpSc
11454	Biological Sciences	SI	MRT(GradDip)

Department of Behavioural Sciences

08129	AustSoc&Health (second half only)	FY	Rehab
101B1	Cognitive Functioning	S2	OT
101B2	Management of Behaviour	S2	OT
101B6	Cognitive and Developmental Psychology	FY	CD
101C5	Research Methods I: Design	SI	Physio
101B7	Research Methods and Statistics I	SI	CD
102A6	Clients, Work and Organisations	SI	Leisure and Health/DT
102B2	Research Methods I: Design	SI	IIM
10285	Health, Society and Social Change	S2	IIM
10286	Research Methods I: Design	SI	IIM
10287	Research Methods II: Data Analysis	S2	IIM
10288	Social Interaction, Communication and Personality	SI	Physio
10294	Sociology of Health I	S2	OT
10295	Research Methods and Design	SI	OT
10296	Research Methods and Statistics I	S2	OT
10297	Behavioural Science II	FY	Orthoptics
10298	Research Methods and Statistics	S2	Orthoptics
10299	Research Methods and Designs	SI	Orthoptics
103A8	Sociology (second half only)	FY	CD
103B2	Behavioural Science III (Hons) (Health, Medicine and Society unit only)	FY	MRT
103B9	Research Methods II: Data Analysis	SI	Physio
10394	Behavioural Science III (Health, Medicine and Society unit only)	FY	MRT
10396	Sociology of Work and Organisation	S2	IIM
10457	Health, Medicine and Society	SI	Physio
10479	Health Psychology	SI	Physio

School of Exercise and Sport Science

22208	Biomechanics	si	Physio
22209	Biomechanics for OT	S2	OT
22309	Applied Physiology	FY	Physio

Students applying for credit transfer in other subjects must submit documentary evidence of prior learning.

3. Credit Transfer based on TAFE Studies

Due to the specialised nature of the Faculty's programs, there are few TAFE subjects which could result in Advanced Standing. 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 studies may provide grounds for the granting of Specified Credit 1 or 2:

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 (Leisure and Health/ 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, including 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 subjects) in question.

5. Implications of Gaining Credit Transfer

General:

1. Gaining Credit Transfer /Advanced Standing in a subject will decrease the student's workload. It should be noted that a reduced overall workload may affect 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.

The Grade Point Average is the basis for:

- a) entry into Faculty Honours Programs
- b) qualifying for 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 Administration (Cumberland) in "A" Block. Applications should be made on the appropriate form and lodged with Student Administration (Cumberland) by the specified date. Students should 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 all subjects.

Challenge Exams

Credit transfer in some subjects is determined by challenge exams. The application for credit transfer in all these subjects (Form A) must be lodged with Student Administration (Cumberland) Friday 14 February, 1997. If you are assessed as eligible to sit for one or more challenge exams, you will be advised in writing of the date(s), time(s) and venue(s) for your exam(s).

Challenge exams for full year subjects and subjects offered in Semester 1 will be held on Thursday 27 February, Friday 28 February and Saturday 1 March, 1997. Results will be posted on the noticeboards in the relevant Schools/ Departments by the end of Week 1.

Challenge exams for subjects offered in Semester 2 will be held in the week beginning on Monday 3 March, 1997. Results will be posted on the noticeboards in the relevant Schools/Departments by the end of Week 2.

Credit based on other criteria

Credit transfer in other subjects is to be determined based on relevant documentation (e.g. record of previous academic study, publications, professional experience). The application for credit transfer in all these subjects (Form B) must be lodged with Student Administration (Cumberland) by Friday 14 February, 1997 with all relevant documentation attached. The results of applications for credit transfer not involving challenge exams will be advised before the end of the second week of Semester 1.

Discontinuation of Studies, Variation of Subjects and Leave of Absence

General

In making a decision to vary a course of study or apply for Leave of Absence or Discontinuation of Studies, it is often advisable for a student to discuss the situation with the Head, Student Welfare Services (Cumberland) or the Student Counsellor. While educational issues will be discussed within the School/Department, personal and family issues may also be involved and be equally important. Staff in Student Welfare are available to assist students in clarifying the reasons why changes in their academic programs may be necessary, especially where these are related to illness or misadventure, and in effective planning 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 Schools/Departments) and forward it, together with the completed "Exit Authority" to Student Administration (Cumberland). 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 Campus staff. Incomplete application forms will be returned to the student.

Unless forms are lodged before 31 March (In Semester 1) or 31 August (in Semester 2), the student will incur a Higher Education Contribution liability for the semester.

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, 31 March, 1997;
- b) For full-year subjects and Semester 2 only subjects by 31 August, 1997.

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 serious 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 (refer to the section on Fees and Charges - Refund of Fees).

Students who abandon their course after enrolment/re-enrolment and neglect to formally discontinue (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.

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 all undergraduate and postgraduate courses are processed directly by the Faculty and have a closing date of 1 December. For more information contact Student Administration (Cumberland).

Variation of Subjects

Variation of subjects refers to the addition and/or discontinuation of subjects and requires the approval of the Faculty.

Students must complete the "Application for Subject Variation" form (available from the Student Enquiries Counter or School/Department offices) and forward it to the Head, Student Administration (Cumberland). The form will not be accepted unless it contains the recommendation(s)/endorsement(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 31 March in Semester 1 or by 31 August in Semester 2. If the addition of any subjects is requested and approved after these dates, the student is required to discharge the increased liability on the same basis that the original HECS liability was to be discharged, that is 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 liability 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 31 March, 1997;
- b) For full-year subjects and Semester 2 only subjects, by 31 August, 1997.

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 with 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 without 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 serious 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 a 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 School/Department Offices) and forward it to Student Administration (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 Head of School/Department for a period of time (usually not exceeding two months) 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).

Students seeking Special Leave must apply in writing to their Head of School. Students who are granted Special Leave will be regarded as continuing in their currently enrolled subjects.

Examinations and Assessments

General

The term "assessment" shall include any assessment or examination conducted by the Faculty. Assessments may take the form of written assignments or examinations, as well as practical and oral assessments.

Assessments are conducted throughout the semester, as well as during approved assessment periods.

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.

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.

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 approval of the Head of School/Department through Student Administration (Cumberland) before proceeding overseas.

Approved Assessment Periods

Approved assessment periods shall include assessment:

- conducted in the traditional Week 15 and 16 assessment period; or
- any other assessment approved by the Head, Student Administration (Cumberland).

All assessments, with the exception of Post/Deferred assessments, are to be completed by the end of Week 16 of the semester in which a subject terminates.

Assessment Timetables

Provisional and Final Timetables for assessments scheduled in Weeks 15 and 16 of a semester will be displayed on the Official Notice Boards on Cumberland Campus.

Candidates are required to notify Student Administration (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 Cumberland Campus only.

Rules of Conduct of Written Examinations

Candidates will be admitted to the examination room ten minutes before the scheduled examination commencement time. During examinations in Weeks 15 and 16, candidates must sit in their allocated seats. During this period candidates may complete the following:

- a) Attendance Form - to be completed for each examination and placed on the top left hand corner of the desk for collection, immediately writing time commences. ID cards are to be placed on top of the attendance form.
- b) Answer booklets/Answer sheets/ Question papers - title pages and identification details are to be completed during this ten-minute period and, when necessary, during the actual writing time set down for the paper.

Writing will not be permitted during the scheduled reading time, nor after completion of the actual examination times, nor at any other times prescribed by the Presiding Officer.

No candidate will be admitted to the examination room after one-quarter of the examination writing period has elapsed nor 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 minutes before the time for the completion of the examination. When that time elapses, candidates must immediately cease writing.

The title page of each booklet must be fully completed. The booklets should be submitted 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 are not permitted to take bags, briefcases, folders, umbrellas, hats, mobile phones, pagers, 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 must also 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.

Reading Time

Reading time of ten 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.

Special Consideration

Occasionally, a student's performance in an assessment may be prejudiced by illness or misadventure. To apply for Special Consideration to be given in such a circumstance, students should obtain an Application for Special Consideration from the Student Enquiries Counter in "A" Block and the required documentation to support the application. The rules governing completion of the form and the requirements concerning supporting information are printed on the back of the form.

In general, the form, together with appropriate original documentation, should be lodged within one week of the assessment/examination period, unless circumstances beyond the student's control prevent it. For examinations run by Student Administration (Cumberland), four copies of the form and supporting documentation must be submitted at the Student Enquiries Counter. For examinations and assessments run by a School/Department during semester, applications relating to late submission of assignments or inability to attend class tests should be lodged with the Head of School/Department concerned.

Disability

Candidates suffering from a disability which puts them at a disadvantage in assessments may apply to Student Administration (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:

HD	High Distinction	indicates an outstanding level of achievement
D	Distinction	indicates an excellent level of achievement
CR	Credit	indicates an above average level of achievement
P	Pass	indicates an acceptable level of achievement
TP	Terminating Pass	indicates an acceptable level of achievement in an Honours subject when the student is transferring to the associated Pass program
I	Assessment Incomplete	indicates assessment in the subject is yet to be completed
AS	Pass with Advanced Standing	indicates a pass with advanced standing in the subject
X	Fail with Post granted	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	Pass	indicates a pass following Post Assessment
F	Fail	indicates failure to achieve the required standard of achievement
DA	Deferred Assessment	final assessment has been deferred because of misadventure or illness
WO	Discontinued without failure	permitted to discontinue subject without failure
WF	Discontinued with failure	discontinued subject with failure
ST	Satisfactory	These grades may be used in graduate courses by research and Master's degree Qualifying Programs
UN	Unsatisfactory	
SC	Subject Carried	Subject carried into a later year of the course (applicable only to research projects and treatises in postgraduate programs)
ZP	Pass on Pass/Fail Basis	Pass granted on a Pass/Fail Basis

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 Handbooks, are presented only in Semester 1.

End of Semester 2

Subjects that, according to the Faculty Handbooks, 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:

Grade	Percent
High Distinction	85 -100
Distinction	75-84
Credit	65-74
Pass	50-64
Fail	below 50

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.

	%	%	%
	High		
Subjects	Distinction	Distinction	Credit
1st Year	3	14	42
2nd Year	3	16	46
3rd Year	4	18	50

The proportions of merit grades may vary from subject to subject and from year to year, reflecting different capabilities of different CTOUDS.

Special Notes

- No results will be given by telephone.
- It is the student's responsibility to ascertain assessment results.
- Advice of a change of address will not be accepted unless iri writing and with the student's signature. Preferably, the Change of Address /Name form should be used.

Only students with an overseas home address who are not returning to their country of origin between semesters, will be permitted to change to 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.

Further, 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 Administration (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 Student Administration (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) may be granted by the Examiner (ie Head of School/Department) and held prior to the Board of Examiners meeting, or maybe 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 Student Administration (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 Student Administration (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 Student Administration (Cumberland), within fourteen 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 maybe 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-1.

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 as ineligible for an award "with Distinction".

Progression and Exclusion

Progression

To satisfy the academic requirements 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.

Students who do not follow normal progression in clinical education subjects may be required to undertake additional clinical education components to demonstrate skill maintenance at a level which satisfies the Head of School/Department. Successful completion of such additional components will be a pre-requisite to enrolment in the subsequent level of clinical education study.

Exclusion

1. Under the Resolutions of the Senate, the Faculty is authorised to require a student to show good cause why he or she should be allowed to repeat (a) a year of candidature in which he or she has failed or discontinued (with failure) more than once, or (b) any subject in which he or she has failed or discontinued (with failure) more than once.
2. Moreover, a student may be required to show good cause why he or she should be allowed to re-enrol in a course in the Faculty if, in the opinion of the Faculty, he or she has not made satisfactory progress towards fulfilling the requirements for that course.
3. While satisfactory progress cannot be defined in all cases in advance, a student who has not successfully completed all first year course requirements within two years (except for students with permission to enrol in the course on less than a full-time basis when the requirement refers to those subjects in the approved first year enrolment) shall be deemed not to have made satisfactory progress.

Notification of Pending Exclusion

Students who are found in a condition in which the Faculty may require them to "show good cause" why they should be allowed to re-enrol in their course and/or failed subject(s), shall be initially prompted, but not necessarily to be placed on 'Show Cause', by a message on their Assessment Notice. Students who are to be placed on 'Show Cause' will receive written notification from the Faculty. Students are permitted to re-enrol and/or continue enrolment until the final decision has been taken.

Showing Cause

Students so notified of pending exclusion may exercise the right to "show good cause" why they should be permitted to re-enrol. While it is not possible to define in advance all the reasons relevant to showing "good cause" against exclusion, serious ill health or misadventure (properly attested) will be considered. In addition, the general record of a student, for example in other subjects, would be taken into account. In particular, where a student has transferred from elsewhere in the University, regard will be given to their previous record. Such matters as the demands of employers, pressure of employment, time devoted to non-University activities, personal and financial problems, and so on, may be considered if relevant to any serious illness or misadventure. Apart from demonstrating the reasons for not making satisfactory progress, students are advised to indicate why they would be successful if permitted to re-enrol and what steps have been taken to resolve the preceding issues.

Appeal Against Exclusion by Faculty

A student notified of a decision by the Faculty to exclude them from re-enrolling in a course and/or subject(s) may appeal to the Senate's Appeals Committee (Exclusion and Re-admissions) by following the procedures set down in the University's Calendar.

The effect of the Faculty's exclusion decision will commence either (a) when the period in which an appeal to the Senate's has expired and the student has not lodged an appeal, or (b), in the event that the student appeals to the Senate within the prescribed period, the date on which the Senate's Appeals Committee rejects the appeal. Until the effect of the exclusion decision applies, the student is permitted to continue in all subjects in which the student is eligible to be enrolled.

Re-admission After Exclusion

An excluded student may apply for re-admission after two academic years. Students who are excluded from a course lose their status as registered students of the Faculty. Any subsequent application of re-admission to a course must be lodged with Student Administration (Cumberland) by 1 December of the year preceding the year of proposed re-admission. The application must include information indicating a readiness to return to tertiary study and will be considered in the light of all other applications received that year for that course.

Other Administrative Information

Conduct

Acceptance as a student in the Faculty implies an undertaking on the part of the student to observe the resolutions and rules of the Faculty and Statutes of the University of Sydney. Students are expected to conduct themselves in an acceptable manner. Smoking and eating are not permitted during lectures, tutorials, clinical sessions, examinations or in the Health Sciences Library.

Members of the staff on the Cumberland Campus, both academic and non-teaching, have a responsibility to maintain orderly and acceptable conduct and to report any breach of regulations occurring on the campus.

Misconduct on the Cumberland Campus will be dealt with under the rules of the Faculty and the Statutes of the University of Sydney.

Attendance at Classes

It is expected that students will attend classes as required by the subject co-ordinator. A student who has not satisfied the attendance requirements for a subject laid down by the School or Department in which the subject is offered may be refused permission to be considered for assessment or to sit for an assessment in that subject.

In the case of protracted illness or of absence arising from some other unavoidable cause, a student on presentation of appropriate documentation may be excused from attendance at classes by the Head of School or Department for a period not exceeding two months in any one year. In the case of absences in excess of two months, students must apply for Leave of Absence.

Insurance

Please refer to the Chapter on Clinical Education for information on insurance.

Change of Address

Students are required to notify Student Administration (Cumberland), of any changes in their addresses as soon as possible. Notice of a change of address will not be accepted unless in writing and over the student's signature. Preferably, the Change of Address /Name form should be used. The University cannot accept responsibility if official correspondence fails to reach a student who has not notified the Head, Student Administration (Cumberland), of a change of address.

Official Notices

Official notices (such as examination timetables) are displayed on the Official Notice Boards on the Cumberland Campus. Students are expected to be acquainted with the contents of those announcements which concern them.

The Official Notice Boards are located in the following buildings:

- A Block - northern entrance
- B Block - ground floor foyer
- H Block - ground floor foyer
- M Block - ground floor foyer
- R Block - outside main entrance
- S Block - ground floor foyer
- T Block - ground floor foyer

Student Records

Student records are issued with the authority of the Registrar by Student Administration (Cumberland). Student records shall include:

- end-of-semester Assessment Result Notices;
- transcripts of Academic Records;
- any other student records approved by the Head, Student Administration (Cumberland).

Transcripts of academic records are available to:

- individual students, upon written request;
- third parties, upon receipt of a written authority of the student; institutions or organisations approved by the Head, Student Administration (Cumberland) from time to time.

At graduation two transcripts will be issued free of charge. On other occasions, the issue of two transcripts costs \$10.00.

Course Work

Assignments, class exercises, practical work and other set work regarded as course requirements, will be assessed and will be included in the overall assessment of students at the conclusion of each assessment period. The relative weighting of components of the overall assessment will be the responsibility of the teaching School or Department.

Failure to complete assignments, class exercises or other set work will mean that the student may not be eligible for a passing grade in the subject concerned.

The Faculty reserves the right to retain at its own discretion a copy of any essay, thesis, or other work executed by students as part of their courses, or submitted for any award or competition conducted by the University.

Access to Buildings by Students After Hours

Approval for after hours access to buildings must be obtained from relevant Heads of Schools/Departments.

Appeals Against an Academic Decision

The Faculty of Health Sciences has established procedures whereby a student may appeal against an academic decision. While the application of these procedures usually relates to assessment matters, particularly following a Review of Results, this is not the only area in which an appeal may be initiated. If a student wishes to formally initiate an appeal against an academic decision, advice may be sought from the Resource Officer of the Cumberland Student Guild, the Head, Student Welfare Services (Cumberland), the Student Counsellor, or the Head, Faculty Office.

5 Department of Behavioural Sciences

The Department of Behavioural Sciences provides psychology, sociology and research methods subjects for students in all undergraduate courses in the Faculty. The staff bring specialised knowledge and experience to the teaching of these disciplines. Students are given a thorough grounding in those aspects of psychology and sociology relevant to client care. In addition there is a focus on the applications of psychological and sociological principles relevant to a range of situations including the psychosocial aspects of sport and recreation, and mental and physical illness.

Other subjects are designed to enable graduates to understand issues related to policy making and to organisations involved in health delivery systems. Ageing, ethnicity and concerns relating to special interest groups are

considered. The research methods strand enables graduates to read the professional literature critically and to conduct research in their chosen profession.

Postgraduate programs are offered by the Department leading to doctoral and masters degrees. These degrees are undertaken both by health professionals and by graduates with a major in either psychology or sociology. The staff of the Department have been extensively involved in research, including being the recipients of competitive grants; publishing research in international refereed journals and books; and organising national and international conferences on various aspects of behavioural medicine.

Summary of Behavioural Sciences Subjects

Number	Name	School.....	Page(s)
101A0	Health and Human Behaviour I	Community Health.....	8-7
101A2	Introduction to Psychology	Health Information Management.....	9-4
101A3	Introduction to Sociology	Health Information Management.....	9-4
101A4	Psychology of Human Performance	Physiotherapy.....	13-3
101A6	Psychology of Motor Behaviour	Physiotherapy.....	13-4
101A9	Introductory Psychology	Occupational Therapy.....	11-9
101B1	Cognitive Functioning	Occupational Therapy.....	11-9
101B2	Management of Behaviour	Occupational Therapy.....	11-9
101B4	Disability Studies I	Community Health.....	8-13
101B5	Introductory Psychology	Communication Disorders.....	7-4
101B6	Cognitive and Developmental Psychology	Communication Disorders.....	7-4
101B7	Research Methods and Statistics I	Communication Disorders.....	7-4
101B8	Disorders and their Management	Communication Disorders.....	7-4
101B9	Behavioural Science (Modified Course)	Communication Disorders.....	7-9
101C2	Introduction to Sociology	Occupational Therapy.....	11-2
101C3	Psychology I	Occupational Therapy.....	11-2
101C4	Sociology of Community and Family	Occupational Therapy.....	11-3
101C5	Research Methods I: Design	Physiotherapy.....	13-4
101C6	Psychosocial Aspects of Recreation and Sport	Exercise and Sport Science.....	14-2
101C9	Behavioural Science IA Introduction to Computing	Medical Radiation Technology.....	10-4
101D1	Behavioural Science IB Introduction to Psychology	Medical Radiation Technology.....	10-4
101D2	Behavioural Science IA Introduction to Sociology	Orthoptics.....	12-3
101D3	Behavioural Science IB Introduction to Psychology	Orthoptics.....	12-3
101D4	Health and Human Behaviour I	Community Health.....	8-12
10283	Behavioural Science II	Medical Radiation Technology.....	10-5
10284	Social Psychology	Health Information Management.....	9-5
10285	Health, Society and Social Change	Health Information Management.....	9-5
10286	Research Methods I: Design	Health Information Management.....	9-5
10287	Research Methods II: Data Analysis	Health Information Management.....	9-5
10288	Social Interaction, Communication and Personality	Physiotherapy.....	13-5
10293	Australian Society	Occupational Therapy.....	11-10
10294	Sociology of Health I	Occupational Therapy.....	11-10
10295	Research Methods and Design	Occupational Therapy.....	11-10
10296	Research Methods and Statistics	Occupational Therapy.....	11-10
10297	Behavioural Science II	Orthoptics.....	12-4

10298	Research Methods and Statistics	Orthoptics.....	12-4
10299	Research Methods and Designs	Orthoptics.....	12-4
102A1	Health and Human Behaviour II	Community Health.....	8-8
102A1	Health and Human Behaviour II	Community Health.....	8-13
102A2	Disability Studies II	Community Health.....	8-13
102A3	Cognitive Neuropsychology I	Communication Disorders.....	7-5
102A4	Research Methods and Statistics II	Communication Disorders.....	7-5
102A6	Clients, Work and Organisations	Occupational Therapy.....	11-4
102A7	Psychology of Disability I	Occupational Therapy.....	11-4
102A8	Psychology of Disability II	Occupational Therapy.....	11-4
102A9	Research Methods I	Occupational Therapy.....	11-4
102B0	Behaviour Modification and Exercise Adherence	Exercise and Sport Science.....	14-4
10392	Research Statistics	Physiotherapy.....	13-10
10393	Social Research	Community Health.....	8-8
10393	Social Research	Community Health.....	8-13
10394	Behavioural Science III	Medical Radiation Technology.....	10-6
10395	Psychology of Work and Management	Health Information Management.....	9-7
10396	Sociology of Work and Organisations	Health Information Management.....	9-7
10398	Social Theory and Health	Physiotherapy.....	13-6
103A3	Sociology of Health II	Occupational Therapy.....	11-11
103A4	Health Psychology	Occupational Therapy.....	11-11
103A6	Research Statistics	Orthoptics.....	12-6
103A7	Cognitive Neuropsychology II	Communication Disorders.....	7-6
103A8	Sociology	Communication Disorders.....	7-6
103A9	Patient Management: Theories and Applications	Communication Disorders.....	7-6
103B1	Patient and Health Psychology	Communication Disorders.....	7-7
103B2	Behavioural Science III (Honours)	Medical Radiation Technology.....	10-8
103B4	Honours Research Methods Individual Studies I	Communication Disorders.....	7-9
103B5	Research Methods II	Occupational Therapy.....	11-5
103B6	Sociology of the Aged and Ageing	Occupational Therapy.....	11-5
103B7	Psychology II	Occupational Therapy.....	11-5
103B9	Research Methods II Data Analysis	Physiotherapy.....	13-6
10457	Health, Medicine and Society	Physiotherapy.....	13-7
10465	Psychology of Adulthood and Ageing	Occupational Therapy.....	11-12
10466	Social Psychology	Occupational Therapy.....	11-12
10467	Sociology Elective	Occupational Therapy.....	11-12
10475	Research Methods and Statistics	Medical Radiation Technology.....	10-8
10479	Health Psychology	Physiotherapy.....	13-7
10480	Honours Research Methods Individual Studies II	Communication Disorders.....	7-9
10503	Intermediate Statistics	Health Information Management.....	9-7
10503	Intermediate Statistics	Medical Radiation Technology.....	10-9
10504	Multivariate Statistics	Medical Radiation Technology.....	10-9
10504	Multivariate Statistics	Appendix 1.....	A-2
10505	Qualitative Research Methods	Medical Radiation Technology.....	10-9
10505	Qualitative Research Methods	Appendix 1.....	A-2
10514	Survey Research Methods	Medical Radiation Technology.....	10-9
10514	Survey Research Methods	Appendix 1.....	A-2
10551	Developing a Research Project	Orthoptics.....	12-6
10551	Developing a Research Project	Appendix 1.....	A-2
10552	Group and Single Case Experimental Research in Clinical Settings	Appendix 1.....	A-2

6 Department of Biomedical Sciences

The Department of Biomedical Sciences incorporates biophysics, biochemistry, basic biology, human anatomy and physiology, pathophysiology, microbiology. Since its inception in 1973, the Department has provided training in these basic and applied sciences relevant to undergraduate students in the different professions studying on this campus. Subject material in many of the Faculty's Diploma, Graduate Diploma and Masters courses is taught by the Department.

Postgraduate students may enrol in the Department's own program, Master of Applied Science (Human Biomedical Sciences) by Research. In addition, PhD supervision is available in various areas of staff research expertise.

Summary of Biomedical Sciences Subjects

Number	Name	School	Page(s)
111 A3	Fundamental Computer Skills.	Exercise and Sport Science.....	14-3
111A4	Data Management and Presentation	Exercise and Sport Science.....	14-3
11158	Introductory Human Biology	Physiotherapy.....	13-4
11161	Body Systems I	Physiotherapy.....	13-4
11162	Basic Human Biology I	Health Information Management.....	9-4
11171	Radiation Physics	Medical Radiation Technology.....	10-4
11172	Functional Anatomy A	Physiotherapy.....	13-4
11173	Functional Anatomy B	Physiotherapy.....	13-4
11174	Anatomy of Body Systems	Medical Radiation Technology.....	10-4
11175	Biological Sciences I	Community Health.....	8-13
11176	Introductory Human Biology	Orthoptics.....	12-3
11176	Introductory Human Biology	Communication Disorders.....	7-4
11176	Introductory Human Biology	Occupational Therapy.....	11-9
11177	Musculoskeletal Anatomy	Occupational Therapy.....	11-9
11178	Introductory Neurobiology	Occupational Therapy.....	11-9
11178	Introductory Neurobiology	Orthoptics.....	12-3
11178	Introductory Neurobiology	Communication Disorders.....	7-4
11179	Neurobiology I	Orthoptics.....	12-3
11179	Neurobiology I	Communication Disorders.....	7-4
11179	Neurobiology I	Occupational Therapy.....	11-9
11180	Optics I	Orthoptics.....	12-3
11181	Body Systems I	Orthoptics.....	12-3
11181	Body Systems I	Communication Disorders.....	7-5
11182	Optics H	Orthoptics.....	12-3
11183	Biological Sciences I	Occupational Therapy.....	11-3
11184	Biological Sciences I	Community Health.....	8-8
11186	Body Structure, Homeostasis & Movement	Exercise and Sport Science.....	14-3
11187	Molecules, Food and Energy	Exercise and Sport Science.....	14-3
11190	Speech and Hearing Science	Communication Disorders.....	7-5
11191	Introductory Neurobiology	Physiotherapy.....	13-4
11192	Neurobiology I	Physiotherapy.....	13-4
11193	Introductory Human Biology	Medical Radiation Technology.....	10-4
112A2	Biological Science II	Community Health.....	8-13
112A7	Neurobiology II	Occupational Therapy.....	11-10
112A8	Body Systems I	Occupational Therapy.....	11-11
112B1	Introductory Pathology	Orthoptics.....	12-4
112B2	Ocular Biology	Orthoptics.....	12-4
112B3	Neurobiology II for Communication Disorders	Communication Disorders.....	7-5
112B4	Visual Neurobiology	Orthoptics.....	12-4
112B5	Pathophysiology	Medical Radiation Technology.....	10-5
112B6	Tumour Pathology	Medical Radiation Technology.....	10-5
112B7	Biological Sciences II	Occupational Therapy.....	11-4

112B8	Biological Sciences II	Community Health.....	8-8
112C5	Kinesiology and Applied Anatomy	Exercise and Sport Science.....	14-4
112C7	Hormones, Metabolism and Exercise	Exercise and Sport Science.....	14-5
11283	Basic Human Biology II	Health Information Management.....	9-5
11286	Body Systems II	Physiotherapy.....	13-5
11287	Neurobiology II	Physiotherapy.....	13-5
11374	Body Systems III	Physiotherapy.....	13-6
11381	Biological Sciences III	Community Health.....	8-13
11382	Body Systems II	Occupational Therapy.....	11-12
11384	Neurology for Communication Disorders	Communication Disorders.....	7-7
11385	Biological Sciences III	Occupational Therapy.....	11-5
11386	Bio-electrical Signals and Computing	Orthoptics.....	12-5
11387	Embryology and Neural Plasticity	Orthoptics.....	12-5
11388	Biological Sciences III	Community Health.....	8-8
11466	Visual Science	Orthoptics.....	12-6

7 School of Communication Disorders

The School of Communication Disorders was among the first group of professional schools to be established when, what was then a 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 H 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 (Speech Pathology) course. 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. Within the Bachelor of Applied Science course in Speech Pathology, the School offers an Honours Program. This program 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.

In contrast to the undergraduate course, at the postgraduate level the Master of Communication Disorders course provides speech pathologists with the opportunity to develop specialisation in a clinical area via research. 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, administrators, academics, or researchers in the field of communication sciences and disorders. In both programs topics are individualised for students in order for them to meet their specific career objectives.

At the PhD level, study is directed to focus research on an area of communication sciences and disorders. Individuals with PhDs in this area find rewarding careers in academic, research and clinical settings.

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 part of this Clinic. Other unique facilities are student units located in various hospitals and centres in the Sydney metropolitan and country NSW areas.

The School's Speech Science Laboratory is also housed in the on-campus specialist area. The Laboratory is designed to support research activities of academic staff, postgraduate and Honours students, and undergraduate teaching. It also provides services for the on-campus clinic with facilities for clinical speech measurement. Programs in the Laboratory are focused on measurement of disordered speech using the Laboratory's modern technology: a powerful digital speech analysis system, laryngograph, visipitch and nasometer, all supported by computers. Access to a variety of speech databases on CD ROM is available. High quality speech recordings can be made in the Laboratory's sound-treated studio, using either analog or digital technology. Other desktop computing facilities are available in the School.

Information about the School and its courses of study can be obtained from Student Administration (Cumberland), 9 351 9161, or from the Admissions Co-ordinator in the School of Communication Disorders, 9 351 9450.

Table 7.1 Bachelor of Applied Science (Speech Pathology)**Course****Code Mode of Offer**1206 *Pass Course; Full-time, 4 years*1207 *Modified Course; Full-time, 2 h years*1217 *Honours Course; Full-time, 4 years***Pass Course**

		Total	Sem 1	Sem 2
<i>Year 1</i>				
101B5	Introductory Psychology	42	42	-
101B6	Cognitive and Developmental Psychology	56	14	42
101B7	Research Methods and Statistics I	42	42	-
101B8	Disorders and their Management	56	-	56
11176	Introductory Human Biology	56	56	-
11178	Introductory Neurobiology	28	28	-
11179	Neurobiology I	28	-	28
11181	Body Systems I	56	-	56
11190	Speech and Hearing Science	70	30	40
12124	Linguistics	42	21	21
12125	Professional Development I: Introduction to Clinical Learning	21	7	14
12126	Phonetics I	21	21	-
12127	Stuttering I	35	35	-
12128	Normal Communication Development	35	-	35
<i>Stage Total</i>		588	296	292
<i>Year 2</i>				
102A3	Cognitive Neuropsychology I	21	21	-
102A4	Research Methods and Statistics II	56	28	28
112B3	Neurobiology II for Communication Disorders	56	56	-
12278	Voice Science and Disorders	49	21	28
12279	Research in Communication Disorders	14	14	-
12280	Language Impairments in Children I	42	21	21
12281	Articulation and Phonology	35	35	-
12282	Professional Development II: Clinical Skills	42	21	21
12283	Phonetics II	28	28	-
12285	Speech Impairments of Neurological Origin	28	-	28
12286	Language Impairments of Neurological Origin I	14	-	14
12287	Speech Pathology Clinical I	52	21	31
12288	Audiology	42	-	42
<i>Stage Total</i>		479	266	213
<i>Year 3</i>				
103A7	Cognitive Neuropsychology II	28	28	-
103A8	Sociology	56	28	28
103A9	Patient Management: Theories and Applications	70	28	42
103B1	Social and Health Psychology	56	-	56
11384	Neurology for Communication Disorders	14	14	-
12325	Audiological Management I	35	35	-
12326	Audiological Management II	35	-	35
12327	Language Impairments of Neurological Origin II	56	56	-
12328	Communication Impairments in Special Populations	42	42	-
12329	Language Impairments in Children II	14	-	14
12331	Stuttering II	21	-	21
12333	Clinical Technology	21	-	21
12335	Speech Pathology Clinical II: Adult	130	23	107 ¹
12336	Professional Development III: Management Skills	21	7	14
12337	Speech Pathology Clinical II: Child	46	23	23
12338	Craniofacial Anomalies	21	21	-
<i>Stage Total</i>		666*	305	361

Year 4

12422	Advanced Topics	56	56 ²	-
12423	Professional Development rV: Advanced Issues	70	63 ²	7 ¹
12424	Speech Pathology Clinical III: Child	311	143 ²	168 ²
12425	Speech Pathology Clinical III: Adult	168	-	168 ²
<i>Stage Total</i>		605	262	343

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. Students in year 4 of the course are divided into either group A or B.

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

Modified Course*Year 2 (last offered in 1997)*

112B3	Neurobiology II for Communication Disorders	56	56	-
11384	Neurology for Communication Disorders	14	14	-
12278	Voice Science and Disorders"	49	21	28
12280	Language Impairments in Children I	42	21	21
12281	Articulation and Phonology	35	35	-
12325	Audiological Management I	35	35	-
12326	Audiological Management II	35	-	35
12327	Language Impairments of Neurological Origin II	56	56	-
12328	Communication Impairments in Special Populations	42	42	-
12329	Language Impairments in Children II	14	-	14
12330	Professional Development III: Management Skills	14	7	7
12331	Stuttering II	21	-	21
12333	Clinical Technology	21	-	21
12337	Speech Pathology Clinical II: Child	46	23	23
12338	Craniofacial Anomalies	21	21	-
12422	Advanced Topics	56	56	-
<i>Stage Total</i>		557	387	170

Year 3 (last offered in 1998)

12423	Professional Development IV: Advanced Issues	70	70	-
12424	Speech Pathology Clinical III: Child	311	311 ²	-
12425	Speech Pathology Clinical III: Adult	168	168 ²	-
<i>Stage Total</i>		549	549	

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 Program - Additional Subjects*Year 3*

103B4	Honours Research Methods Individual Studies I	7	-	7
12339	Honours Research Seminar I	28	14	14
<i>Stage Total</i>		35	14	21

Year 4

10480	Honours Research Methods Individual Studies II	28	-	28
12429	Honours Research Seminar II	56	56	-
12430	Honours Thesis	-	-	-

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 pre-requisites for admission to the Bachelor of Applied Science (Speech Pathology) course. The general admission requirements in Chapter 3 apply. However, prospective students would benefit from undertaking 2 unit English, and one of 2 unit Chemistry, or 3/4 unit Science at HSC level.

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. The last intake into the Modified Course was in 1996.

Course Outline

The course outline for the Bachelor of Applied Science (Speech Pathology) is presented in Table 7.1.

Subject Descriptions

Yearly _____

101B5 Introductory Psychology

Semester 1 - 42 hours

This subject provides an introduction to areas of psychology relevant to health professionals. Major topic areas include consciousness and perception, intelligence, principles of learning, motivation and emotion, personality, developmental psychology, social psychology, and health psychology.

101B6 Cognitive and Developmental Psychology

Semester 1 - 14 hours

Semester 2 - 42 hours

This subject 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 strand 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 students 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 subject 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*

This subject covers the nature of the primary (oral) human communication system, with a small section on other types of communication. Both formal and functional linguistic theories will be covered. Areas include concepts in phonology, syntax, lexical semantics, and a variety of ways of looking at interactive communication such as pragmatic theories, conversational analysis, systemic-functional linguistics including genre and register, discourse analysis and text linguistics. There is skill-based segment in the course involving traditional analysis of syntax (grammar), for which attendance is required.

12125 Professional Development I: Introduction to Clinical Learning*Semester 1-7 hours**Semester 2-14 hours*

This subject introduces students to the learning orientation and professional communication skills necessary for the course and professional practice. It provides structured observations of speech pathology clinics. Students begin the required accumulation of professional development experiences required for their *portfolio* through involvement in relevant professional, community, or clinical services. Students become involved in the funning and maintenance of the clinical Tests and Materials collection. They must show evidence of completion of an accredited First Aid Course (CPR). In semester 2, students attend classes which introduce them to basic clinical processes.

12126 Phonetics I*Semester 1-21 hours*

Phonemic and phonetic transcription of normal and deviant spoken Australian English, using the International Phonetic Alphabet. Articulatory phonetics and suprasegmental features.

12127 Stuttering!*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); Phonetics I (12126)

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)

Students undertake interdisciplinary professional observations. They continue the required accumulation of professional development experiences, required for their *portfolio*, through involvement in relevant professional, community, or clinical activities. Students continue to be involved in the running and maintenance of the clinical Tests and Materials collection. Students attend lectures and tutorials which consider issues related to their concurrent clinical practice.

12283 Phonetics II

Semester 1 - 28 hours

Recommended Background Subjects 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.

12285 Speech Impairments of Neurological Origin

Semester 2 - 28 hours

Recommended Background Subject Neurobiology II for Communication Disorders (112B3)

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 clinic. 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. Toward the end of the semester, students may begin to implement some therapy tasks, after modelling and with guidance from their advanced student or clinical educator. In semester 2, students continue

in the on-campus clinic, working with two or more child clients with articulation or phonological disorders or stuttering. If students worked with a child with language problems in semester 1, they may carry over this client into semester 2. Students also attend supervisory conferences with their clinical educators and other students.

12288 Audiology

Semester 2 - 42 hours

Pre-requisite Speech & Hearing Science (11190)

This subject 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.

Year3

103A7 Cognitive Neuropsychology II

Semester 1-28 hours

Pre-requisite Cognitive Neuropsychology I (102A3)

This subject 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, sickrole 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 pathology. 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, and critically appraise them in the light of available evidence. The third strand comprises psychological assessment, and aims to develop skills in the critical evaluation of test theory and test construction, administration, reliability and validity, with special reference to speech and language tests.

103B1 Social and Health Psychology

Semester 2 - 56 hours

Pre-requisite Introductory Psychology (101 BS)

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 II 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)

Theoretical and clinical issues related to sensory aids for the hearing impaired, and assessment and intervention of the communication problems of hearing-impaired adults.

12326 Audiological Management II

Semester 2 - 35 hours

Pre-requisite Audiology (12288)

Recommended Background Subjects Articulation and Phonology (12281), Language Impairments in Children I (12280), Audiological Management I (12325)

Theoretical and clinical issues related to assessment and intervention of the communication problems of children with acquired and congenital hearing loss.

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 impairments in children.

12331 Stuttering II

Semester 2 - 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.

12333 Clinical Technology

Semester 2 - 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.

12335 Speech Pathology Clinical II: Adult

Semester 1 - 23 hours

Semester 2 - 107 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 II: Clinical Skills (12282)

Students work with adult clients with a variety of communication disorders. These clients would not normally have acute neurological conditions. Students also attend supervisory conferences with their clinical educators. Students are placed in the on-campus clinic for this portion of the subject. Students are also rostered through the Speech and Language Assessment Clinic in one semester and the Audiology Assessment Clinic in the other semester. On completion of Voice Science and Disorders (12278) students may begin observations in hospital voice clinics affiliated with the School. These visits may continue throughout years three and four of the course.

As part of semester 2 hours, students complete a four days per week, three-week block placement in an adult hospital clinic. This placement will occur at either mid- or end-of-year, after the student has completed Language Impairments of Neurological Origin II (12327). Students will work with adult clients, attend supervisory conferences and participate in a variety of clinical activities.

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 lectures and tutorials on aspects of caseload management, professional issues, and communication and counselling skills involved in working with adult clients and caregivers. Students continue the required accumulation of professional development experience required for their *portfolio* through involvement in relevant professional, community, or clinical activities. Students continue to be involved in the running and maintenance of the clinical Tests and Materials collection.

12337 Speech Pathology Clinical II: Child

Semester 1-23 hours

Semester 2-23 hours

Pre-requisites Speech Pathology Clinical I (12287), Language Impairments in Children (12280), Articulation and Phonology (12281), Professional Development II: Clinical Skills (12282)

Students work with child clients with a variety of communication disorders. At least one of these clients will be a child with a language disorder. Students also attend supervisory conferences with their clinical educators and other students. Students are placed in the on-campus clinic for this subject. In semester 2, students begin to assume responsibility for management of children with more complex disorders. Students are also rostered through the Speech and Language Assessment Clinic in one semester and the Audiology Assessment Clinic in the other semester.

12338 Craniofacial Anomalies

Semester 1-21 hours

Recommended Background Subjects Speech and Hearing Science (11190); Voice Science and Disorders (12278)

Problems of craniofacial anomalies, relevant nose, throat and orthodontic pathologies and their effects on communication; implications for assessment and management.

Year 4

12422 Advanced Topics

Semester 1 or 2-56 hours

This subject is comprised of four separate seminar segments, each of fourteen hours. Students elect to participate in four of a selection of advanced topics as determined by the relevant lecturers from the core areas previously studied in speech pathology and audiology. The focus is on advanced thinking in each area presented.

Note: This subject may be reversed across each semester as only half the students participate at one time.

12423 Professional Development IV: Advanced Issues

Semester 1 or 2- 63 hours (on-campus semester)

Semester 1 or 2 - 7 hours (off-campus semester)

Pre-requisites Professional Development III: Management Skills (12336)

Recommended Background Subjects Speech Pathology Clinical II: Child; Speech Pathology Clinical II: Adult

During their "on-campus" semester, students select seminars from topics such as administration, computers and technology application to clinical practice and management, health promotion, quality assurance, casemix, clinical education, rural health issues. They complete the required accumulation of professional development experiences required for their *portfolio* throughout involvement in relevant professional, community, or clinical activities. At the completion of their "off-campus" semester, students participate in debriefing tutorials on-campus or in other debriefing activities as agreed upon in advance by the Director of Clinical Education.

Note: These hours may be reversed across each semester as only half of the students participate at any one time.

12424 Speech Pathology Clinical III: Child

Pre-requisite Speech Pathology Clinical II: Child (12337)

Semester 1 or 2-143 hours (on-campus semester)

This subject is undertaken by half the enrolled students in semester 1 and by the other half in semester 2 during their "on-campus" semester. Students manage a varied client caseload and participate in a variety of clinical management and clinical service activities in the on-campus clinic. They participate in supervisory conferences on a regular basis and maybe involved in the introductory clinical experiences of beginning students. Students also participate in the Advanced Assessment Clinic.

Semester 1 or 2-168 hours (off-campus semester)

This subject is undertaken by half the enrolled students in semester 1 and by the other half in semester 2 during their "off-campus" semester. Students are placed in an off-campus clinic, hospital, or other setting for four days per week for six weeks. They manage a varied client caseload and participate in a variety of clinical management, clinical service, and multidisciplinary team activities. They participate in supervisory conferences on a regular basis.

12425 Speech Pathology Clinical III: Adult

Semester 1 or 2-168 hours (off-campus semester)

Pre-requisites Speech Pathology Clinical Adult (12335), Language Impairments of Neurological Origin II (12327)

This subject is undertaken by half the enrolled students in semester 1 and by the other half in semester 2 during their "off-campus" semester. Students are placed in an off-campus clinic, hospital, or other setting for four days per week for six weeks. They manage a varied client caseload and participate in a variety of clinical management, clinical service, and multidisciplinary team activities. They participate in supervisory conferences on a regular basis.

Note: Students must obtain a minimum of 300 hours of "face-to-face" client contact hours prior to graduation.

Honours Program

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

Students in the Honours Program complete all year three and year four subjects in the Pass Program, except Advanced Topics (12422) from which they are exempt as long as they remain in the Honours Program. Students in the Honours Program are, however, encouraged to audit this subject. In addition, students in the Honours Program complete the following:

Year 3

103B4 Honours Research Methods Individual Studies I

•*Semester 2 - 7 hours*

Pre-requisite Admission to the Honours Program

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

Semester 2-14 hours

Pre-requisite Admission to the Honours Program

This seminar is designed to assist Honours students with the development of their individual research projects for completion of their theses in year four. 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 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 Program 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

The last intake for this course was in 1996.

Course Outline

The course outlines for the Modified Course are presented in Table 7.1.

Subject Descriptions

Yearly

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. Last offered 1996.

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: Last offered 1996.

Tears 2 and 3

Refer to 4-year Pass Course for subject descriptions.

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 the on-campus clinic 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.

1997 Clinical Practice Dates

Year 2

Pre-Semester 1

Clinic Orientation

Thursday & Friday February 26-28

Semester 1

As arranged

March 3 - June 6

Pre-Semester 2

Clinic Orientation

Thursday & Friday August 7 - 8

Semester 2

As arranged

August 11 - November 14

Year 3

Pre-Semester 1

Clinic Orientation

Thursday & Friday February 26-28

Semester 1

As arranged

March 3 - June 6

Inter-Semester

3 weeks June 30 - August 6 OR

3 weeks December - February

Pre-Semester 2

Clinic Orientation

Thursday & Friday August 7-8

Semester 2

As arranged

August 11 - November 14

Year 4

Pre-Semester 1

(only for students spending Semester 1 on-campus)

Clinic Orientation

Thursday & Friday February 26-28

Semester 1 or 2

As arranged

March 3 - June 6 OR

August 11 - November 14

Pre-Semester 2

(only for students spending Semester 2 on-campus)

Clinic Orientation

Thursday & Friday August 7-8

Semester 2 or 2

12 weeks

March 3-May 30 OR

August 11 - November 7

8 School of Community Health

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 Science is designed for students who aspire to work 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. The first of these specialist streams in Rehabilitation Counselling commenced in 1991. Professional training in rehabilitation counselling however had taken place at the associate diploma and post graduate level at Cumberland

College of Health Sciences since the mid 1970s.

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. In 1994 Distance Education studies in Rehabilitation Counselling at the Graduate Diploma and Masters levels were introduced. Further information about the School's programs may be obtained from the School on 9 351 9565.

Table 8.1 Diploma of Health Science (Aboriginal Health and Community Development)

<i>Course</i>			Total Hours	On Campus	Off Campus
<i>Code</i>	<i>Mode of Offer</i>				
0808	<i>Part-time; 2 years, plus Full-time; 1 year (students commencing before 1996)</i>				
0867	<i>Full-time; 2 years block attendance, plus off-campus</i>				
<i>Year 3 (last offered in 1997)</i>					
08304	Elective Studies		240 ¹	120	120
08305	Elective Study Independent Project		375	187	188
		<i>Stage Total</i>	<i>615</i>	<i>307</i>	<i>308</i>
<i>Year 1 (to be first offered in 1997)</i>					
08177	Perspectives in Indigenous Health I		85	32	53
08179	Communication Studies I		85	32	53
08180	Primary Health Care I		85	32	53
08181	Community Development I		85	32	53
08182	Counselling I		85	32	53
08183	Elective Studies IA		85	32	53
08184	Elective Studies IB		85	32	53
08185	Field Education I		70		
		<i>Stage Total</i>	<i>665</i>	<i>224</i>	<i>371</i>

08260	Perspectives in Indigenous Health II	85	32	53
08261	Communication Studies II	85	32	53
08262	Primary Health Care II	85	32	53
08263	Community Development II	85	32	53
08264	Counselling II	85	32	53
08265	Elective Studies HA	85	32	53
08266	Elective Studies IIB	85	32	53
08267	Field Education II	70		
<i>Stage Total</i>		<i>665</i>	<i>224</i>	<i>371</i>

Notes

¹ Includes two 60-hour field experience placements.

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 in block mode over 2 years. Students attend the Faculty for four two-week blocks each year as well as completing two weeks of field placements each year.

Admission Requirements

In general the kind of applicant sought is one with an appropriate life experience, motivated to work effectively with Aboriginal communities and possessing those personal attributes required to liaise with government departments 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

08304 Elective Studies

Full year - 240 hours

In this subject, students select four elective studies. Each of these involves 30 hours of classroom and community based study. 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; Mental Health.

Each of the electives 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

Full year - 375 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.

08177 Perspectives in Indigenous Health I

Full year - 85 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 subject 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 program. 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 ways relationships were established. The subject will be based on case studies from around Australia that illustrate the diversity of experience across the continent.

08179 Communication Studies I

Full year - 85 hours

The process of communication is studied, including verbal and non-verbal forms of communication in Aboriginal communities, academic institutions and professional contexts. Skills developed include: oral presentation skills, technical and professional writing skills, computer literacy and information gathering skills.

08180 Primary Health Care I

Full year - 85 hours

This subject 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.

08181 Community Development I

Full year - 85 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 & 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 develop a profile of an Aboriginal community.

08182 Counselling I

Full year - 85 hours

This subject will introduce students to the basic skills of communication and counselling. It aims to assist students to develop a broad concept of what counselling is and how it is practised in the Context of the Aboriginal Health and Community Development.

08183 Elective Studies IA

Full year - 85 hours

11184 Biological Sciences I will be offered as Elective Studies Ia in 1997. 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.

08184 Elective Studies IB

Full year - 85 hours

Drugs and Alcohol I will be offered as Elective Studies Ib in 1997. 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.

08185 Field Education I

Full year - 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 program and is designed to formulate the integration of theoretical concepts and skills learnt during the program.

08260 Perspectives in Indigenous Health II

Full year - 85 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 memory of life in twentieth century institutions is present in many Aboriginal lives today. In present times formalised institutions for Aborigines are deemed negative, however covert institutionalisation of Aborigines is perpetuated today. The subject also examines the nature and function of government agencies for Aborigines since 1967. As well as seeing the creation of the Aboriginal Affairs portfolio in the Federal movement, we have witnessed the development of various policies and strategies for Aborigines at local, State and national level. Aboriginal participation in Government agencies is examined.

08261 Communication Studies II

Full year - 85 hours

This subject further examines the process of communication including verbal and nonverbal factors. Students will study the processes of communication within the mass media, and organisations as they relate to Aboriginal health.

08262 Primary Health Care II

Full year - 85 hours

This subject will focus on issues of ill health in indigenous communities across Australia. Today Aboriginal people are suffering from both third world and modern illnesses as fourth world (minority) citizens of Australia. This subject focuses on issues of health and human behaviour that are of particular interest to the Aboriginal Health Worker.

08263 Community Development II

Full year - 85 hours

Students will develop skills for community development planning. Students will write community development strategic plans address issues in Aboriginal health, and how to plan projects.

08264 Counselling II

Full year - 85 hours

The aim of this subject is to focus on the development of a variety of counselling techniques and methods. This subject will assist students to develop a clear understanding of the counselling component of role in the Aboriginal health and community development workers

08265 Elective Studies IIA

Full year - 85 hours

11184 Biological Sciences II will be offered as Elective Studies Ha in 1997. 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. In this subject students select two elective studies. Each of these involves classroom work and off campus based study. The elective studies may include: Wellness and Mental Health; Indigenous Computing; Sexual Health; Women's Health; Men's Health; Drug & Alcohol; Community Care.

08266 Elective Studies IIB

Full year - 85 hours

Drugs and Alcohol II will be offered as Elective Studies lib in 1997. The 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.

08267 Field Education II

Full year-70 hours

This subject is an essential component in the process of developing competence as Aboriginal Health and/or Community Development workers. It provides a graduated program which spans the three years of the program and is designed to formulate the integration of theoretical concepts and skills learnt during program work.

**Table 8.2 Bachelor of Health Science
(Aboriginal Health and Community Development)**

<i>Course Code</i>		<i>Mode of Offer</i>	Total		
0856		<i>Pass Course; Full-time, block attendance, 3 years</i>			
0857		<i>Honours Program; Full-time, block attendance, 4 years</i>			
Year 1					
08129	Australian Society and Health		56	28	28
08130	Introduction to Health Research and Ethics		56	28	28
08152	Perspectives in Indigenous Health I		56	28	28
08153	Community Development I		56	28	28
08154	Counselling I		56	28	28
08155	Primary Health Care I		56	28	28
08156	Field Experience I		70 ¹	35	35
101A0	Health and Human Behaviour I		56	28	28
11184	Biological Sciences I		56	28	28
		<i>Stage Total</i>	<i>518</i>	<i>259</i>	<i>259</i>
Year 2					
08243	Indigenous Health Promotion		56	28	28
08244	Epidemiology		56	28	28
08250	Perspectives in Indigenous Health II		56	28	28
08252	Counselling II		56	28	28
08253	Primary Health Care II		56	28	28
08254	Field Experience II		70	35	35
08259	Community Development II		56	28	28
102A1	Health and Human Behaviour II		56	28	28
112B8	Biological Sciences II		56	28	28
		<i>Stage Total</i>	<i>518</i>	<i>259</i>	<i>259</i>
Year 3					
08306	Health Planning Policy and Evaluation		56	28	28
08307	Contemporary Issues in Health, Law and Medicine		56	28	28
08314	Perspectives in Indigenous Health III		56	28	28
08315	Community Development III		56	28	28
08316	Counselling III		56	28	28
08317	Primary Health Care III		56	28	28
08318	Field Experience III		112 ²	56	56
10393	Social Research		56	28	28
11388	Biological Sciences III		56	28	28
		<i>Stage Total</i>	<i>560</i>	<i>280</i>	<i>280</i>
Honours Program - Additional Subjects					
Year 3					
	Research Elective ³		42	21	21
Year 4					
08496	Honours Workshop		42	21	21
08498	Thesis		-		
	Research Elective ³		42	21	21

**Table 8.2.1 Bachelor of Health Science
(Aboriginal Health and Community Development)**

<i>Course Code</i>		<i>Mode of Offer</i>	Total		
0853		<i>Pass Course; Full-time, 4 years block attendance</i>			
0858		<i>Honours Program; Full-time, 5 years block attendance</i>			
<i>Year 1</i>					
08129	Australian Society and Health		56	28	28
08152	Perspectives in Indigenous Health I		56	28	28
08153	Community Development I		56	28	28
08155	Primary Health Care I		56	28	28
08156	Field Experience I		70 ¹	35	35
101A0	Health and Human Behaviour I		56	28	28
11184	Biological Sciences I		56	28	28
	<i>Stage</i>	<i>Total</i>	406	203	203
<i>Year 2</i>					
08130	Introduction to Health Research and Ethics		56	28	28
08154	Counselling I		56	28	28
08243	Indigenous Health Promotion		56	28	28
08250	Perspectives in Indigenous Health II		56	28	28
08254	Field Experience II		70 ¹	35	35
102A1	Health and Human Behaviour II		56	28	28
112B8	Biological Sciences II		56	28	28
	<i>Stage</i>	<i>Total</i>	406	203	203
<i>Year 3</i>					
08244	Epidemiology		56	28	28
08252	Counselling II		56	28	28
08253	Primary Health Care II		56	28	28
08259	Community Development II		56	28	28
08314	Perspectives in Indigenous Health III		56	28	28
10393	Social Research		56	28	28
	<i>Stage</i>	<i>Total</i>	336	168	168
<i>Year 4</i>					
08306	Health Planning, Policy and Evaluation		56	28	28
08307	Contemporary Issues in Health, Law and Medicine		56	28	28
08315	Community Development III		56	28	28
08316	Counselling III		56	28	28
08317	Primary Health Care III		56	28	28
08318	Field Experience III		112 ²	56	56
11388	Biological Sciences III		56	28	28
	<i>Stage</i>	<i>Total</i>	448	224	224
Honours Program - Additional Subjects					
<i>Year 4</i>					
	Research Elective ³		42	21	21
<i>Year 5</i>					
08496	Honours Workshop		42	21	21
08498	Thesis		-		
	Research Elective ³		42	21	21

Notes

¹ Two week block during the year

² Three week block during first semester

³ Research Elective - Students select two of the subjects, one for each year (subject to sufficient student numbers). For list of Research Electives see Appendix 1.

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 Aboriginal communities. Community participation and initiative are strongly emphasised.

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

The Bachelor of Health Science (Aboriginal Health and Community Development) course is offered in a three year and a four year program. Both are full-time block attendance programs, with students in the three year program attending additional study blocks.

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 outlines for the Bachelor of Health Science (Aboriginal Health and Community Development) are presented in Tables 8.2 and 8.2.1.

Subject Descriptions

08129 Australian Society and Health

Full year - 56 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.

08130 Introduction to Health Research and Ethics

Full year - 56 hours

This subject provides an introduction to the principles and processes of health research. It is designed to give students 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 (including qualitative and quantitative) and theories and philosophies of science.

08152 Perspectives in Indigenous Health I

Full year - 56 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

Full year - 56 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. Students will develop a profile of an Aboriginal community.

08154 Counselling I

Full year - 56 hours

This subject will introduce students to the basic skills of communication and counselling. It aims to assist students to develop a broad concept of what counselling is and how it is practised in the context of Aboriginal Health and Community Development.

08155 Primary Health Care I

Full year - 56 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

Full year - 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.

08243 Indigenous Health Promotion

Full year - 56 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 systemic manner for the

determination of health promotion priorities and the planning and evaluation of community based health promotion interventions.

08244 Epidemiology

Full year - 56 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.

08250 Perspectives in Indigenous Health II

Full year - 56 hours

This subject identifies mechanisms of control, specifically institutionalisation, government action and Christian missionary efforts that 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.

08252 Counselling II

Full year - 70 hours

The aim of this subject is to focus on the development of a variety of counselling techniques and methods. This subject will assist students to develop a clear understanding of the counselling component of role of Aboriginal Health and Community Development worker.

08253 Primary Health Care II

Full year - 70 hours

This subject will focus on issues of ill health in indigenous communities across Australia. Today Aboriginal people are suffering from both third world and modern illnesses as fourth world (minority) citizens of Australia. An overview of the background to Aboriginal mental health will be developed with the view to identify mental ill health today.

08254 Field Experience II

Full year - 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.

08259 Community Development II

Full year - 70 hours

Students will develop skills for strategic planning to address factors related to ill health in Aboriginal communities; and to plan programs. Students will gain an understanding of how policy impacts on health and community development.

08306 Health Planning, Policy and Evaluation

Full year - 56 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 years 1, 2 and 3 particularly quantitative and qualitative epidemiological, statistical and social science methods. Special emphasis will

be placed on the multi disciplinary nature of health policy, planning and evaluation within a public health framework.

08307 Contemporary Issues in Health, Law and Medicine

Full year - 56 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 an 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.

08314 Perspectives in Indigenous Health III

Full year - 56 hours

This subject is based on the themes of continuity and change in the Aboriginal community, with comparative examples being drawn from across the country. Constructs of Aboriginality will be analysed, and the inter-relatedness and interdependence of facets of Aboriginal life will be explored.

08315 Community Development III

Full year - 56 hours

This subject aims to provide students with an opportunity to put into practice the theoretical and conceptual skills they have acquired during the course. Assistance and resources will be provided to students to design, develop, implement and evaluate a community based project.

08316 Counselling III

Full year - 56 hours

This subject will teach students the practical skills needed for the development of effective counselling in the area of Aboriginal Health and Community development. During this part of the year most emphasis will be on assisting students to develop individual styles of counselling based on the theoretical framework that was established during the second year course.

08317 Primary Health Care III

Full year - 56 hours

This subject provides students with the opportunity to develop special skills and knowledge in selected areas of Aboriginal health. Specific content may vary from year to year in response to contemporary needs and trends.

08318 Field Experience III

Full year-112 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

Full year - 56 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*Full year -56 hours*

This subject is divided into two units. The first is Social Psychology which deals with aspects of the behaviour of people in groups, with applications to people with disabilities. The second 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*Full year -56 hours*

This subject introduces students to the range of qualitative and Multivariate Statistics 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.

11184 Biological Sciences I*Full year -56 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.

112B8 Biological Sciences II*Full year -56 hours*

Medical Sciences and Disorders of Body Systems. To introduce the student to pharmacology, pathophysiology and aspects of cross-infection and immunology. This will be presented in a problem based manner.

11388 Biological Sciences III*Full year -56 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 them 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.

Honours Program

General information related to the Honours Program is presented in Chapter 3. For information specific to the Honours Program in Aboriginal Health and Community Development students are advised to contact the Course Coordinator in Yooroang Garang.

Table 8.3 Bachelor of Health Science (Rehabilitation Counselling)*Course**Code Mode of Offer**0819 Full-time; 3 years**0820 Part-time; 6 years (no commencing students since 1994)**0845 Honours Program; Full-time, 4 years**0846 Honours Program; Part-time, 8 years***Full-time Mode***Year1*

		Total	Sem 1	Sem 2
Core Stream				
08176	Australian Society and Health	56	28	28
08130	Introduction to Health Research and Ethics	56	28	28
101D4	Health and Human Behaviour I	56	28	28
11175	Biological Sciences I	56	28	28
Rehabilitation Counselling Stream				
08131	Rehabilitation Theory I	70	42	28
08132	Rehabilitation Counselling I	56	28	28
08133	Vocational Rehabilitation I	42	14	28
08135	Professional Practice I	75		75 ¹
101B4	Disability Studies I	56	28	28
<i>Stage Total</i>		523	224	299

Year 2

Core Stream				
08243	Health Promotion	56	28	28
08244	Epidemiology	56	28	28
102A1	Health and Human Behaviour II	56	28	28
112A2	Biological Sciences II	56	28	28
Rehabilitation Counselling Stream				
08245	Rehabilitation Theory II	56	28	28
08246	Rehabilitation Counselling II	56	28	28
08247	Vocational Rehabilitation II	56	28	28
08249	Professional Practice II ²	315 ²	105	210
102A2	Disability Studies II	56	28	28
	<i>Stage Total</i>	<i>763</i>	<i>329</i>	<i>434</i>

Year 3

Core Stream				
08306	Health Planning, Policy and Evaluation	56	28	28
08307	Contemporary Issues in Health, Law and Medicine	56	28	28
10393	Social Research	56	28	28
11381	Biological Sciences III	56	28	28
Rehabilitation Counselling Stream				
08308	Vocational Rehabilitation III	56	28	28
08309	Disability Studies III	56	28	28
08310	Special Project	56	28	28
08311	Professional Practice III	210 ³	-	210
08313	Rehabilitation Counselling III	56	28	28
	<i>Stage Total</i>	<i>658</i>	<i>224</i>	<i>434</i>

Honours Program*Year 3*

Research Elective ⁴	42	-	42
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Year 4

08496	Honours Workshop	28	28	-
08498	Thesis	-	-	-
	Research Elective ⁴	42	42	-

Part-time Mode*Year 1 (No Commencing Students in 1997)**Year 2 (No students in 1997)**Year 3 & 4 (No students in 1997)*

Core Stream				
08244	Epidemiology	56	28	28
102A1	Health and Human Behaviour II	56	28	28
Rehabilitation Counselling Stream				
08245	Rehabilitation Theory II	56	28	28
102A2	Disability Studies II	56	28	28
	<i>Stage Total</i>	<i>224</i>	<i>112</i>	<i>112</i>

Year 5&6

Core Stream				
08307	Contemporary Issues in Health, Law and Medicine	56	28	28
Rehabilitation Counselling Stream				
08308	Vocational Rehabilitation III	56	28	28
08310	Special Project	56	28	28
08313	Rehabilitation Counselling III	56	28	28
	<i>Stage Total</i>	<i>224</i>	<i>112</i>	<i>112</i>

Honours Program

Year 6

	Research Elective ⁴	42	-	42
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Year 7

08496	Honours Workshop	28	28	
08498	Thesis			-
	Research Elective ⁴	42	42	

Year 8

08498	Thesis	-	-	-
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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 subjects, one for each year (subject to sufficient student numbers). For Research Electives see Appendix 1.

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 programs for individuals who have become disabled through illness, accident or developmental or social disadvantage. The aim of such programs is to enable such individuals maximum participation in community life.

The degree can only be completed on a full-time basis. A minimum of three years enrolment is required for those undertaking the course on a full-time basis. No new enrolments have been accepted into the part-time course since 1994. A minimum of six years enrolment is required if the course is undertaken on a part-time basis (some part-time students enrolled before 1994 are still completing their studies). Enrolment for those undertaking the Honours component (which is entered at the commencement of Year three) is four years full-time and eight years part-time minimum.

The program 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:

- i) Professional or academic attainment other than HSC;
AND
- ii) A commitment to work in the rehabilitation counselling field;
AND
- iii) 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

08176 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.

08130 Introduction to Health Research and Ethics

Semester 1 - 28 hours

Semester 2 - 28 hours

This subject provides an introduction to the principles and processes of health research. It provides 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.

08131 Rehabilitation Theory I*Semester 1 - 42 hours**Semester 2 - 28 hours*

This subject has two basic objectives. Firstly, it provides a basic introduction to the concept of rehabilitation and its place within the broad field of health and to the function of the profession of rehabilitation counselling. Secondly, it relates the role of rehabilitation counselling to that of other health professions involved in the rehabilitation process.

08132 Rehabilitation Counselling I*Semester 1 - 28 hours**Semester 2 - 28 hours*

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.

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 stresses 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.

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 - 28 hours**Vocational Assessment: Client and Work Environment I*

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. Students are exposed to the range of client assessment techniques available and discuss the relevance of various techniques to specific disability groups.

*Semester 2 - 28 hours**Vocational Assessment: Client and Work Environment II*

This subject highlights the need to assess the workplace and specific jobs in tandem with client assessment. This subject assists 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 1-105 hours**Inter-Semester-210 hours*

This subject includes two 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-two 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.

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 students with an understanding of the relationship between disability, health and the law. It is designed to give students an 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 students 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 of "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 long term 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 subject 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 semester's 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 Persons from Non English Speaking Backgrounds
- Rehabilitation of Persons with HTV*/AIDS
- Hearing Impairment and Sign Language

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 six-week full-time block placement in a rehabilitation or related program. As the final practicum of the three-year professional practice program, 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. Interview practice which focusses on rehabilitation case management and planning is also undertaken.

101D4 Health and Human Behaviour I*Semester 1 - 28 hours**Semester 2 - 28 hours*

In semester 1, major topics in Introductory Psychology, are covered including learning, intelligence, motivation, perception and personality. In second semester, a series of practical applications in introductory psychology are covered.

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

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.

10393 Social Research

Semester 1 - 28 hours

Semester 2 - 28 hours

This subject introduces students to the range of qualitative and Multivariate Statistics 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.

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.

112A2 Biological Science II

Semester 1 - 28 hours

Semester 2 - 28 hours

This subject is divided into four 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.

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 Program

Research Elective

For Research Elective subject descriptions, see Appendix 1.

Table 8.4 Aboriginal Health Science Support Program**Course**

Code **Mode of Offer**
 0840 Part-time; 3 years

(Average student hours: 6-8 hours per week over first two years) (1-4 hours per week over third year)

		Total	Sem 1	Sem 2
08157	Anatomy Support (A)	52 ¹	52 ¹	-
08158	Anatomy Support (B)	28	-	28
08159	Biological Sciences Orientation	28	-	28
08160	Biological Sciences Support (A)	56	28	28
08161	Biological Sciences Support (B)	28 ³	28 ³	-
08162	Physics Support	80 ¹	52 ¹	28
08163	Research Methods Support (I)	28 ³	28 ³	-
08151	Aboriginal Studies	14 ³	14 ³	-
08149	Study Skills	52 ¹	38 ¹	14
08164	Professional Studies Support (IA)	14 ³	14 ³	-
08165	Professional Studies Support (IB)	28	14	14
08166	Biomechanics Support (1)	20 ^{2,3}	20 ^{2,3}	-
08167	Neurobiology Support	28 ³	28 ³	-
08168	Behavioural Sciences Support (A)	28 ³	28 ³	-
08169	Behavioural Sciences Support (B)	56	28	28
08170	Mathematics Orientation	14	-	14
08171	Mathematics Support(A)	14 ³	14 ³	-
08172	Mathematics Support(B)	28	14	14
08255	Biomechanics Support (2)	28 ³	28 ³	-
08256	Professional Studies Support (2)	28	14	14
08257	Research Methods Support (2A)	28 ³	28 ³	-
08258	Research Methods Support (2B)	56	28	28

Notes

- ¹ Includes 24 hours prior to start of academic year
² Includes 6 hours prior to start of academic year
³ Offered semester 1 or 2

Aboriginal Health Science Support Program

Students in the Aboriginal Health Science Support Program undertake a selection of the following Support Program subjects, based on an individual needs assessment conducted by Yooroang Garang, and depending on the students' course and course load. The average number of hours in the Support Program 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 Program 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 Program during the first three years of enrolment.

Course Outline

The course outline for the Aboriginal Health Science Support Program is presented in Table 8.4.

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 runs 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 (1 A)

Semester 1 or 2-14 hours

AND

08165 Professional Studies Support (1B)

Semester 1 -14 hours

Semester 2-14 hours

These subject supports 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 subjects 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.

Year3

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.

Table 8.5 Aboriginal Health Science Preparatory Program

<i>Course</i>			Hours	Sem 1	Sem 2
<i>Code</i>	<i>Mode of Offer</i>				
0839	Full-time				
0847	Part-time				
08173	Anatomy Workshop		28	-	28
08174	Human Biology Workshop		42	-	42
08140	Aboriginal Studies		28 ¹	28 ¹	-
08139	Study Skills Workshop		42 ¹	12 ¹	30
08175	Behavioural Science Workshop		42	-	42
08138	Maths Workshop		42 ¹	12 ¹	30
		<i>Stage Total</i>	224	52	172

Notes

¹ These hours will be undertaken by full-time students in semester 2.

Aboriginal Health Science Preparatory Program

Admission Requirements

Admission to the Aboriginal Health Science Preparatory Program is based on an assessment (including interview) conducted by Yooroang Garang. 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 Program does not guarantee a student a place in a degree course, but does provide them eligibility for selection under the Cadigal Policy. The Preparatory Program 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 Program is presented in Table 8.5.

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 students 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 students 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 skills 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.

Bachelor of Health Science (Rehabilitation Counselling)

All students are required to complete 600 hours of supervised field practice over the three year program, 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 student's areas of interest and career goals are given consideration in the planning of their field placements.

Assessment apass 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 Ph: 9 351 9329.

1997 Field Placement Dates

Bachelor of Health Science (Rehabilitation Counselling)

Year1

75 hours during semester and inter-semester periods.

Year 2

30 June to 1 August (inter-Semester break) '

Note: Students will be expected to have completed the 105 hours of supervised field experience/agency work introduced in year 1 by the end of semester 1, before commencement of this placement.

Year 3

30 June to 1 August (inter-semester break)

Note: Some modifications to these schedules are possible to accommodate time constraints of students and supervisors.

9 School of Health Information Management

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). In addition, the School offers graduate certificate courses in Casemix and Clinical Data 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 the key instrument for recording information about the professional care given to a patient. It contains clinical findings and observations about 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

- epidemiological studies and clinical trials
- quality assurance and peer review programs
- utilisation review of health services.

A Health Information Manager is concerned with the development, implementation, maintenance and administration of medical record and health information systems. These systems, both manual and automated, are designed for the capture, storage, analysis, retrieval, and release of information about patients and health services.

The Health Information Management Association of Australia officially represents the 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 in the Association and upon satisfactory completion of the Bachelor of Applied Science (Health Information Management) or Graduate Diploma of Applied Science (Health Information Management) are eligible for full membership.

Table 9.1 Bachelor of Applied Science (Health Information Management)

<i>Course</i>		Total	Sem 1	Sem 2	
<i>Code</i>	<i>Mode of Offer</i>				
0902	Pass Course; Full-time, 3 years				
0913	Honours Program; Full-time, 4 years				
<i>Year1</i>					
09117	Clinical Classification I	56	-	56	
09130	Health Information Systems II	42	-	42	
09131	Australian Health Care Systems	28	28	-	
09133	Medical Terminology I	42	42	-	
09134	Medical Terminology II	42	-	42	
09135	Communication	42	42	-	
09136	Professional Experience I	96	32	32 ¹	
09137	Health Information Systems I	70	70	-	
09138	Medico-Legal Principles I	28	-	28	
09139	Microcomputer Applications	28	28	-	
101A2	Introduction to Psychology	42	-	42	
101A3	Introduction to Sociology	42	42	-	
11162	Basic Human Biology I	84	42	42	
<i>Stage Total</i>		642	326	32	284

Year 2

09238	Programming Logic and Design	32	32	-	
09239	Systems Analysis and Design	28	-	28	
09243	Medical Science I	42	-	42	
09244	Medical Terminology III	28	28	-	
09246	Professional Experience II	105	-	105 ²	-
09248	Computer Applications in Health Care	28	28	-	
09249	Database Systems	42	-	42	
09250	Clinical Classification DA	42	42	-	
09251	Clinical Classification IIB	77	-	77	
09252	Management Principles I	28	28	-	
09254	Casemix Measurement Systems	42	-	42	
10284	Social Psychology	42	42	-	
10285	Health, Society and Social Change	42	-	42	
10286	Research Methods I: Design	42	42	-	
10287	Research Methods II: Data Analysis	42	-	42	
11283	Basic Human Biology II	70	42	28	
<i>Stage Total</i>		732	284	105	343

Year 3

09316	Research Project	70	28	42	
09325	Financial Management in Health Care	28	28	-	
09331	Medical Science II	42	42	-	
09332	Medical Science III	28	-	28	
09333	Epidemiology	42	-	42	
09335	Medico-Legal Principles II	28	-	28	
09339	Casemix Measurement Systems (1997 only)	42	42	-	
09340	Professional Experience III	150	75 ³	75 ⁴	-
09341	Clinical Classification III	63	35	28	
09342	Human Resource Management	42	42	-	
09343	Management Principles III	42	-	42	
09344	Health Care Evaluation	28	-	28	
09345	Management Principles II	426	42 ⁶	-	
10395	Psychology of Work and Management	42	42	-	
10396	Sociology of Work and Organisations	42	-	42	
<i>Stage Total</i>		689	75	287	75 252

Honours Program - Additional Subjects

Year 3

10503	Intermediate Statistics	42	42	or	42
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Year 4

	Research Elective ⁵	42	42	-	
09432	Research Seminar	56	28	28	
09433	Research Thesis	-	-	-	
09463	Research Proposal	28	28	-	
<i>Stage Total</i>		126	98	28	

Notes

¹ 1 Week inter-semester placement (32 hours)

² 3 Weeks inter-semester placement (105 hours)

³ 2 Weeks pre-semester 1 placement (75 hours)

⁴ 2 Weeks inter-semester placement (75 hours)

⁵ Research Elective: Students select a research elective offered in the Faculty in consultation with their supervisors (see Appendix 1 for a list of research electives).

⁶ Subject to be first offered in 1998, hours are not included in stage total for 1997.

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 health information manager 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. Patients benefit directly when their record is used for future patient care or to protect their legal interests.

Admission Requirements

There are no specific pre-requisites for admission to the Bachelor of Applied Science (Health Information Management) course. The general admission requirements in Chapter 3 apply. However, prospective students would benefit from undertaking 2 unit Mathematics and 2 unit English at HSC level.

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)

In this subject students extend their study of health information systems to health records used outside hospitals - both in ambulatory and other institutional care settings. Records used in community health, primary care, general practice, domiciliary care, nursing homes and mental health are among the systems examined. Students also complete modules dealing with data forms and screen design; the

collection and computation of health care statistics; and concepts and practices used in quality assessment and control in medical record and health information systems. Tutorials concentrate on professional issues through discussion of current literature in the field of health information management.

09131 Australian Health Care Systems

Semester 1-28 hours

In this subject students are given an overview of the Australian Health Care System. Topics covered include: Commonwealth and state responsibilities for health, health care expenditure, health insurance, health care facilities, and the health workforce. Trends in the provision of health care services are discussed along with an introduction to approaches to measuring the effectiveness of the health care system.

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 MTMS.

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

Semester 1 - 32 hours

Inter-semester - 32 hours (1 week)

Semester 2 - 32 hours

The student is introduced to the procedures, functions and services of the medical record department during field visits and workshops in semester 1 and a one week placement in the inter-semester recess. Field visits and workshops in semester 2 concentrate on health information systems outside medical record departments.

09137 Health Information Systems I*Semester 1-70 hours*

This subject introduces the student to the concepts and components of the health information systems, including the health record as an information system, the development of the health record during the healthcare process and the quality of medical recording. The role of the Health Information Manager (HIIM) and the functions of a medical record department are examined along with professional ethics and patient rights. The major component of the subject focuses on hospital record management and covers patient identification, medical record numbering and filing systems, record control, retention and storage, discharge analysis, health record content and structure, including source-orientated medical records (SOMR) and problem-orientated medical records (POMR). Generic records management concepts and procedures are integrated into the subject. Legal aspects related to confidentiality and release of information are examined.

The subject includes an introduction to computerised patient information systems, and students will become familiar with the use of the computerised Patient Master Index (PMI) and Admissions, Transfers and Separations (ATS) system through the New South Wales HOSPAS system. Visits to hospitals to observe and practice skills are a compulsory component of the subject, linked with 09136 Professional Experience I.

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 and learn to use E-mail, the Internet, and CD-ROM.

101A2 Introduction to Psychology*Semester 2-42 hours*

This subject provides an introduction to areas of psychology relevant to health professionals. Major topic areas include consciousness and perception, intelligence, principles of learning, motivation and emotion, personality, developmental psychology, social psychology, and health psychology.

101 A3 Introduction to Sociology*Semester 1-42 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 Programing Logic and Design***Semester 1 - 32 hours*

This subject introduces students to structured programing, using the language PASCAL. They learn the standard techniques generally employed in programing, 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, program 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.

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.

09246 Professional Experience II*Inter-semester- 105hours (3 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.

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 Programing Logic and Design (09238)

This subject covers the study of relational database design, using ACCESS, 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.

09250 Clinical Classification IIA

Semester 1 - 42 hours

Pre-requisites Clinical Classification I (09117) and Medical Terminology II (09134)

A continuation of the development of coding skills using ICD-9-CM begun in Clinical Classification I. Students are introduced to coding from discharge summaries and medical record reports to develop their skills in data abstraction for coding, especially the selection of principal diagnoses. The Australian Standards for ICD-9-CM Coding are studied and applied in detail.

09251 Clinical Classification IIB

Semester 2 - 77 hours

Pre-requisite Clinical Classification IIA (09250)

This subject covers disease notification and registration procedures, especially those related to cancer, infectious diseases, trauma and birth defects. Classification systems other than ICD-9-CM are studied and evaluated. These include specialist classifications and nomenclatures for oncology, psychiatry, pathology, ambulatory and primary care, rehabilitation and severity of illness. An introduction to ICD-10 and the use of computerised encoders is provided. Students continue to develop their ICD-9-CM coding skills in tutorial exercises and are introduced to abstraction and coding from medical records on site in hospitals.

09252 Management Principles I

Semester 1 - 28 hours

Pre-requisite Communication (09135)

This subject is designed to introduce second year students to the general principles of management and their application to the area of Health Information Management. Topics focus on both traditional and contemporary management theories and the management functions of organising and decision making. Managerial skills such as time management, business communication and managing meetings are also covered.

09254 Casemix Measurement Systems

Semester 2 - 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.

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 (101 A3)

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 I: Design

Semester 1 - 42 hours

This subject introduces students to the research process and focuses on developing informed consumers of research. The subject begins with brief consideration of the philosophy of science, then covers research ethics, qualitative and quantitative research, the development of research questions and the specification of hypotheses and variables, conceptualisation and operationalisation, sampling issues, validity and reliability. A broad range of research methods will be introduced, including experimental research, single case designs, surveys, interview and observational studies, secondary data analysis and content analysis. Data quantification techniques will be discussed and students will be introduced to research applications in health sciences including needs assessment, evaluation research, action research and epidemiology.

10287 Research Methods II: Data Analysis

Semester 2 - 42 hours

This subject builds on 10286 and introduces students to basic qualitative and quantitative data analysis techniques. Using examples from HIIM practice, this subject introduces students to statistical reasoning and extracting meaning from data. Students will learn about frequency distributions and the visual representation of data, cross-tabulations, measures of central tendency and variability, distributions and standard scores and correlation, and be introduced to regression, chi-square tests, confidence intervals, z-tests, t-tests, and analysis of variance. Students will use computers to assist in data analysis and gain some experience in the analysis of qualitative data.

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

09345 Management Principles II

Semester 1 - 28 hours

Pre-requisite Management Principles I (09252)

This subject builds on Management Principles I and introduces students to the management function of planning and the change process with particular applications in the areas of Health Information Management. Organisational communication and occupational health and safety are also studied.

09316 Research Project

Semester 1 - 28 hours

Semester 2 - 42 hours

Pre-requisite Research Methods II: Data Analysis (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.

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 2 - 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.

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.

09340 Professional Experience III

Pre-semester - 75 hours (2 weeks)

Inter-Semester - 75 hours (2 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.

09341 Clinical Classification III

Semester 1 - 35 hours

Semester 2 - 28 hours

Pre-requisite Clinical Classification IIB (09251)

This subject extends the student's skills in practical coding using ICD9CM. Emphasis will be on coding in hospital settings. In semester 1 students will be required to undertake coding of medical records in hospitals. In semester 2 the most recent coding standards will be reviewed, computerised coding software will be examined, and methods of quality control for coding will be investigated.

09342 Human Resource Management

Semester 1 - 42 hours

This subject is designed to introduce the student to the human resource management function relevant to the work of a 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 Australian industrial relations framework with particular emphasis on the current workplace focus and conflict resolution are covered and students are taught how to prepare their own curriculum vitae.

09343 Management Principles III

Semester 2 - 42 hours

Pre-requisite Management Principles II (09253)

In this subject students continue to study the historical and theoretical aspects of management whilst relating this knowledge to the practical aspects of health information management. Topics studied include motivation, leadership, the control process and total quality management.

09344 Health Care Evaluation

Semester 2 - 28 hours

In this subject students are introduced to the concepts of quality healthcare. Approaches to evaluation of quality of care at a national level are discussed along with the assessment of health care quality at an organisational and individual level. Topics covered include evidenced based health care, health outcomes, variations research, consumer satisfaction, total quality management, and clinical indicators. Approaches to improve quality of care such as practice guidelines are discussed. Program evaluation principles will be addressed. Techniques and methodologies for assessing quality of care along with the elements of an effective evaluation program and sources of information for use in evaluation are discussed.

10395 Psychology of Work and Management

Semester 1 - 42 hours

Pre-requisite Social Psychology (10264)

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 Program

General information related to the Honours Program is presented in Chapter 3. For specific information related to the Health Information Management Honours Program, students are advised to contact the School of Health Information Management.

Students in the Honours Program complete all Year 3 subjects in the Pass Course. In addition, students must complete the following:

Year 3

10503 Intermediate Statistics

Semester 1 or 2 - 42 hours

Pre-requisite Research Methods I and II, or equivalent

In this subject, students will extend and consolidate the research methods and statistical skills acquired in Research Methods I and II. Students will gain experience in data screening techniques, analysis of variance, multiple regression and non-parametric statistics. Students will learn how to use SPSS to conduct these statistical tests.

Year 4

Research Elective

Semester 1 - 42 hours

For elective subject descriptions, see Appendix 1.

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 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.

09463 Research Proposal

Semester 1 - 28 hours

The aim of this subject is to allow 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.

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.).

1997 Clinical Practice Dates

Bachelor of Applied Science

Year 1

June 23 - June 27 (1 week)

Year 2

July 14 - August 1 (3 weeks)

Year 3

February 3 - February 14 (2 weeks)

July 21 - August 1 (2 weeks)

Uniforms

Uniforms and identification badges must be worn by all students during practical placements.

10 School of Medical Radiation Technology

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; 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.

A nuclear medicine technologist uses radioactive substances and sophisticated instrumentation such as gamma cameras and 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.

A 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)

Course

Code Mode of Offer

1808[D]	Pass Course; Full-time, 3 years
1809[N]	Pass Course; Full-time, 3 years
1810[R]	Pass Course; Full-time, 3 years
1811[D]	Honours Program; Full-time, 4 years
1812[N]	Honours Program; Full-time, 4 years
1813[R]	Honours Program; Full-time, 4 years
1821[D]	Conversion Course; Part-time, 1 year
1822[N]	Conversion Course; Part-time, 1 year
1823[R]	Conversion Course; Part-time, 1 year

Pass Degree

Year ¹		Total	Sem 1	Sem 2
101C9	Behavioural Science IA - Introduction to Computing	42	42	.
101D1	Behavioural Science IB - Introduction to Psychology	42	-	42
11171	Radiation Physics	168	98	70
11174	Anatomy of Body Systems	112	56	56
11193	Introductory Human Biology	56	-	56
18116	Introduction to Medical Radiation	84	84	-
18114	Clinical Education I	105	-	105

PLUS				
Diagnostic Radiography				
18117	Introductory Radiography	84	-	84
OR				
Nuclear Medicine				
18118	Introductory Nuclear Medicine	84	-	84
OR				
Radiation Therapy				
18119	Introductory Radiation Therapy	84	~	84
		<i>Stage Total</i>		
		693	280	413

Year 2

10283	Behavioural Science II	60	30	30
112B5	Pathophysiology	100	50	50
18220	Radiation Biology & Protection	20	10	10
18221	Sectional Anatomy	40	20	20
PLUS				
Diagnostic Radiography				
18222	Imaging I	80	40	40
18223	Radiography I	100	50	50
18233	Radiographic Pathology I	40	20	20
18234	Clinical Education IIA	490	245	245
OR				
Nuclear Medicine				
18225	Instrumentation I	40	20	20
18226	Nuclear Medicine I	120	60	60
18227	Radiopharmacy	60	30	30
18235	Clinical Education IIB	455	230	225
OR				
Radiation Therapy				
112B6	Tumour Pathology	30	10	20
18229	Radiation Therapy I	130	70	60
18230	Radiotherapy Physics I	60	30	30
18236	Clinical Education IIC	455	230	225

Year 3

10394	Behavioural Science III	144	84	60
18318	Image Processing	48	28	20
18320	Professional Studies	24	24	-
PLUS				
Diagnostic Radiography				
18319	Sonography	58	28	30
18321	Imaging II	96	56	40
18322	Radiography II	96	56	40
18332	Radiographic Pathology II	24	-	24
18333	Contrast Media	24	24	-
18335	Clinical Education IIIA	350	105	245
OR				
Nuclear Medicine				
18319	Sonography	58	28	30
18324	Instrumentation II	96	56	40
18325	Nuclear Medicine II	144	84	60
18326	Clinical Education IIIB	385	140	245
OR				

Radiation Therapy

18327	Radiation Therapy II	144	84	60
18328	Radiotherapy Physics II	58	28	30
18329	Principles of Oncology	72	42	30
18330	Clinical Education IIIC	385	140	245
18334	Radiation Therapy Project	24	14	10

Conversion Course

18425	Radiation Biology and Protection	20		20
18415	Medical Radiations Project	100	36	64
PLUS				

Diagnostic Radiography

18416	Advances in Radiography	48	48	-
OR				

Nuclear Medicine Technology

18417	Sectional Anatomy	48	48	-
OR				

Radiation Therapy

18418	Sonography	48	48	-
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<i>Stage Total</i>		<i>168</i>	<i>84</i>	<i>84</i>
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Honours Program - Additional Subjects*Year 3*

103B2	Behavioural Science III (Honours) ¹	144	84	60
18331	Research in Medical Radiations P	34	14	20

<i>Stage Total</i>		<i>178</i>	<i>98</i>	<i>80</i>
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Year 4³

10475	Research Methods and Statistics	42	42	
18412	Honours Workshop	56	28	28
18413	Research Project			
18419	Research in Medical Radiations II	14		14
	Elective ⁴	42	42	OR 42

Notes

¹ 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 program or are unsuccessful in Year 4 of the program will be deemed to have completed the requirements of 10394 Behavioural Science III.

² This is an additional subject for students accepted into the Honours Program

³ Year 4 subjects (in special circumstances) may be taken over two years

⁴ Students may choose from one of the following electives:

08501	Epidemiological Research
08502	Evaluation Research
08503	History and Philosophy of Scientific Methodology
10503	Intermediate Statistics
10504	Multivariate Statistics
10505	Qualitative Research Methods
10514	Survey Research Methods

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 semester.

Admission Requirements

There are no specific pre-requisites for admission to the Bachelor of Applied Science (Medical Radiation Technology) course. The general admission requirements in Chapter 3 apply. However, prospective students would benefit from undertaking 2 unit Mathematics, and either two of 2 unit Physics, 2 unit Chemistry, and 2 unit Biology or 3/4 unit Science at HSC level. Good oral English communication skills are assumed as a large component of the course involves dealing directly with people in clinical settings. 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 Program is presented in Table 10.1.

Subject Descriptions

Year# _____

101C9 Behavioural Science IA Introduction to Computing

Semester 1 - 42 hours

This subject provides an introduction to computing systems with special emphasis on the microcomputer. Applications relevant to the health sciences and the general principles of structured programming will be examined.

101D1 Behavioural Science IB Introduction to Psychology

Semester 2 - 42 hours

This subject provides an introduction to areas of psychology relevant to health professionals. Major topic areas include consciousness and perception, intelligence, principles of learning, motivation and emotion, personality, developmental psychology, social psychology, and health psychology.

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, proteinsynthesis, cell division, the principles of homeostasis, genetics and blood.

18116 Introduction to Medical Radiation

Semester 1-84 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. Students will also be introduced to the concept of multi-disciplinary health care by reviewing the way these three professions interact and provide information to each other.

18117 Introductory Radiography

Semester 2 - 84 hours

Co-requisite Radiation Physics (11171)

This subject provides an introduction to the principle and practice of basic radiographic procedures of the upper and lower limb, chest and abdomen.

18118 Introductory Nuclear Medicine

Semester 2 - 84 hours

Co-requisite Radiation Physics (11171)

This subject introduces students to their role in the clinical environment. It aims to develop the student's understanding of physiology, SPECT and the application of skeletal and cardiac nuclear medicine.

18119 Introductory Radiation Therapy

Semester 2 - 84 hours

Co-requisite Radiation Physics (11171)

This subject introduces students to the role of the radiation therapist in a radiation oncology department. The use of radiation therapy in the treatment of skin lesions and as a palliative measure in the treatment of malignant disease will be examined.

18114 Clinical Education I

Semester 2 -105 hours

Co-requisite Introduction to Medical Radiation (18116), Introductory Radiography (18117), or Introductory Nuclear Medicine (18118), or Introductory Radiation Therapy (18119)

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/Co-Requisite Behavioural Science 1B Introduction to Psychology (101D1)

This subject comprises 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

Pre-requisites Introductory Human Biology (11193), Anatomy of Body Systems (11174)

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.

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.

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.

18222 Imaging I

Semester 1 - 40 hours

Semester 2 - 40 hours

Pre-requisites Radiation Physics (11171), Introduction to Medical Radiation (18116), Introduction to Radiography (18117)

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), Introduction to Medical Radiation (18116), Clinical Education I (18114), Introduction to Radiography (18117)

Co-requisites Imaging I (18222), Clinical Education IIA (18234)

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.

18225 Instrumentation I

Semester 1 - 20 hours

Semester 2 - 20 hours

Pre-requisites Radiation Physics (11171), Introduction to Medical Radiation (18116), Introductory Nuclear Medicine (18118)

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), Introduction to Medical Radiation (18116), Clinical Education I (18114), Introductory Nuclear Medicine (18118)

Co-requisites Radiopharmacy (18227), Clinical Education IIB (18235)

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.

18229 Radiation Therapy I

Semester 1 - 70 hours

Semester 2 - 60 hours

Pre-requisites Radiation Physics (11171), Introduction to Medical Radiation (18116), Clinical Education I (18114), Introductory Radiation Therapy (18119)

Co-requisites Tumour Pathology (112B6), Radiotherapy Physics I (18230), Clinical Education IIC (18236)

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), Introduction to Medical Radiation (18116), Introductory Radiation Therapy (18119)

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.

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.

18234 Clinical Education IIA

Semester 1 - 245

Semester 2-245

*Pre-requisites Introduction to Medical Radiations (18116), Clinical Education I (18114), Introductory Radiography (18117)**Co-requisite Radiography I (18223)*

This subject provides a structured program of clinical experience to attain knowledge and skills for the radiographic examinations taught in Radiography I.

18235 Clinical Education IIB

Semester 1 - 230 hours

Semester 2 - 225 hours

*Pre-requisites Introduction to Medical Radiation (18116), Clinical Education I (18114), Introductory Nuclear Medicine (18118)**Co-requisite Nuclear Medicine I (18226)*

This subject provides a structured program of clinical experience to attain knowledge and skills for the nuclear medicine procedures taught in Nuclear Medicine I.

18236 Clinical Education IIC

Semester 1 - 230 hours

Semester 2 - 225 hours

*Pre-requisites Introduction to Medical Radiation (18116), Clinical Education I (18114), Introductory Radiation Therapy (18119)**Co-requisite Radiation Therapy I (18229)*

This subject provides a structured program of clinical experience to apply the knowledge and skills studied in Radiation Therapy I.

Year 3**10394 Behavioural Science III**

Semester 1-84 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 health care 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 Introduction to Medical Radiation (18116), Introductory Radiography (18117), or Introductory Nuclear Medicine (18118), or introductory Radiation Therapy (18119)

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 Introductory Medical Radiation (18116)

This subject provides an introduction to the clinical applications and practice of diagnostic ultrasound.

18320 Professional Studies

Semester 1 - 24 hours

Pre-requisite Clinical Education IIA (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.

18321 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 IIA (18224)**Co-requisite Clinical Education IIIA (18335)*

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 paediatric and aged patients, technically difficult procedures on patients with advanced stages of a disease process and procedures on patients who have sustained injury causing severe physical disability.

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 IIB (18228)**Co-requisites Instrumentation II (18324), Clinical Education IIIB (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, in vivo tracer studies and paediatric nuclear medicine.

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 program of clinical experience to attain knowledge and skills for the nuclear medicine procedures taught in Nuclear Medicine II.

18327 Radiation Therapy II

Semester I - 84 hours

Semester II - 60 hours

Pre-requisites Radiation Therapy I (18229), Radiotherapy Physics I (18230), Clinical Education IIC (18232)

Co-requisites Principles of Oncology (18329), Clinical Education IIC (18330)

This subject examines in detail the advanced routine applications of radiation therapy. There is emphasis on developing students' problem solving skills in the context of planning more complex routine treatment techniques. The utilisation of rectangular and irregular beam planning, intracavitary brachytherapy, and the application of cross axial imaging modalities are incorporated into the planning problems presented. In addition, this subject provides an introduction to non routine treatment techniques including stereotactic radiosurgery, intra operative radiotherapy, and total body irradiation.

18328 Radiotherapy Physics II

Semester I - 28 hours

Semester II - 30 hours

Pre-requisite Radiotherapy Physics I (18230)

This subject provides an introduction to brachytherapy, less common treatment modalities like neutron and pi meson therapy, and developing areas in radiation oncology including the physical basis of three dimensional treatment planning, and the use of asymmetric jaws, multileaf collimators, dynamic wedges and electronic portal imaging devices. Quality control in the areas of radiation therapy planning and treatment is also investigated.

18329 Principles of Oncology

Semester I - 42 hours

Semester II - 30 hours

Pre-requisites Tumour Pathology (112B6), Radiation Therapy I (18229)

Co-requisite Radiation Therapy II (18327)

This subject examines the role of radiation therapy in cancer management. Site specific applications and general concepts and interactions with other treatment modalities are covered. There is emphasis on the practical applications of cancer management, patient care, and critical evaluation of treatment outcomes.

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 II (18327)

This subject provides the student with a structured program of clinical experience to apply the knowledge and skills obtained in Radiation Therapy II.

18332 Radiographic Pathology II

Semester 2 - 24 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 1-24 hours

Pre-requisite Introduction to Human Biology (11193)

Co-requisites Radiography II (18322), Clinical Education IIIA (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.

18334 Radiation Therapy Project

Semester 1 -14 hours

Semester 2-10 hours

Pre-requisites Radiation Therapy I (18229), Clinical Education IIC (18232)

Co-requisite Behavioural Science III (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.

18335 Clinical Education IIIA

Pre-semester-140 hours

Inter-semester-105 hours

Semester 2-140 hours

Pre-requisite Clinical Education IIA (18224)

Co-requisite Radiography II (18332)

This subject provides a structured program of clinical experience to attain the applied knowledge and skills for radiographic examinations taught in Radiography II.

Honours Program**Selection Criteria**

Students will be selected to enter the Honours Program on the basis of their academic record and research interests. An additional year is required to complete the Honours Program.

General information related to the Honours Program is presented in Chapter 3. For information specific to the Medical Radiation Technology Program, students are advised to contact the School of Medical Radiation Technology.

Students in the Honours Program complete all year 3 subjects in the Pass Program, except 10394 Behavioural Science III. In addition, students in the Honours Program complete the following:

Year 3

103B2 Behavioural Science III (Honours)

Semester 1 - 84 hours

Semester 2 - 60 hours

There are four units in this subject. The first unit of Life Stress provides students with an understanding of reactions to stress, particularly in health care settings. The second unit, Research Methods & Design, introduces students to the concepts of scientific research as well as the key approaches and methods and design to undertake research within the health professions. Students will develop basic skills related to instrumental design, data collection and data analysis. 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.

18331 Research in Medical Radiations I

Semester 1 - 14 hours

Semester 2 - 20 hours

This subject assists students to identify the research possibilities in the professional area of medical radiation technology. Students will develop the ability to critically analyse journal articles as well as compile a literature review and research proposal.

Year 4

10475 Research Methods and Statistics

Semester 1 - 42 hours

This subject is designed to provide students 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.

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 as well as focusing on individual problems with projects and oral presentation skills, this workshop aims to develop an understanding of the nature of the knowledge and methodology the students are using in their research. This will be conducted in semester one through reading of articles and discussion. In semester two emphasis will be placed on written presentation skills.

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.

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. Document creation/display and word processing skills will also be developed.

Elective

Semester 1 or 2 - 42 hours

Students select one of the following subjects (subject to sufficient student numbers) in consultation with their supervisors:

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 /or - 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.

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.

10503 Intermediate Statistics

Pre-requisite Research Methods I and II, or equivalent

In this subject, students will extend and consolidate the research methods and statistical skills acquired in Research Methods I and II. Students will gain experience in data screening techniques, analysis of variance, multiple regression and non-parametric statistics. Students will learn how to use SPSS to conduct these statistical tests.

10504 Multivariate Statistics

Pre-requisite Intermediate Statistics (10503), or equivalent

This subject examines a variety of multivariate designs and statistical procedures, including factor analysis, discriminant function analysis and analysis of covariance. Other procedures will be considered according to the needs and interests of enrolling students.

10505 Qualitative Research Methods

This subject exposes students to the major philosophical foundations and strategies of research in the social sciences.

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 Program (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. 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 31 May, 1997. St John Ambulance courses on CPR are available through the metropolitan and country areas. Life-saving certificates of CPR competency will also be accepted.

In years 2 and 3, students will be separated into their respective specialities for Clinical Education.

Diagnostic Radiography

Clinical Education in year 2 (14 weeks) and year 3 (11 weeks) 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 IIA and IIIA 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 program 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 a University supervisor 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

Clinical Education in year 2 (13 weeks) and year 3 (11 weeks) provides 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 new procedures in Clinical Education IIB and IIB 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 radiopharmaceuticals, 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 at 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 thirteen and eleven weeks of Clinical Education in years 2 and 3 respectively 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 new procedures in Clinical Education IIC and IIIC 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.

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.

Bachelor of Applied Science (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 and is conducted in block mode.

Course Outline

The course outline for the Bachelor of Applied Science (Medical Radiation Technology) Conversion Course is presented in Table 10.1.

Subject Descriptions

18415 Medical Radiations Project

Semester 1 - 36 hours

Semester 2 - 64 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 - 48 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 - 48 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 - 48 hours

This subject provides an introduction to the study of the clinical application and practice of diagnostic ultrasound.

18425 Radiation Biology and Protection

Semester 2 - 20 hours

This subject provides an in-depth study of the radiobiological effects and safe usage of ionising and non-ionising radiation common to all medical radiations.

1997 Clinical Education Dates

Bachelor of Applied Science (Medical Radiation Technology)

Diagnostic Radiography

Year 1

30 June - 4 July (1 week)

8 December - 19 December (2 weeks)

Year 2

13 January - 31 January (3 weeks)

7 April - 2 May (4 weeks)

30 June - 18 July (3 weeks)

8 September - 3 October (4 weeks)

Year 3

3 February - 28 February (4 weeks)

21 July - 5 September (7 weeks)

Nuclear Medicine

Year 1

24 June - 11 July or 15 July - 1 August (3 weeks total)

Year 2

12 February - 21 February (1.5 weeks)

25 February - 1 April (6 only Tuesdays)

14 April - 9 May (4 weeks)

23 June - 11 July (3 weeks)

8 September - 3 October (4 weeks)

Year 3

13 January - 7 February (4 weeks)

14 July - 29 August (7 weeks)

Radiation Therapy

Year 1

30 June - 4 July/4 August - 8 August (1 week)

8 December - 19 December (2 weeks)

Year 2

24 February - 28 February (1 week)

3 March - 28 March (1 day/week)

7 April - 2 May (4 weeks)

30 June - 18 July (3 weeks)

8 September - 3 October (4 weeks)

Year 3

27 January - 21 February (4 weeks)

21 July - 5 September (7 weeks)

Uniforms

Uniforms, identification badges and radiation monitoring badges must be worn by all students during clinical practice placements.

Female

A white paramedical uniform or a white blouse with collar and navy blue culottes. Closed flat heeled duty shoes either white or navy in colour. A cardigan, jumper or sleeveless woollen vest either in white or navy.

Male

A white "Ben Casey" jacket and navy trousers. Closed black shoes. A cardigan, jumper or sleeveless woollen vest either in white or navy.

11 School of Occupational Therapy

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 program 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 program for diversional therapists in Australia. In 1995, a three year Bachelor of Applied Science (Diversional Therapy) was introduced. The name of this program will be changed to Bachelor of Applied Science (Leisure and Health) in 1997. The School has developed an articulated program of post graduate study. This includes PhD level studies, two Master's degree courses, one by research, the other by course work and a Graduate Certificate which focuses on specialty areas of practice in Occupational Therapy.

Further information about the School's programs may be obtained from the School on 9 351 9386.

Table 11.1 Bachelor of Applied Science (Leisure and Health)*

* previously Diversional Therapy

Course

Code Mode of Offer

1531 Pass Course; Full-time, 3 years

Year1

		Total	Sem 1	Sem 2
101C2	Introduction to Sociology	56	56	-
101C3	Psychology I	56	-	56
101C4	Sociology of Community and Family	28	-	28
11183	Biological Sciences I	56	28	28
15143	Professional Practice I	28	28	-
15144	Theories of Leisure and Recreation	28	28	-
15145	Creative Arts in Recreation: Visual Arts	28	28	-
15146	Communication Theory and Practice	28	28	-
15147	Introduction to People with Disabilities	28	28	-
15148	Management and Computer Skills	28	-	28
15149	Creative Arts in Recreation: Expressive Arts	28	-	28
15150	Leadership and Group Dynamics	28	-	28
15151	Introduction to Teaching and Learning	28	-	28
15152	Issues which Influence Client Care	28	-	28
15153	Field Experience I	51*	49	2
<i>Stage Total</i>		527	273	254

*Includes 35 hours intersemester

Year 2

102A6	Clients, Work and Organisations	42	42	-	
102A7	Psychology of Disability I	56	28	28	
102A8	Psychology of Disability II	56	28	28	
102A9	Research Methods I	42	-	42	
112B7	Biological Sciences II	56	28	28	
152A6	Professional Practice II	28	28	-	
152A7	Social Psychology of Leisure and Recreation	28	28	-	
152A8	Advanced Theory and Methods of Instruction	28	28	-	
152A9	Diversional Therapy and the Ageing Population	28	28	-	
152B1	Contemporary Issues in Health Care	28	-	28	
152B2	Leisure Education	28	-	28	
152B3	Program Design, Implementation and Evaluation	28	-	28	
152B4	People with Disabilities I	28	-	28	
152B5	Field Experience II	136 ¹	63	73	
		<i>Stage Total</i>	<i>612</i>	<i>301</i>	<i>311</i>

Note

¹ Includes : 70 hours intersemester 35 hour camp

Year 3

103B5	Research Methods II	28	28	-	
103B6	Sociology of the Aged and Ageing	42	-	42	
103B7	Psychology II	56	-	56	
11385	Biological Sciences III	56	28	28	
15384	Counselling Skills	28	28	-	
15385	Recreation for Specific Groups	28	-	28	
15386	Leisure throughout the Life Cycle	28	-	28	
15387	Integrative Paper	28	-	28	
15388	People with Disabilities II	28	-	28	
15389	Field Experience III	319	230	89	
		<i>Stage Total</i>	<i>641</i>	<i>314</i>	<i>327</i>

Bachelor of Applied Science (Leisure and Health)

This degree program is concerned with recreational and leisure activities within health care and community environments. Where barriers to independent participation exist, leisure service providers facilitate client involvement and promote effective and satisfying engagement in activities which have intrinsic value for the individual client.

During Field Experience, students will experience a variety of client groups and settings including one placement in an aged care setting.

Admission Requirements

There are no specific pre-requisites to the Bachelor of Applied Science (Leisure and Health) courses. The general admission requirements in Chapter 3 apply. However prospective students would benefit from undertaking 2 unit Chemistry, or 3/4 unit Science at HSC level.

Course Outline

The course outline for the Bachelor of Applied Science (Leisure and Health) is presented in Table 11.1.

Subject Descriptions

Year 1

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 an introduction to areas of psychology relevant to health professionals. Major topic areas include consciousness and perception, intelligence, principles of learning, motivation and emotion, personality, developmental psychology, social psychology, and health psychology.

101C4 Sociology of Community and Family

Semester 2 - 28 hours

Pre-requisite Introduction to Sociology (101C2)

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 subject.

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 practice in the area of leisure and health including diversional therapy. Concepts which influence the development of professions are examined and the role of leisure service providers is explored. A comparative analysis of professions which provide similar services will be made. Legal and ethical issues related to duty of care will be identified and discussed.

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.

15145 Creative Arts in Recreation Visual Arts

Semester 1 - 28 hours

This subject will provide 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.

15146 Communication Theory and Practice

Semester 1 - 28 hours

This subject introduces students to the basic knowledge and skills necessary for accurate and effective communication in a professional context. Areas studied include: verbal and non-verbal communication; listening skills; oral presentations; academic writing skills and assertiveness training.

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 program.

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 innovatively tailor recreational activities to individual client needs.

15148 Management and Computer Skills

Semester 2 - 28 hours

Pre-requisite Professional Practice I (15143)

This subject focuses on two areas of professional practice. First, students are provided with opportunities to develop specific skills in: financial management; documenting and accessing client information; program co-ordination; submission and report writing; and resume writing. Second, students are introduced to computer systems and an overview of applications relevant to leisure service provision.

15149 Creative Arts in Recreation Expressive Arts

Semester 2 - 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.

15150 Leadership and Group Dynamics

Semester 2 - 28 hours

Pre-requisite Communication Theory and Practice (15146)

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. Attention is given to negotiation and conflict resolution strategies.

15151 Introduction to Teaching and Learning

Semester 2 - 28 hours

In this subject students are introduced to key learning theories: behaviourist theory; interactionist theory; developmental-interactionist theory; and cognitive theory. Special consideration is given to the way each of these theories contributes to our understanding of how professionals can address the learning needs of their clients.

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 leisure provision, including 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.

15153 Field Experience I

Semester 1 -14 hours

Inter-semester - 35 hours

Semester 2-2 hours

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.

Year 2

102A6 Clients, Work and Organisations

Semester 1 - 42 hours

Prerequisite Introduction to Sociology (101C2)

Sociological frameworks are applied to client/practitioner relationships, particularly in organisational settings. Problems and dilemmas of professional practice, employment and work are examined. Reactive processes and self, especially in long-stay and institutional contexts are analysed using relevant sociological perspectives.

102A7 Psychology of Disability I

Semester 1 - 28 hours

Semester 2-28 hours

Topics covered include defining definitions and classification of disabilities, community attitudes toward disability, causes of negative attitudes and strategies for changing these, adjustment to disability and issues related to living with a disability. Particular consideration will be given to physical disabilities and developmental disabilities.

102A8 Psychology of Disability II

Semester 1 - 28 hours

Semester 2 - 28 hours

This subject consists of two units. The first examines behaviour disorders and management, and the application of behavioural techniques to a variety of situations. These techniques are employed in changing old habits and learning new skills, in managing pain, loss of function, stress, anxiety and depression. An overview of the classification of abnormal behaviour precedes a description of the behavioural management of these conditions. The second unit covers principles of cognitive function and information processing related to neurological disorders and cognitive rehabilitation.

102A9 Research Methods I

Semester 2-42 hours

This subject introduces students to the conduct of research. The following topics will be covered: characteristics of research in the allied health professions; scientific method and the philosophy of science; qualitative and quantitative research; the development of research questions; research ethics; the formulation of hypotheses and specification of variables; conceptualization and operationalization; sampling issues and techniques; basic issues in research design such as longitudinal and cross-sectional designs, validity and reliability; research designs including experiments, single case design, surveys, interview studies, observation, secondary data analysis and content analysis; the quantification of data; and special research applications in the health sciences such as evaluation research, epidemiology, action research and needs assessment.

112B7 Biological Sciences II

Semester 1- 28 hours

Semester 2 - 28 hours

This subject is divided into four units. The first two will run in semester 1. Unit 1 will cover pathophysiology 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 lifespan and unit 4 will be an introduction to basic pharmacological principles and actions of the major drug groups.

152A6 Professional Practice II

Semester 1 - 28 hours

Pre-requisite Professional Practice I (15143)

This subject provides students with an overview of the function and structure of the health care system in New South Wales. Topics studied include: health care issues at federal, state and local levels; structure and roles of key service groups; funding arrangements; alternative health care providers; social differentials; the roles of various health care professionals and their relationship to leisure service provision, including diversional therapy.

152A7 Social Psychology of Leisure and Recreation

Semester 1-28 hours

The constructs of leisure and recreation in society and the inter-relationship between leisure roles/leisure identity and quality of life form the basis of study in this subject. Content areas include: historical developments; motivation for leisure; theoretical models; leisure socialisation; leisure behaviour; and the contribution of leisure and recreation to a person's quality of life. Finally, literature related to leisure and recreation in institutional and community settings is examined.

152A8 Advanced Theory and Methods of Instruction

Semester 1 - 28 hours

Pre-requisite Introduction to Teaching and Learning (15151)

This subject provides students with further knowledge of the teaching/learning process and enables them to practice specific teaching skills in a simulated instructional context. Included are: task and activity analysis; organising teaching sequences and developing learning strategies; experiential approaches to learning; and, an introduction to a range of instructional technologies.

152A9 Diversional Therapy and the Ageing Population

Semester 1 - 28 hours

This subject will provide students with specific strategies and knowledge to overcome barriers to participation in recreational activities experienced by clients who are ageing. Students will develop an understanding of the aged population and issues effecting this population. Students will be expected to identify and explore theoretical perspectives of caregiving appropriate for people who experience the effects of ageing and to identify and evaluate specialist services which provide information, support and resources for people who are aged.

152B1 Contemporary Issues in Health Care

Semester 2 - 28 hours

Pre-requisite Professional Practice II (152A6)

This subject will provide students with an understanding of current issues and concepts which may directly or indirectly influence the delivery of recreation services within the health care system. Students will explore relevant government acts, outcome standards, and principles which influence the individual and the recreation program

152B2 Leisure Education

Semester 2 - 28 hours

This subject introduces students to models of leisure education and leisure counselling. Students will have an opportunity to explore a number of diagnostic tools available to assess clients' leisure needs and choices and to design appropriate recreational programs to meet these needs.

152B3 Program Design, Implementation and Evaluation

Semester 2 - 28 hours

Pre-requisite Advanced Theory and Methods of Instruction (152A8)

In this subject students continue to develop skills necessary for the facilitation of client involvement in leisure and recreation programs. Emphasis is placed on issues related to the design of programs, their effective implementation and evaluation. Participants will develop further knowledge about theories of learning, the process of learning and the role of leisure service providers, including diversional therapists, in this process.

152B4 People with Disabilities I

Semester 2-28 hours

Pre-requisite Introduction to People with Disabilities (15147)

This subject will provide students with the opportunity to continue to develop the expertise related to specific strategies to overcome barriers to participation in recreational activity programs for people who experience the effects of dementia and neurological based deficits. Students will be expected to demonstrate an understanding of the medical and social condition affecting clients with dementia and neurological based deficits. Students will be expected to demonstrate knowledge of behavioural management strategies to be used with clients who experience dementia of neurological based deficits.

152B5 Field Experience II

Semester 1 - 28 hours

Intersemester - 70 hours

Camp - 35 hours

Semester 2 - 3 hours

Pre-requisite Field Experience I (15153)

This subject includes three components - classwork, a two week placement and a weekend camp. In the supervised placements, students will begin to apply and practice the skills acquired in the academic program. Students will also be encouraged to develop and implement leisure and recreation programs, evaluate programs and administrative procedures, and link academic study to professional practice.

Year 3

103B5 Research Methods II

Semester 1 - 28 hours

Pre-requisite Research Methods I (102A9)

This subject will consist of two components. The first component will cover descriptive statistics including

measures of central tendency and variability, frequency distributions, visual representations of data, cross-tabulations and correlation. In the second component students will conduct a literature review and a class research exercise based on their fieldwork experience. Students will prepare a report on the research exercise.

103B6 Sociology of the Aged and Ageing

Semester 2 - 42 hours

Pre-requisite Introduction to Sociology (101C2)

This unit uses sociological analysis to examine aspects of Australia's changing demographic profile. Ideological, policy, political, economic and legislative aspects will be analysed. Theories of ageing will be applied to patterns of community response, to media representations, and to the well-being of older people. Effects of ageing and service provision in various ethnic communities, family reunion, refugee migration, mainstreaming and ethno-specific accommodation will be examined.

103B7 Psychology II

Semester 2 - 56 hours

This subject consists of two units. The first focuses on the psychology of ageing. The behaviour of older people is examined in the light of psychological theories concerning intellectual, sensory, motor, emotional and social development. Particular attention is given to memory, speed, motivational changes and the consequences of neurological diseases. Common false beliefs about the behaviour of older people are discussed. The importance of social and generational factors in determining individual behaviours is emphasised. The second unit covers topics in social psychology. These topics include behaviour in groups, attitudes and stereotyping, social interaction, conformity and leadership.

11385 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.

15384 Counselling Skills

Semester 1 • 28 hours

Co-requisite Field Experience III (15389)

This subject is designed to enable students to develop the knowledge, skills and attitudes needed to establish therapeutic helping relationships with clients. Students will complete an independent applied skills assignment during their field experience placement in this semester. They will learn to assess client's needs and to best meet these needs through the selection of an appropriate counselling model. The different models studied will allow students to develop flexible ways of relating to clients in a variety of contexts e.g. bereavement counselling for clients, relatives, carers, counselling clients with disabilities.

15385 Recreation for Specific Groups

Semester 2 - 28 hours

This subject provides students with an understanding of the recreational needs of specific groups. Groups studied include: ethnic groups, women, people with disabilities and socially disadvantaged groups such as substance abusers, prisoners and the unemployed. Students will examine the role of government and other agencies in meeting the needs of such groups.

15386 Leisure throughout the Life Cycle

Semester 2 - 28 hours

This subject provides opportunities for students to further enrich their understanding of the inter-relationships between government policy provisions and their knowledge of clients' leisure needs throughout the life cycle, and the link between this inter-relationship and the development and provision of effective leisure and recreation programs.

15387 Integrative Paper

Semester 2 - 28 hours

This subject allows students to study and investigate an area which is of particular professional interest to them. It provides opportunities for students to further develop specialised knowledge and skills through an examination and critical review of the literature and the writing of a discussion paper which demonstrates an in-depth investigation and integration of information from a variety of sources.

15388 People with Disabilities II

Semester 2 - 28 hours

Pre-requisite Introduction to People with Disabilities (15147)

This subject will provide students with the opportunity to continue to develop the expertise related to specific strategies to overcome barriers to participation in recreational activity programs for people who experience psychiatric disorders, developmental disabilities and terminal illness.

Students will demonstrate an understanding of the behaviour patterns of those who experience psychiatric disorders, developmental disabilities and terminal illness. Students will be expected to demonstrate a knowledge of appropriate use of behaviour modification techniques required in specific diversional therapy settings. Students will develop the ability to network the appropriate support systems available to individual clients.

15389 Field Experience III

Semester 1 - 319 hours

Students will have the opportunity to consolidate their learning through two field placements. During both placements academic study will be integrated with practical experience. Through these two extended placements, and the class review sessions, students will develop their professional identity and understanding of practical issues of programming, working with different clients, quality assurance, research and administration.

Table 11.2 Bachelor of Applied Science (Occupational Therapy)

<i>Course</i>				
<i>Code</i>	<i>Mode of Offer</i>			
1519	Pass Course; Full-time, 4 years			
1520	Honours Program; Full-time, 4 years			
		Total	Sem 1	Sem 2
<i>Year 1</i>				
101A9	Introductory Psychology	42	42	-
101B1	Cognitive Functioning	28	-	28
101B2	Management of Behaviour	28	-	28
11176	Introductory Human Biology	56	56	
11177	Musculoskeletal Anatomy	70	26	44
11178	Introductory Neurobiology	28	28	-
11179	Neurobiology I	28	-	28
15136	Human Occupations IA	42	42	-
15137	Human Occupations IB	42	-	42
15138	Components of Occupational Performance IA	56	56	-
15139	Components of Occupational Performance IB	56	-	56
15140	Occupational Therapy Theory and Process I	56	28	28
15141	Occupational Role Development I	56	28	28
15142	Fieldwork Education I	82	5	77
	<i>Stage *Total</i>	<i>670</i>	<i>311</i>	<i>359</i>
<i>Year 2</i>				
10293	Australian Society	42	42	-
10294	Sociology of Health I	56	-	56
10295	Research Methods and Design	42	42	-
10296	Research Methods and Statistics I	42	-	42
112A7	Neurobiology II	56	56	-
112A8	Body Systems I	28	-	28
22209	Biomechanics for Occupational Therapy	28		28
15297	Human Occupations HA	28	28	-
15298	Human Occupations HB	42	-	42
15299	Components of Occupational Performance HA	42	42	-
152A1	Components of Occupational Performance HB	42	-	42
152A2	Occupational Therapy Theory and Process IIA	28	28	-
152A3	Occupational Therapy Theory and Process IIB	28	-	28
152A4	Occupational Role Development II	56	28	28
152A5	Fieldwork Education II	117	58	59
	<i>Stage Total</i>	<i>677</i>	<i>324</i>	<i>353</i>
<i>Year 3</i>				
103A3	Sociology of Health II	42	-	42
103A4	Health Psychology	42	-	42
11382	Body Systems II	70		70
15379	Human Occupations III	28	-	28
15380	Components of Occupational Performance III	56	-	56
15381	Occupational Therapy Theory and Process III	42	-	42
15390	Fieldwork Education IIIA	264	264	
15391	Fieldwork Education IIIB	264	132	132
	<i>Stage Total</i>	<i>808</i>	<i>396</i>	<i>412</i>

Year 4

10465	Psychology of Adulthood and Ageing	28	28	-
10466	Social Psychology	28	28	-
10467	Sociology Elective	28	28	-
22401	Applied Physiology	56	56	-
15460	Human Occupations <i>TV</i>	56	56	-
15461	Components of Occupational Performance IV	42	42	-
154A6	Occupational Therapy Theory and Process IVA	50	22	28
154A7	Occupational Therapy Theory and Process IVB	20	20	-
15463	Evaluation of Occupational Therapy Program	42	14	28
15464	Fieldwork Education IV	377	50	327
<i>Stage Total</i>		727	344	383

Table 11.2.1 Bachelor of Applied Science (Occupational Therapy) Honours

Course

Code Mode of Offer

1520 Honours Program; Full time, 4 years,
Years 1 and 2 as per Pass Program (Table 11.2)

		Total	Sem 1	Sem 2
<i>Year 3</i>				
103A3	Sociology of Health II	42	-	42
103A4	Health Psychology	42	-	42
11382	Body Systems II	70	-	70
15379	Human Occupations III	28	-	28
15380	Components of Occupational Performance III	56	-	56
15381	Occupational Therapy Theory and Process III	42	-	42
15390	Fieldwork Education IIIA	264	264	-
15391	Fieldwork Education IIIB	264	132	132
15378	Honours Research Seminar I	28	-	28
15383	Honours Proposal Development	14	-	14
<i>Stage Total</i>		850	396	454

Year 4

10465	Psychology of Adulthood and Ageing	28	28	-
10466	Social Psychology	28	28	-
10467	Sociology Elective	28	28	-
22401	Applied Physiology	56	56	-
15442	Honours Research Seminar II	28	14	14
15433	Individual Research Consultation	28	14	14
154A5	Human Occupations IV (Hons)	28	28	-
15445	Honours Thesis	-	-	-
	Research Elective ¹	42	42	-
15464	Fieldwork Education <i>TV</i>	377	50	327

Notes

¹ Honours students, in consultation with their supervisor, elect to take one Research Elective only in either year 3 or year 4.

Bachelor of Applied Science (Occupational Therapy)

Occupational Therapy involves a study of human occupations in the areas of self-care, productivity, leisure, and rest 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). The general admission requirements in Chapter 3 apply. However, prospective students would benefit from undertaking 2 unit Chemistry, or 3/4 unit Science at HSC level.

Course Outline

The course outlines for the Bachelor of Applied Science (Occupational Therapy) are presented in Tables 11.2 and 11.2.1.

Subject Descriptions

Year 1

101A9 Introductory Psychology

Semester 1 - 42 hours

This subject provides an introduction to areas of psychology relevant to health professionals. Major topic areas include consciousness and perception, intelligence, principles of learning, motivation and emotion, personality, developmental psychology, social psychology, and health psychology.

101B1 Cognitive Functioning

Semester 2-28 hours

This subject presents an information processing approach to cognitive functions such as pattern recognition, attention, and memory. The logic, theory, and methodology of cognitive experimentation is examined and considered in relation to neurologically intact and impaired individuals.

101B2 Management of Behaviour

Semester 2-28 hours

This subject 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 cellular structure and function, cell metabolism, protein synthesis, cell division, genetics and the principles of homeostasis, 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 students 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 subject 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, sleep and rest occupations during these stages in the lifespan will be examined from various theoretical perspectives.

15142 Fieldwork Education I

Semester 1 - 5 hours

Inter-semester break - 75 hours

Semester 2 - 2 hours

This subject has four hours preparatory lectures and one hour debriefing session to facilitate students' attendance at a two 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

10293 Australian Society

Semester 1 - 42 hours

This subject 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 Design

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.

10296 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.

112A7 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.

112A8 Body Systems I*Semester 2 - 28 hours*

The anatomy and physiology of the cardiovascular systems are covered. As an introduction to the cardiovascular system, the properties of blood and the mechanics of fluids are covered. This subject includes laboratory classes where tissues from human cadavers are examined in detail. Attendance at such classes is a subject requirement.

22209* 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 and upper limb biomechanics.

* subject code to be confirmed.

15297 Human Occupations IIA*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 an 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 IIA*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 IIA*Semester 1 - 28 hours*

This subject expands 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 1 - 28 hours**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, rest and sleep occupations during this stage will be examined from various theoretical perspectives.

152A5 Fieldwork Education II*Semester 1 - 2 hours**Inter-semester break - 113 hours**Semester 2 - 2 hours*

This subject has one hour each for briefing and debriefing to facilitate students' three 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.

Years**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.

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.

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.

15379 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.

15380 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.

15381 Occupational Therapy Theory and Process 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.

15390 Fieldwork Education IIIA

Semester 1-264 hours

This subject has a one hour briefing session to facilitate students' seven week block placement in a professional setting. It provides them 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, while under supervision of the fieldwork supervisor.

15391 Fieldwork Education IIB

Semester 1-132 hours

Semester 2-132 hours

This subject has a one hour debriefing session after students' seven week block placement in a professional setting of a different nature to that in Fieldwork Education IIIA (15390). It provides them 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, while under supervision of the fieldwork supervisor.

Year 4

10465 Psychology of Adulthood and Ageing

Semester 1-28 hours

Psychological development in the latter half of the lifespan is analysed with respect to sensory-perceptual, cognitive and affective aspects of the older person. Changes in social relationships that occur during this period of life are also traced.

10466 Social Psychology

Semester 1-28 hours

Social Psychology studies behaviour in everyday situations. Subject content will include theoretical and applied perspectives on topics such as social perception, altruism; interpersonal relations, attitudes and behaviour, non verbal communication, aggression, violence, conformity and obedience.

10467 Sociology Elective

Semester 1-28 hours

Students will be required to choose one sociology elective. Electives may include: women's health issues; sociology of ageing, Australia's Immigrant Community, behavioural issues in occupational health.

22401* Applied Physiology

Semester 1-56 hours

This subject deals with the integration of body functions during work and exercise. It includes basic and applied aspects of muscle function, temperature regulation, energy metabolism and respiratory and cardiovascular physiology. Processes associated with physical work capacity, training and adaptation to physical activity will also be examined with reference to special populations, e.g. the aged, disabled.
* subject code to be confirmed.

15460 Human Occupations IV

Semester 1-56 hours

This subject examines the area of productivity, including school to work transitions, occupational choice, paid and non-paid work, and productivity throughout the lifespan. Students will be given the opportunity to analyse productivity occupations, study the organisational systems in which they are performed, and assess individual functional capabilities for work. The selection of occupational therapy intervention strategies to improve human performance in the area of productivity will be outlined. Elective topics at an advanced level of study in the area of human occupations will also be offered.

15461 Components of Occupational Performance IV

Semester 1 - 42 hours

Advanced studies in specific areas of component performance will be undertaken in order for students to identify and critique occupational therapy analysis and intervention. Electives may be offered in specific areas of biomechanical, sensorimotor, cognitive and psychosocial performance as they underpin human occupational performance. Students will be given an opportunity to choose from several advanced inquiry units.

154A6 Occupational Therapy Theory and Process IVA

Semester 1 - 22 hours

Semester 2 - 28 hours

Students will develop professional skills in oral and written presentation. Specifically, in semester 1, students will prepare and run a workshop on a skill related to community occupational therapy practice. Students will develop a teaching manual for their workshop. In semester 2, students will design and present a poster on a topic of current debate or concern to occupational therapists and the occupational therapy profession.

154A7 Occupational Therapy Theory and Process IVB

Semester 1-20 hours

Students will have an opportunity to select one elective from a range of topics which may include Fieldwork Supervision, Culture and Management of Technology.

15463 Evaluation of Occupational Therapy Program

Semester 1 -14 hours

Semester 2 - 28 hours

This subject gives students the opportunity to utilise beginning research skills and apply them to Program Evaluation in a clinical context. Students identify an evaluation issue based on Fieldwork Education Unit IV, research the literature relative to the evaluation issue and prepare an evaluation proposal. The proposal is documented in a written report.

15464 Fieldwork Education IV

Semester 2 - 377 hours

This subject has one 10 week block placement in a professional setting. It provides students with the opportunity to consolidate and further develop under supervision of the fieldwork supervisor, knowledge, skills and attitudes necessary for safe and effective delivery of occupational therapy services in both traditional and specialised areas of practice. In addition, students will be required to use the final two weeks of the placement to gather necessary information which will be needed for formulating a proposal for the subject Evaluation of Occupational Therapy Services.

Honours Program

General policies relating to the Honours Program are presented in Chapter 3. For information specific to the Occupational Therapy Honours Program students are advised to contact the Honours Course Co-ordinator.

The Occupational Therapy Honours Program includes the first four semesters of the Pass program followed by four semesters when the student is specifically enrolled in the Honours Program. See Table 11.2.1 for course outline.

In order for honours students to have adequate time to pursue their research studies, a number of modifications including internal exemptions, tutorial group flexibility in year 3 and year 4 subjects, and timetabling flexibility for Fieldwork Education IV. Students undertake Fieldwork Education IV at a suitable time in relation to their research studies and in consultation with their supervisor and the Fieldwork Subject Manager.

Year 3

15378 Honours Research Seminar I

Semester 2 - 28 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 subject and a student grant application and ethics application.

15383 Honours Proposal Development

Semester 2-14 hours

This subject is designed to assist honours students develop their research proposal. Each student designs a research proposal in collaboration with an academic supervisor and develops a learning contract to support this.

Research Elective

Semester 2 - 42 hours

This elective is an opportunity to choose a subject that best complements the methodology anticipated to be used in the research project.

Year 4

154A5 Human Occupations IV

Semester 1 - 28 hours

This subject examines the area of productivity, including school to work transitions, occupational choice, paid and non-paid work, and productivity throughout the lifespan. Students will be given the opportunity to analyse productivity occupations, study the organisational systems in which they are performed, and assess individual functional capabilities for work. The selection of occupational therapy intervention strategies to improve human performance in the area of productivity will be outlined.

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.

Research Elective

Semester 1 - 42 hours

This elective is an opportunity to choose a subject that will assist in the carrying out of the planned research, data analysis, presentation of results or discussion of results.

Research Methods Elective

Semester 2 - 42 hours

This elective is an opportunity to choose a subject that best complements the methodology anticipated to be used in the research project.

Fieldwork

Fieldwork education is an integral part of the occupational therapy and leisure and health programs 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 ten 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 EI - Briefing and debriefing tutorials, and two blocks of placements of seven weeks each in the first semester.

Fieldwork IV - Fieldwork four has three parts. Briefing and debriefing tutorials, an eight week placement and a two week additional period to be used by students to collect information from the fieldwork site. This information will contribute towards development of a program evaluation proposal for the subject Evaluation of Occupational Therapy Programs.

Fieldwork Dates

Year 1: June 30 - July 11 (2 weeks);

Year 2: July 14 - August 1 (3 weeks);

Year 3: March 3 - April 18 (7 weeks) AND
May 5 - June 20 (7 weeks)

Year 4: August 4 - October 17 (ten weeks)

Leisure and Health Fieldwork

Fieldwork I- A one week block placement in the inter-semester recess, plus fifteen hours of Clinical Practicums spread over semesters 1 and 2.

Fieldwork II - A two week block placement in the inter-semester recess and a thirty-five hour weekend camp, scheduled at various times during the year. Twenty-six hours of Clinical Practicums semester 1 plus a three hour review session semester 2.

Fieldwork Dates

Year 1: June 30 - July 4 (1 week);

Year 2: July 7 - July 18 [inclusive] (2 weeks);

Year 3: March 24 - April 18 [inclusive];

Year 3: April 28 - May 30 [inclusive]

Uniforms

Students in the occupational therapy course may need to obtain uniforms to be worn while undertaking hospital placements where uniforms are required. Not all fieldwork sites require students to wear uniforms. Fittings for uniforms will be organised in semester 1. Students in the leisure and health 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 leisure and health students. These badges can be obtained from the Student Guild.

Occupational Therapy Students

Women

Short sleeves blouse;

shirtmaker white with navy blue stitching

Navy blue culotte skirt /Navy blue trousers

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

Leisure and Health 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

12 School of Orthoptics

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 the 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 program leading to a Bachelor

of Applied Science (Orthoptics) or a Bachelor of Applied Science (Orthoptics)(Honours) is now offered as well as a research based Master of Applied Science (Orthoptics), 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 eg 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 program.

Enquiries regarding the academic program should be addressed to the Head of the School of Orthoptics, Mrs Neryla Jolly (Ph: 02 9 3519250, Fax: 02 9 351 9359).

Table 12.1 Bachelor of Applied Science (Orthoptics)

Course

Code	Mode of Offer
1410	Pass Course; Full-time, 4 years
1411	Honours Program; Full-time, 4 years

Pass Program

		Total	Sem 1	Sem 2
<i>Year 1</i>				
101D2	Behavioural Science IA Introduction to Sociology	49	49	-
101D3	Behavioural Science IB Introduction to Psychology	49	-	49
11176	Introductory Human Biology	56	56	-
11178	Introductory Neurobiology	28	28	-
11179	Neurobiology I	28	-	28
11180	Optics I	28	28	-
11181	Body Systems I	56	-	56
11182	Optics II	28	-	28
14125	Instrumentation I	84	42	42
14126	Visual Processes	42	42	-
14127	Binocular Vision	42	-	28
14128	Disorders of the Visual System IA	28	28	-
14129	Disorders of the Visual System IB	28	-	42
14130	Clinical Studies I ¹	48	-	48
	Stage Total	594	273	48
<i>Year 2</i>				
10297	Behavioural Science II	84	42	42
10298	Research Methods and Statistics	42	-	42
10299	Research Methods and Designs	42	42	-
112B1	Introductory Pathology	28	28	-
112B2	Ocular Biology	42	42	-
112B4	Visual Neurobiology	70	-	70
14245	Concomitant Strabismus B	70	-	70
14247	Clinical Studies IF	96	-	96
14248	Instrumentation II	56	28	28
14249	Concomitant Strabismus A	42	42	-
14250	Disorders of the Visual System IIA	42	42	-
14251	Disorders of the Visual System IIB	42	-	42
	Stage Total	656	266	96

Year 3

11386	Bio-electrical Signals and Computing	56	-	56
11387	Embryology and Neuro Plasticity	32	-	32
14335	Clinical Studies IIP	390	390	-
14336	Clinical Project	30	20	10
14337	Ocular Motility Disorders I	42	-	42
14338	Disorders of the Visual System III	42	-	42
14339	Rehabilitation Studies I	42	-	42
14340	Instrumentation III	28	-	28
14341	Elective Study	42	-	42
<i>Stage Total</i>		<i>704</i>	<i>410</i>	<i>294</i>

Year 4

11466	Visual Science	52	52	-
14408	Ocular Motility Disorders II	42	42	-
14409	Disorders of the Visual System IV	42	42	-
14410	Rehabilitation Studies II	42	42	-
14411	Professional Studies	42	42	-
14413	Clinical Studies IV ⁴	390	-	390
10551	Developing a Research Project	42	42	-
and				
14412	Research Project	42	-	42
or				
14414	Professional Elective	42	-	42
<i>Stage Total</i>		<i>694</i>	<i>262</i>	<i>432</i>

Honours Program

Year 3

103A6	Research Statistics	42	-	42
11386	Bio-electrical Signals and Computing	56	-	56
11387	Embryology and Neuro Plasticity	32	-	32
14335	Clinical Studies IIP	390	390	-
14337	Ocular Motility Disorders I	42	-	42
14338	Disorders of the Visual System III	42	-	42
14339	Rehabilitation Studies I	42	-	42
14340	Instrumentation III	28	-	28
14342	Clinical Project (Honours)	40	20	20
14343	Research Proposal	56	14	42
<i>Stage Total</i>		<i>770</i>	<i>424</i>	<i>346</i>

Year 4

11466	Visual Science	52	52	-
14408	Ocular Motility Disorders II	42	42	-
14409	Disorders of the Visual System IV	42	42	-
14410	Rehabilitation Studies II	42	42	-
14411	Professional Studies	42	42	-
14415	Research Thesis	-	-	-
14416	Clinical Studies IV ⁴	390	-	390
<i>Stage Total</i>		<i>610</i>	<i>220</i>	<i>390</i>

Notes

- ¹ 2 weeks intersemester placement
- ² 4 weeks pre-semester or intersemester
- ³ 15 weeks x 26 hours
- ⁴ Scheduled as appropriate to meet clinical and research objectives

Bachelor of Applied Science (Orthoptics)

Orthoptists are health professionals who specialise in management of disorders of eye movements and other aspects of visual functions.

Orthoptists assist in the assessment of patients with eye diseases. They have particular expertise in the assessment and treatment of binocular vision (use of two eyes as a pair). Orthoptists support patients who have visual problems associated with conditions such as stroke and head injury. They also work with partially sighted people and treat children with lazy eyes.

Orthoptists are also skilled in many of the exacting diagnostic procedures related to disorders of the eye and visual system, such as testing of the visual field, ultrasonography, electrodiagnosis, biometry, assistance in minor surgical techniques, and client instruction in the use of contact lenses.

Admission Requirements

There are no subject pre-requisites for admission to the Bachelor of Applied Science (Orthoptics) course. The General Admission Requirements in Chapter 3 apply. However, prospective students would benefit from undertaking 2 unit Chemistry or 2 unit Biology or 3/4 unit Sciences at HSC level.

Course Outline

The course outline for the Bachelor of Applied Science (Orthoptics) Pass and Honours courses are presented in Table 12.1.

Subject Descriptions

Pass Program

Yearly _____

101D2 Behavioural Science IA Introduction to Sociology

Semester 1-49 hours

This subject provides an introduction to sociological concepts and their significance for analysing contemporary Australian society. Course content includes an analysis of the state, class, gender, race, and ethnicity, and the social construction of old age. Explanations of the patterns of health and illness and an understanding of the impact of social organisation upon health care systems are developed. Research methodology to assist the understanding of this material will be included.

101D3 Behavioural Science IB Introduction to Psychology

Semester 2-49 hours

This subject provides an introduction to areas of psychology relevant to health professionals. Major topic areas include consciousness and perception, intelligence, principles of learning, motivation and emotion, personality, developmental psychology, social psychology, and health psychology. Research methodology to assist the understanding of this material will be included.

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)

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 1-28 hours

This subject introduces students to the principles of geometrical optics, including the nature of light, image formation by lenses and mirrors, prisms, beam, limitation effects and aberrations.

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 practised. 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 - 28 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 including suppression, amblyopia and ARC.

14128 Disorders of the Visual System IA*Semester 1 - 42 hours*

This subject will present a range of disorders of the eye, with emphasis on recognition of the more common disorders of the visual system, terminology used in the field of ophthalmology and the basic principles of ophthalmological examination.

14129 Disorders of the Visual System IB*Semester 2 - 42 hours*

This unit covers a study of ophthalmic history taking, cataract (its causes, types, investigation and management), ocular emergencies, an introduction to visual fields.

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 eg 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 or two variable models including control charts and regression models. Rationales for sampling, observation 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 then-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 micro-organism 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**Assumed knowledge 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**Assumed knowledge 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.

14245 Concomitant Strabismus B*Semester 2 - 70 hours**Pre-requisite Concomitant Strabismus A (14249)**Pre/Co-requisite Instrumentation II (14248)*

Non accommodative concomitant deviations are studied, such as intermittent non accommodative esotropia and exotropia, with special emphasis on the sensory adaptations of suppression, amblyopia, microtropia, eccentric fixation, normal and abnormal and non functional retinal correspondence and their relationship to visual plasticity.

14247 Clinical Studies II*Before Semesters 3or4-4 weeks: 96 hours**Pre-requisite Clinical Studies I (14130)*

Pre/Co-requisite Disorders of the Visual System IIA (14250) OR Disorders of the Visual System IIB (14251), Concomitant Strabismus A (14249) OR Concomitant Strabismus B (14245), Instrumentation II (14248)

Students will be exposed to various clinical situations and conditions. Basic orthoptic techniques will be practised in the clinical setting and the student's technical, interpersonal and professional skills evaluated. Following the clinical placement students attend a debriefing workshop where clinical experiences are discussed. A case study and a personal learning objective is developed by the student after the clinical placement.

14248 Instrumentation II

Semester 1 - 28 hours

Semester 2-28 hours

Pre-requisite Instrumentation I (14125)

Pre/Co-requisite Disorders of the Visual System IIA (14250) OR Disorders of the Visual System I IB (14251), Concomitant Strabismus A (14249) OR Concomitant Strabismus B (14245)

The instrumentation and special procedures appropriate to the subjects Concomitant Strabismus A and B and Disorders of the Visual System IIA and B are studied with the emphasis on developing skills in small groups. These skills include those of retinoscopy, visual field testing and orthoptic assessments and treatments.

14249 Concomitant Strabismus A

Semester 1 - 42 hours

Assumed knowledge Binocular Vision (14127).

Pre/Co-requisite Instrumentation II (14248)

Effect of refractive errors on ocular alignment and anomalies of accommodation, convergence and the accommodation/convergence synkinesis which result in concomitant deviation are studied, along with assessment and management of these conditions as well as convergence insufficiency, heterophoria, accommodation anomalies and accommodative intermittent squint.

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/Co-requisite Instrumentation II (14248)

This subject will introduce a range of ophthalmic topics relevant to the varied working environments of the orthoptist. Diseases of the anterior segment and inflammatory disorders of the eye will be briefly considered. The investigative procedures and medications used to care for these patients will be discussed. The role of the orthoptist in the care of the contact lens patient and patient undergoing minor surgical procedures will be examined in greater depth.

14251 Disorders of the Visual System IIB

Semester 2 - 42 hours

Pre-requisite Disorders of the Visual System IIA (14244)

Pre/Co-requisite Instrumentation II (14248)

In this unit the assessment of refractive error and special refractive conditions such as keratoconus are studied. Glaucoma is also studied with emphasis on assessment of the visual field using computerised perimetry.

Year 3 _____

11386 Bio-electrical Signals and Computing

Semester 2 - 56 hours

This subject introduces bio-electricity, acquisition and processing digital signals preparatory to the study of visual electrodiagnosis. There is a substantial component devoted to the use of computers and their relevance to orthoptic practice.

11387 Embryology and Neural Plasticity

Semester 2-32 hours

Assumed knowledge Visual Neurobiology (112B4)

In this subject, there is a discussion on embryology, the main emphasis being placed on the development of the central nervous system and that of the visual system. There is also a discussion on the plasticity of the visual and ocular motor systems with particular reference to how they change with experience.

14335 Clinical Studies III

Semester 1 - 390 hours

Pre-requisite Clinical Studies II (14247)

Pre/Co-requisite Disorders of the Visual System IIA (14250) OR Disorders of the Visual System IIB (14251), 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 and B and Disorders of the Visual System IIA and IIB. Students will be required to maintain a close liaison with the clinical coordinator and attend case analysis sessions at the School. Students will also carry out a clinical project during this placement..

14336 Clinical Project

Semester 1 - 20 hours

Semester 2-10 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 or retinoscopy.

14337 Ocular Motility Disorders I

Semester 2 - 42 hours

Pre-requisite Concomitant Strabismus A (14249) OR Concomitant Strabismus B (14245)

Co-requisite Instrumentation III (14340)

The causes, special investigations and management of incomitant 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 (14250) or Disorders of the Visual System IIB (14251)

Pre/Co-requisite Instrumentation III (14340)

This subject reviews testing procedures for the paediatric population with emphasis on visual assessment. The role of the orthoptist in vision screening programs is also studied.

14339 Rehabilitation Studies I

Semester 2 - 42 hours

Pre/Co-requisite Disorders of the Visual System IIA (14250) OR Disorders of the Visual System IIB (14251), Ocular Motility Disorders I (14337)

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/Co-requisites Disorders of the Visual System IIA (14250) OR Disorders of the Visual System IIB (14251), 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, B Scans and incomitant strabismus.

14341 Elective Study*Semester 2 - 42 hours*

Students negotiate an approved study, either from within the School of Orthoptics or from another School or Department in the Faculty of Health Sciences or the wider University. The choice of study will be dependant on availability and timetabling constraints.

Year4**10551 Developing a Research Project***Semester 1 - 42 hours*

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. This subject is usually offered on Mondays from 5-8pm.

11466 Visual Science*Semester 1-52 hours*

This subject discusses nervous system plasticity in general and ocular motor plasticity in particular and continues the study of neuro-ophthalmology. There is also a substantial practical component on computers in orthoptic practice.

14408 Ocular Motility Disorders II*Semester 1 - 42 hours*

Disorders associated with cortical ocular motor control and neurological disorders of eye movement (supranuclear and infranuclear) are studied, along with their special assessment procedures and management.

14409 Disorders of the Visual System IV*Semester 1-42 hours*

This subject complements Ocular Motility Disorders II in the study of neuro ophthalmology, and neurological visual field loss. The ageing eye and the ocular pathology of ageing are also studied.

14410 Rehabilitation Studies II*Semester 1 - 42 hours*

The visual implications of sensory and motor impairment and plasticity are studied, with emphasis on communication issues, visual impairment, management of visual field anomalies and orientation and mobility training.

14411 Professional Studies*Semester 1 - 42 hours*

Special issues relating to professional practice are discussed, covering complex case studies, medico legal issues, ethics, and occupational health.

14412 Research Project*Semester 2 - 42 hours*

Students will carry out a guided research exercise relevant to orthoptic practice.

14413 Clinical Studies IV*Semester 2 - 390 hours*

This placement provides the clinical experiences that consolidate the second semester year 3 and first semester year 4 theoretical subjects, as well as providing opportunity to integrate all components of the course. Students will be required to attend case analysis sessions and conduct the off campus component of their professional elective in this subject.

14414 Professional Elective*Semester2 - 42 hours*

Students will carry out a guided theoretical and clinical elective study in one of the following - low vision, developmental delay, stroke rehabilitation, vision and driving, contact lenses, ocular motility, visual electrodiagnosis, practice issues.

Honours Program

General information related to the Honours Program is presented in Chapter 3. For information specific to the Orthoptics Honours Program students are advised to contact the School of Orthoptics.

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 EI (14340), Bio-electrical Signals and Computing (11386), Embryology and Neural Plasticity (11387) 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*Semester 1 - 20 hours**Semester 2 - 20 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

Honours students will enrol in the pass subjects Ocular Motility Disorders II (14408), Disorders of the Visual System IV (14409), Rehabilitation Studies II (14410), Professional Studies (14411), Visual Science (11466) in addition to the following subject:

14415 Research Thesis

Semester 1 and 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 IV (14416).

14416 Clinical Studies IV

Semester 2 - 390 hours

This placement provides the clinical experiences that consolidate the second semester year 3 and first semester year 4 theoretical subjects, as well as providing an opportunity to integrate all components of the course. Students will be required to attend case analysis sessions and conduct the off campus component of their professional elective in this subject.

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 year 2. 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 program of the School is to be directed to the School's Clinical Coordinators, Mrs Liane Wilcox or Mrs Ngaire Willsher on (02) 9 351 9529.

The clinical blocks for 1997 are scheduled as follows:

Year 1

June 30-July 11

Year 2

January 27 - February 28 OR July 11 - August 1

Year 3

March 3-June 20

Year 4

August 11 - November 17

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 Student Guild, is to be worn at all clinical placements.

Female

Regulation navy blue uniform or culottes, navy trousers and white shirt

Navy cardigan

Stockings

Navy blue or black plain shoes eg 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 Guild to take uniform orders. Please leave purchase of the uniforms until this time. First year students will require uniforms for their intersemester clinical placement commencing 30 June 1997.

13 School of Physiotherapy

Physiotherapy is a health profession which deals with the prevention, assessment and treatment of human movement disorders. 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 and the evaluation of physiotherapy services to ensure the optimum quality of care for the community it serves. The profession is also committed to effective communication with members of the health team, the community at large and the continuing education of its graduates. 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 and cardiopulmonary physiotherapy.

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 programs. Prior to 1975, there was a physiotherapy program conducted through the Australian Physiotherapy Association in New South Wales which had been offered since its inception in 1907.

One of the major goals of the School is to graduate competent beginning practitioners of physiotherapy. To this end, the School's Undergraduate Studies Committee has reviewed the undergraduate program 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 eg. in student 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 programs and research projects to refine the program offered. 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 programs (pass and honours bachelor degrees). The honours program is available to students completing their second year of the undergraduate program who have met the eligibility criteria and quota for admission to the Honours Program. Nine graduate programs are conducted by the School. These include research programs at masters and doctoral levels and coursework programs in manipulative physiotherapy, sports physiotherapy, and a combined program which addresses a number of other professional sub-disciplines.

In relation to School of Physiotherapy subjects, enrolment in a subject is normally dependent upon the student meeting the entry requirements for the program 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, provided that the applicant has the required prerequisite 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 program 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 prerequisite subjects and/or can demonstrate the prerequisite knowledge to study the subject, and resources are available to support the enrolment in the subject.

Enquires regarding academic programs should be directed to the following:
Academic Program Administrator, Ayanthi Salgado (9 351 9378); the Undergraduate Programs Coordinator: Louise Ada (9 351 9544); the Honours Program Coordinator: Dr Elizabeth Ellis (9 351 9470).

Table 13.1 Bachelor of Applied Science (Physiotherapy)*Course***Code *Mode of Offer***1622 *Pass Course; Full-time, 4 years*

		Total	Sem 1	Sem 2
<i>Year 1</i>				
101A4	Psychology of Human Performance	42	42	-
101A6	Psychology of Motor Behaviour	28	-	28
101C5	Research Methods I: Design	42	42	-
11158	Introductory Human Biology	60	60	-
11161	Body Systems I	56	-	56
11172	Functional Anatomy A	62	62	-
11173	Functional Anatomy B	54	-	54
11191	Introductory Neurobiology	31	31	-
11192	Neurobiology I	31	-	31
16113	Electrophysical Agents I	46	-	46
16115	Kinesiology I	64	24	40
16116	Musculoskeletal Physiotherapy I	48	-	48
16117	Topics in Physiotherapy I	36	36	-
<i>Stage Total</i>		600	297	303
<i>Year 2</i>				
10288	Social Interaction, Communication & Personality	42	42	-
11286	Body Systems II	28	-	28
11287	Neurobiology II	58	58	-
22208	Biomechanics	40	40	-
16213	Kinesiology II	20	6	14
16223	Physiotherapy in Neurology I	24	-	24
16224	Cardiopulmonary Physiotherapy I	63	39	24
16226	Topics in Physiotherapy II	26	-	26
16231	Electrophysical Agents II	43	43	-
16232	Musculoskeletal Physiotherapy II	98	76	22
16233	Clinical Education IA	144	-	144
16234	Clinical Education IB	144	-	144
<i>Stage Total</i>		730	304	426
<i>Year 3</i>				
10398	Social Theory and Health	42	42	-
103B9	Research Methods II: Data Analysis ¹	46	46	-
11374	Body Systems EI	24	24	-
22309	Applied Physiology	74	26	48
16320	Physiotherapy in Neurology II	63	42	21
16323	Topics In Physiotherapy III	42	12	30
16329	Research and Investigation I	30	-	30
16330	Cardiopulmonary Physiotherapy II	48	24	24
16331	Musculoskeletal Physiotherapy III	86	70	16
16332	Clinical Education II	190	-	190
<i>Stage Total</i>		645	286	359

10457	Health, Medicine and Society	28	28	-
10479	Health Psychology	42	42	-
16444	Physiotherapy in Neurology m	39	15	24
164C9	Topics in Physiotherapy IV	50	-	50
164F4	Musculoskeletal Physiotherapy IV	32	-	32
164F5	Research and Investigation II	30	10	20
164F6	Research and Investigation III	51	10	41
164G0	Cardiopulmonary Physiotherapy III	24	14	10
164F7	Clinical Education IIIA	190	190	-
164F8	Clinical Education IIIB	190	190	-
164F9	Clinical Education IIIC	190		190
<i>Stage Total</i>		<i>866</i>	<i>499</i>	<i>367</i>

Bachelor of Applied Science (Physiotherapy)

The current undergraduate programs are four year full-time programs. 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 these full-time programs are eligible for registration as Physiotherapists with the NSW Physiotherapists Registration Board.

Admission Requirements

There are no formal pre-requisites for HSC candidates to the Bachelor of Applied Science (Physiotherapy) program. As most students will be interacting with computers during their program, experience in the use of computers would be an advantage. Assumed knowledge includes 2u Mathematics, plus either of 2u Physics and 2u Chemistry *or* 3/4 unit Science at HSC level. 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 and the section on Bridging Courses in Chapter 3. Applicants who are not sitting the current NSW HSC examination may be required to demonstrate other entry criteria (eg. exceptional performance in a recognised undergraduate degree program in which they are currently enrolled or completion of a degree) and may be asked to complete a questionnaire specified by the Faculty. Data derived from such questionnaires will be used in the selection process. "Tertiary Record Holder" Enrolment Information Sheets which outline this procedure can be obtained from the School.

The profession of physiotherapy is physically demanding and 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 program.

Any prospective student who thinks that he/she 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.

Course Outline

The course 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 program are required to seek permission to enrol in particular subjects from the designated Academic Program Advisors in the School. This will ensure that students' programs are not severely handicapped by an inappropriate or unmanageable combination of subjects. Attendance at all lectures and tutorials is expected of all subjects. Students entering the program are required to complete all first year subjects within two years and all first and second year subjects within four years.

Subject Descriptions

Subject descriptions are listed as for the current program. Subject descriptions for previous years can be found in previous years' Handbooks.

Year 1

101A4 Psychology of Human Performance Semester 1 - 42 hours

This subject provides an introduction to areas of psychology relevant to health professionals. Major topic areas include consciousness and perception, intelligence, principles of learning, motivation and emotion, personality, developmental psychology, social psychology, and health psychology.

101A6 Psychology of Motor Behaviour

Semester 2 - 28 hours

Pre-requisite Psychology of Human Performance (101A4)

This subject will cover 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 program approaches, motor learning and rehabilitation settings, operant applications, biofeedback and behaviour modification, hemispheric specialisation, handedness, vision and kinesthesia in motor control.

101C5 Research Methods I: Design

Semester 1 - 42 hours

This subject introduces students to the research process and focuses on developing informed consumers of research. This subject begins with brief consideration of the philosophy of sciences, then covers research ethics, qualitative and quantitative research, the development of research questions and the specification of hypotheses and variables, conceptualisation and operationalisation, sampling issues, validity and reliability. A broad range of research methods will be introduced, including experimental research, single case designs, surveys, interview and observational studies, secondary data analysis and content analysis. Data quantification techniques will be discussed and students will be introduced to research applications in the health sciences including needs assessment, evaluation research, action research and epidemiology.

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 - 46 hours

Assumed knowledge Functional Anatomy A (11172)

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 laser, and ultraviolet radiation. Safety issues are emphasised. Also, an emphasis is placed on communication skills development, which is considered an integral part of quality health management. In order to pass this subject a satisfactory standard must be achieved in both the theoretical and practical components of the subject.

16115 Kinesiology!

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 students with a comprehensive understanding of normal movement. Students 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 (sitting, standing up, standing, walking, reaching and manipulation), measurement of joint range, muscle length and 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

Pre-requisite Functional Anatomy A (11172)

Co-requisite Functional Anatomy B (11173)

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 main 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 the legal and ethical aspect of being a professional (eg. respecting patient confidentiality and obtaining informed consent) principles and process of documentation; health service organisations and professions. The second topic area, Teaching and Learning Skills, in workshop and 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 and the analysis and management of group conflict. Links will be made between these two topic areas 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.

22208* 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 Functional Anatomy A and 11173 Functional Anatomy B. 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.

* subject code to be confirmed.

16213 Kinesiology II

Semester 1 - 6 hours

Semester 2-14 hours

Prerequisite Kinesiology I (16115)

This subject provides an opportunity for students 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 students an 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 students to the knowledge, skills and clinical decision making process necessary for effective assessment and management of patients with respiratory and cardiac dysfunction. In particular, students will evaluate the pathophysiological consequences of abdominal and thoracic surgery, infective and inflammatory conditions and airflow limitations on pulmonary function and impaired cardiac function on the cardiovascular performance. Additionally, students 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 students with an opportunity to apply, integrate and extend knowledge gained in year 1 Biological Sciences, Musculoskeletal Physiotherapy and Kinesiology.

16226 Topics in Physiotherapy II

Semester 2 - 26 hours

Co-requisites Clinical Education IA (16233) and IB (16234)

Assumed knowledge Social Interaction, Communication and Personality (10288) or its equivalent

Students will continue their study of legal and ethical issues relevant to the health field (eg. sexual issues in patient management, including sexual misconduct). They will also study the principles and practice of quality management in health care delivery. In addition, students will explore the process of clinical reasoning and the part this process plays in clinical decision-making. Workshop sessions will explore the combined themes of ethics and communication. Students 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.

16231 Electrophysical Agents II

Semester 1-43 hours

Pre-requisite Electrophysical Agents I (16113)

Assumed knowledge Functional Anatomy A (11172), Functional Anatomy B (11173), Kinesiology I (16115), Musculoskeletal Physiotherapy I (16116)

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, transcutaneous electrical nerve stimulation, and introduction to the use of biofeedback units. In order to pass this subject, a satisfactory standard must be achieved in both the theoretical and practical components of the subject. Safety issues are emphasised throughout this subject. Also, an emphasis is placed on communication skills development, which is considered an integral part of quality health management.

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 students with the necessary cognitive and practical skills to effectively assess and manage, at a basic level, patients with selected problems with the peripheral musculoskeletal system. This subject will include a rheumatology component.

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 aims to develop 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 aspects of examination, analysis of information gained from the examination and the implementation of a treatment program. Communication skills development is also an integral part of this subject.

16234 Clinical Education IB

Semester 2-144 hours

Pre-requisite Electrophysical Agents II (16231)

Co-requisites Cardiopulmonary Physiotherapy I (16224); Musculoskeletal Physiotherapy II (16232)

The aim of this subject 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. Communication skills development is also an integral part of this unit.

Year 3**10398 Social Theory and Health**

Semester 1 - 42 hours

This subject aims to develop an understanding of basic sociological concepts and their relationship to health care. The program will increase students' 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 subject will extend students' knowledge of the methods of analysing and interpreting sociological data in the health area.

103B9 Research Methods II Data Analysis

Semester 1-46 hours

Pre-requisite Research Methods I: Design (101C5) or (101A5)

This subject builds on 101C5 and introduces students to basic qualitative and quantitative data analysis techniques. Using examples from physiotherapy practice, this subject introduces students to statistical reasoning and extracting meaning from data. Students will learn about frequency distributions and the visual representation of data, cross-tabulations, measures of central tendency and variability, distributions and standard scores and correlation, and be introduced to regression, chi-square tests, confidence intervals, z-tests, t-tests and analysis of variance. Students will learn how to use computers to assist in data analysis and gain some experience in the analysis of qualitative data.

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.

22309* Applied Physiology

Semester 1 - 26 hours

Semester 2 - 48 hours

Co-requisite Body Systems III (11374)

The aim of this subject is to provide students 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 program and will also attempt to provide students with an understanding of the exercise response in both healthy (eg. marathon runners) and diseased populations (eg. 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.

* subject code to be confirmed.

16320 Physiotherapy in Neurology II

Semester 1-42 hours

Semester 2 - 21 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 rehabilitation/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.

16323 Topics in Physiotherapy III

Semester 1-12 hours

Semester 2 - 30 hours

This subject addresses particular community health issues in two strands. The first 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. The second 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.

16329 Research and Investigation I

Semester 2 - 30 hours

Pre-requisite Research Methods and Statistics II (103B3 or 103B9)

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.

16330 Cardiopulmonary Physiotherapy II

Semester 1 - 24 hours

Semester 2-24 hours

Pre-requisites Body Systems II (11286), Cardiopulmonary Physiotherapy I (16224)

Co-requisite Applied Physiology (22309)

The aim of this subject is to continue to develop knowledge and skills in the assessment and management of patients with cardiopulmonary dysfunction. 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 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.

16331 Musculoskeletal Physiotherapy III

Semester 1 - 70 hours

Semester 2-16 hours

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 I and 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. This subject will include a component of paediatric musculoskeletal physiotherapy.

16332 Clinical Education II

Semester 2 -190 hours

Pre-requisites Clinical Education IA (16233), Clinical Education IB (16234)

Co-requisites Cardiopulmonary Physiotherapy II (16330), Physiotherapy in Neurology II (16320), Musculoskeletal Physiotherapy III (16331)

Students will build on the experience gained in Clinical Education IA and IB. Students 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.

Year 4**10457 Health, Medicine and Society**

Semester 1 - 28 hours

This subject 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 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

Pre-requisites Social Interaction, Communication and Personality (10288)

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 programs, 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.

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; management of people with chronic pain and gerontology.

164F4 Musculoskeletal Physiotherapy IV

*Semester 2 - 32 hours**

Pre-requisite Musculoskeletal Physiotherapy III (16331) or Musculoskeletal Physiotherapy IIIA (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.

Note: Students who have successfully completed the vertebral component of MSII but not the paediatric component may apply to the Head of School to waive this prerequisite

164F5 Research and Investigation II

Semester 1 -10 hours,

Semester 2 - 20 hours i.

Prerequisite Research Methods and Statistics II (10289 or 103B3)

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)

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 IDA

Semester 1 -190 hours

Pre-requisites Clinical Education II (16332), Musculoskeletal Physiotherapy III (16331) or Musculoskeletal Physiotherapy III A (16334)

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. This subject is equivalent in content to 16465 Clinical Education EIA

Note: Students failing Musculoskeletal Physiotherapy m are precluded from undertaking the Musculoskeletal Module of Clinical Education EIA, IIIB or IIIC.

164F8 Clinical Education IIIB

Semester 1-190 hours

Pre-requisites Clinical Education II (16332), Musculoskeletal Physiotherapy III (16331) or Musculoskeletal Physiotherapy I IIA (16334)

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: Students failing Musculoskeletal Physiotherapy III are precluded from undertaking the Musculoskeletal Module of Clinical Education IIIA, IIIB or IIIC.

164F9 Clinical Education IIIC

Semester 2-190 hours

Pre-requisites Clinical Education II (16332), Musculoskeletal Physiotherapy III (16331) or Musculoskeletal Physiotherapy IIIA (16334)

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: Students failing Musculoskeletal Physiotherapy III are precluded from undertaking the Musculoskeletal Module of Clinical Education IIIA, IIIB or IIIC.

164G0 Cardiopulmonary Physiotherapy III

Semester 1 -14 hours

Semester 2-10 hours

Pre-requisite Cardiopulmonary Physiotherapy II (16330), Applied Physiology (11375)

This subject aims to further develop the student's 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 disorders, suppurative and infective lung diseases, restrictive lung disorders. There is an emphasis throughout the subject on self-directed learning and skills in presenting justification for clinical intervention.

Table 13.2 Bachelor of Applied Science (Physiotherapy) - Honours

Course

Code Mode of Offer

1642 Honours Program; Full-time, 4 years

Years 1 and 2 as per Pass program (Table 13.1)

		Total	Sem 1	Sem 2
<i>Year 3 1997</i>				
103B9	Research Methods II: Data Analysis	46	46	-
10392	Research Statistics	28	-	28
10398	Social Theory and Health	42	42	-
11374	Body Systems III	24	24	-
22309	Applied Physiology	74	26	48
16320	Physiotherapy in Neurology II	63	42	21
16323	Topics In Physiotherapy III	42	13	29
16330	Cardiopulmonary Physiotherapy II	48	24	24
16331	Musculoskeletal Physiotherapy III	86	70	16
16335	Research for Physiotherapists	68	36	32
16332	Clinical Education II	190	-	190
<i>Stage Total</i>		711	323	388
<i>Year 4 1997</i>				
10457	Health, Medicine and Society	28	28	-
10479	Health Psychology	42	42	-
16444	Physiotherapy in Neurology III	39	15	24
16499	Honours Thesis	-	-	-
164C9	Topics in Physiotherapy IV	50	-	50
164F2	Honours Research Seminar	75	36	39
164F4	Musculoskeletal Physiotherapy IV	32	-	32
164G0	Cardiopulmonary Physiotherapy III	24	14	10
164G1	Clinical Education IIIHA	152	152	-
164G2	Clinical Education MHB	180	180	-
164F9	Clinical Education IIIC	190	-	190

Honours Program

The following information is specific to the Physiotherapy Honours program. Entry to the Honours program is competitive and requires completion of the first two years of the course with a credit or higher average without any failed grades. An Honours degree is awarded after satisfactory completion of all coursework and a thesis during the third and fourth years of the course. Honours students are required to maintain a credit average in the third year. Students are required to complete all subjects within the Honours program within two years of their initial enrolment in that program. There is no re-examination for any subject in the Honours program. Students who fail to meet these criteria for retaining candidature in the Honours program will be required to discontinue that program. They may be re-absorbed into the Pass program provided they meet the criteria for retention and progression in this course. See Table 13.2 for the course outline.

General policies relating to the Honours Program are presented in Chapter 3. For further information specific to the Physiotherapy Honours Program, students are advised to contact the School's Honours Program Coordinator, Dr Elizabeth Ellis.

In order for honours students to have adequate time to pursue their research studies a number of modifications have been made to the pass program for these students. Modifications 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 Program complete all year 3 and year 4 subjects in the Pass Program, except Research and Investigation I (16329), Research and Investigation II (164F5), and Research and Investigation III (164F6) from which they are exempt.

Clinical Education: In year 4 Honours students complete three clinical education subjects which are similar in content and goals to the pass program subjects. However, the first two subjects vary in hours from the parallel pass subjects. That is honours students complete 164G1 Clinical Education IIIHA instead of 164F7 Clinical Education IHA and complete 164G2 Clinical Education IIIHB instead of 164F8 Clinical Education IIB. They also complete 164F9 Clinical Education IIC along with the pass students. Honours students should note that due to these concessions their total clinical hours are 1000 which is the minimum number of hours required for course completion. Therefore, they are normally required to make up any absences from clinical placements.

Semester 7 Timetabling Flexibility: In semester 7, year 4 students are permitted (with support of their supervisors) to spread their coursework over weeks 4-13 or to concentrate their coursework 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 (eg. in terms of data collection). Notification of the preferred option is required before the end of Week 3 of Year 4.

Additional subjects: Honours students complete the following extra subjects: 10392 Research Statistics, 16335 Research for Physiotherapists, 16499 Honours Thesis and 164F2 Honours Research Seminar

Subject Description

See Pass program subject descriptions for subjects in common with Pass program. Special Honours subjects are as follows:

Year 3

10392 Research Statistics

Semester 2 - 28 hours

Pre-requisite Research Methods II: Data Analysis (103B3 or 103B9)

This subject provides students with the opportunity to extend and consolidate the statistical skills acquired in the previous years of the program and provides the foundation for the statistics which may be used in the Honours research project. Topics to be covered include analysis of co-variance, regression models and introductory multivariate analyses.

16335 Research for Physiotherapists

Semester 1 - 36 hours

Semester 2 - 32 hours

This subject enables students to build on previous knowledge of research methods and to develop skill in applying this to research models for physiotherapists. The subject enables 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 students have completed the subject they will have prepared a written research proposal.

Year 4

16499 Honours Thesis

Co-requisite Honours Research Seminar (164F2)

This subject provides Honours students with the opportunity to undertake a 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.

164F2 Honours Research Seminar

Semester 1 - 36 hours

Semester 2 - 39 hours

Co-requisite Honours Thesis (16499)

The aim of this subject is to develop students' skills required to present orally their research project and to produce their thesis. 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.

164G1 Clinical Education IIIHA

Semester 1 - 152 hours

Pre-requisites Clinical Education II (16332), Musculoskeletal Physiotherapy III (16331) or Musculoskeletal Physiotherapy IIA (16334)

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.

This subject is equivalent in content to 164F7 Clinical Education IIIA

Note: Students failing Musculoskeletal Physiotherapy III are precluded from undertaking the Musculoskeletal Module of Clinical Education IIIA, IIIB or IIC.

164G2 Clinical Education IIIHB

Semester 1 - 180 hours

Pre-requisites Clinical Education II (16325 or 16332), Musculoskeletal Physiotherapy III (16322 or 163331) or Musculoskeletal Physiotherapy IIIA (16334).

Students 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. This subject is equivalent in content to 164F8 Clinical Education IIIB

Note: Students failing Musculoskeletal Physiotherapy III are precluded from undertaking the Musculoskeletal Module of Clinical Education III A, IIIB or IIC. 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 ten hours during the placement to engage in honours studies and/or meetings with supervisors. (Thus this subject is ten hours less than the parallel pass subject).

Clinical Education

Clinical education provides students with the opportunity to complement the knowledge and skills acquired in the academic segments of the program. 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 program 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 second year.

St John Ambulance programs on CPR are available through the metropolitan and country areas. Life-saving certificates of CPR competency will also be accepted.

Since students in the health care professions are usually considered to be in the "High Risk Category" for contacting infections, it is strongly recommended that they familiarise themselves with the detailed information contained in the booklet "Infectious Diseases and You". This is published by the Faculty and is available from Student Administration (Cumberland).

Students are encouraged to be vaccinated for diseases such as Hepatitis A & B, Rubella and Tuberculosis prior to commencing clinical work. Information regarding vaccination is also placed on the Physiotherapy student noticeboards.

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 program.

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 make up time during the intersemester break.

1997 Clinical Practice Dates

Pass and Honours Program

Year 2

Inter-semester Break and Semester 2: Group A July 7 - August 1, Group B August 4 - August 29.

Semester 2: Group A, Group B September 29 - October 24.

Year 3

Group B July 7 - August 8, Group A August 11 - September 12 Pass Program - only.

Year 4

Pre-semester 1: Groups A & B February 17 - March 21

Semester 1: Group A March 24 - April 25 Group B May 5 - June 6.

Semester 2: Groups A & B October 13 - November 14

Honours Program

Year 4

Pre-semester 1 and Semester 1: January 20 - February 14, February 12 - March 21.

Semester 2: October 13 - November 14.

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

Navy blue culottes or navy blue tailored trousers (straight legs)

White blouse

Black /white shoes

Natural coloured stockings with culottes

Navy cardigan or jumper

Male

Navy blue trousers or shorts

White short sleeved, open neck shirt

Black/white shoes

White walk socks with shorts

Navy jumper or cardigan

Any student who does not comply with the above may be sent out of the clinical situation. Arrangements will be made for a representative of the supplier to come to the Student Guild and take uniform orders. Please leave the purchase of your uniforms until this time. Plain navy cardigans and navy pullovers may be purchased at most large department stores.

14 School of Exercise and Sport Science

The School of Exercise and Sport Science is a new school established to promote excellence in the development of knowledge and skills related to human physical performance in the context of sport, recreation, work, leisure and rehabilitation. It is responsible for the undergraduate Bachelor of Applied Science (Exercise and Sport Science), Bachelor of Applied Science (Exercise and Sport Science)(Honours), the Graduate Diploma in Exercise and Sport Science, Master of Exercise and Sport Science by Coursework, Master of Applied Science (Exercise and Sport Science) by Research and PhD supervision in the area of Exercise and Sport Science. The School is also responsible for teaching related subjects in other Schools within the Faculty.

Graduates of the undergraduate and postgraduate programs in Exercise and Sport Science will be prepared for a range of careers including sport science, exercise programming in rehabilitation and specific groups such as the aged, children and spinally injured, and workplace and personal fitness promotion. Examples of professional occupations in this area are sport, exercise or rehabilitation scientist, corporate fitness manager in public and private sector industries, coach and trainer.

Information about the School and its courses of study can be obtained from Student Administration Services (Cumberland), 9 3519161 or from the School of Exercise and Sport Science, 9 351 9612.

Table 14.1 Bachelor of Applied Science (Exercise and Sport Science)

<i>Course</i>		Total	Sem 1	Sem 2
<i>Code</i>	<i>Mode of Offer</i>			
2209	Pass Course; Full-time, 3 years			
2210	Honours Program; Full-time, 4 years			
<i>Year 1</i>				
101C6	Psychosocial Aspects of Recreation and Sport	56	56	
11186	Body Structure, Homeostasis and Movement	112	56	56
11187	Molecules, Food and Energy	56	56	
22101	Mechanisms of Movement	56	56	
22102	Muscle Mechanics	56		56
22103	Mechanisms of Injury	56		56
	Selected Studies ¹ (6 x 28 hours)*	168	56	112
	<i>Stage Total</i>	<i>560</i>	<i>280</i>	<i>280</i>
<i>Year 2</i>				
102B0	Behaviour Modification and Exercise Adherence	56		56
112C5	Kinesiology and Applied Anatomy	56	56	
22201	Growth, Development and Ageing	56		56
22202	Motor Control and Learning	112	56	56
22203	Biochemistry of Exercise	56	56	
22204	Quantitative Biomechanics	56	56	
22205	Exercise Physiology I	112	56	56
	Elective*	56		56
	<i>Stage Total</i>	<i>560</i>	<i>280</i>	<i>280</i>
<i>Year 3 (to be offered from 1998)</i>				
22301	Exercise Physiology II	56	56	
22302	Exercise Testing and Prescription	112	56	56
22303	Advanced Topics in Biomechanics	112	56	56
22306	Research Methods	56		56
22308	Exercise and Rehabilitation	112	56	56
	Electives*	112	56	56
	<i>Stage Total</i>	<i>560</i>	<i>280</i>	<i>280</i>

Notes

- * To fulfil the requirements of the course students are required to complete a total of three elective subjects, one in year 2 and two in year 3.
- # Students are required to complete six of the following selected studies

Selected Studies¹

111 A3	Fundamental Computer Skills
111A4	Data Management & Presentation
22104	Fitness Appraisal
22105	Sport First Aid
22106	Sport, Exercise and the Law
22107	Health Centre Management
22108	Sport Coaching
22109	Resistance Training
22110	Exercise Programming
22111	Video Performance Analysis

'Electives (year S)²

112C7	Hormones, Metabolism and Exercise
22206	Sport Pharmacology
22207	Nutrition and Sport Performance

'Electives (year 3)²

103C1	Behavioural Elective
22304	Occupational Biomechanics
22307	Readings and Conference

Notes

- ¹ The offering of any one of these selected studies will depend on sufficient student demand.
- ² The offering of any one of the elective subjects will depend on sufficient student demand.

Bachelor of Applied Science (Exercise and Sport Science)

An exercise and sport scientist applies a comprehensive understanding of the scientific principles of human movement to the effective design, management and evaluation of exercise interventions (and related lifestyle factors) in the areas of sport and health. These principles may be applied to facilitate recovery from injury, to maximise performance or to generally increase the quality of life of the individual within the person's work, sport, recreation or leisure environments.

Admission Requirements

There are no subject pre-requisites for admission to the Bachelor of Applied Science (Exercise and Sport Science) course. The general admission requirements in Chapter 3 apply. However, prospective students would benefit from undertaking 2 unit Maths, and either one of 2 unit Chemistry, 2 unit Physics, 2 unit Biology or 3/4 unit Science at HSC level.

Course Outline

The course "outline for the Bachelor of Applied Science (Exercise and Sport Science) is presented in Table 14.1.

Subject Descriptions

Core subjects

101C6 Psychosocial Aspects of Recreation and Sport

Semester 1 - 56 hours

There are two strands to this course; a psychology and sociology strand. The psychology strand covers the principles and application of psychology to the sporting context; the concepts of motivation and self-confidence in sport; social relations, group interactions and sport related social phenomena; the importance of information processing and cognitive strategies to enhance sporting performance; and the psychological benefits of exercise. The sociology strand examines the historical origins and contemporary expression of sport and leisure as a dominant aspect of culture; the sources of tensions and conflicts in sport and leisure which are related to power, race, class, gender and age; the role and expression of ideology in sport and leisure contexts; and the use of appropriate theoretical paradigms and methodologies for posing and analysing research questions in the area of the sociology of sport and leisure.

11186 Body Structure, Homeostasis & Movement

Semester 1 - 56 hours

Semester 2-56 hours

Co-requisites Molecules, Food and Energy (11187); Mechanisms of Movement (22101); Muscle Mechanics (22102)

This subject aims to provide an understanding of the intimate relationship between structure and function in the body systems, adapting to and maintaining a homeostatic balance in response to changes in the environment, particularly exercise. This will include an introduction to the major systems of the body including: musculoskeletal, neuro-endocrine, cardiovascular, respiratory, digestive, urinary and lymphatic. The subject includes laboratory classes which incorporate study from human cadavers where appropriate. Attendance at such classes is a requirement for this subject.

11187 Molecules, Food and Energy

Semester 1-56 hours

This subject provides students with a fundamental understanding of the nature of specific biologically important molecules, and their reactions. Students learn how energy is transferred from fuels in order to allow energy-consuming processes, such as exercise, to proceed. This is developed through topics such as the nature of chemical bonds, factors governing rates of chemical reaction (including the role of enzymes) and the structure of carbohydrates, fats, and proteins and their metabolism. Additional topics include exploration of concepts of acids and bases, the role of haemoglobin in oxygen transport, an introduction to the function of vitamins and hormones, and the processes involved in protein synthesis and breakdown.

22101 Mechanisms of Movement

Semester 1 - 56 hours

The general aim of this subject is to develop an appreciation of how mechanical principles can be applied to understand the underlying causes of human movement. Through both lecture and practical sessions, students will become aware of the possibility to optimise human physical performance by applying these principles.

22102 Muscle Mechanics

Semester 2-56 hours

Co-requisite Body Structure, Homeostasis & Movement (11186)
This subject provides students with an in-depth understanding of skeletal muscle as a "machine" which generates force and exchanges power with other systems. The subject covers the microscopic structure of muscle and the molecular basis of force production and regulation. The output characteristics of muscle is described, and the effect of changes in the operating environment of muscle (such as length, velocity, stretch, stimulation patterns, etc) will be explored, including implications for maximising performance. Practical sessions introduces students to a large range of technology used in the fitness and health industries, including the use of electromyography (EMG) for the description of patterns of muscle use during human movement.

22103 Mechanisms of Injury

Semester 2 - 56 hours

Co-requisite Body Structure, Homeostasis & Movement (11186)

This subject provides students with an understanding of the structure of tissues such as ligament, tendon, cartilage and bone, and physical processes whereby the structure of these tissues are disrupted by mechanical trauma. In addition the biological response of these tissues to injury explored (ie. the processes of inflammation and healing) as well as their adaptations to levels of chronic loading such as immobilisation and exercise. The subject addresses how forces are transmitted through specific regions of the body, such as the knee joint, and how protective clothing and sport or work practices may modify the likelihood of injury.

Selected Studies

111 A3 Fundamental Computer Skills

Semester 1/2 - 28 hours

In this subject the student is introduced to the microcomputer, and its basic operating principles and the accompanying operating environment software. In addition, an overview of the operation of the major software packages that would be of use to the practising sport scientist is given.

111A4 Data Management and Presentation

Semester 1/2 - 28 hours

This subject will give the student the knowledge and skills to be able to store and manage experimental and other data using the microcomputer, to use microcomputer tools to present data and reports in an effective way, and to understand the use of computers in communications at a local, national and international level.

22104 Fitness Appraisal

Semester 1/2 - 28 hours

This subject is designed to provide students with the ability to administer exercise tests with an attention to safety and the variability of the individual with respect to age, gender and differing levels of fitness. On completion of the subject students will be able to administer graded exercise tests, prescribe individualised exercise routines and demonstrate competent supervision of exercise

22105 Sport First Aid

Semester 1/2 - 28 hours

This subject aims to provide students with appropriate skills and training for the effective initial management of sport injury situations. On completion of the subject students will be able to execute immediate first aid care with particular attention to extreme environments, soft tissue injuries and demonstrate a sound understanding of communicable diseases and their precautions.

22106 Sport, Exercise and the Law

Semester 1/2 - 28 hours

The legal aspects of exercise prescription, exercise supervision and professional indemnity are emerging as essential requirements in the duty of care for the health professional. This subject aims to provide some fundamental knowledge in this provision of care. On completion of this subject students will be able to demonstrate a legal understanding of the duty of care, the intake, prescription and sale of banned substances, and the duty of care whilst prescribing and supervising exercise programs.

22107 Health Centre Management

Semester 1/2 - 28 hours

This subject offers students the basic management and marketing tools necessary for effective health centre management. On completion of this subject students will be able to understand consumer behaviour, implement marketing principles, and implement effective accounting principles.

22108 Sport Coaching

Semester 1/2 - 28 hours

This subject introduces the student to a range of issues involved in coaching individuals and team sports, children, the disabled and elite athletes. An integrated approach to the basic principles and practice of sports coaching is presented. On completion of this subject the student will be able to develop an effective sport coaching program with an understanding of the fundamental requirements for skill acquisition, physical conditioning and peak performance.

22109 Resistance Training

Semester 1/2 - 28 hours

This subject is designed to provide students with the required understanding of the principles and application of strength training. On completion of this subject students will be able to understand the physiological basis of resistance training, structure an effective resistance training program, and provide strategies to facilitate compliance.

22110 Exercise Programming

Semester 1/2 - 28 hours

Exercise adherence is essential for the effective execution of any exercise program. This subject aims to provide the student with some fundamental information which will assist in the effective design and implementation of an exercise program. On completion of the subject students will understand basic training principles, and implement effective training protocols.

22111 Video Performance Analysis

Semester 1/2 - 28 hours

This subject will include knowledge of video recording systems, principles of performance analysis and reporting. This knowledge will be applied in the generation of the student's own video and analysis.

Year 2

102B0 Behaviour Modification and Exercise Adherence

Semester 2 - 56 hours

The general aim of this subject is to introduce students to the theoretical underpinnings and practical application of behaviour modification techniques, and to psychological approaches to exercise adherence. By exposure to both lectures and seminar sessions, students will obtain the knowledge base to enable them to apply behaviour modification techniques to exercise adherence.

112C5 Kinesiology and Applied Anatomy

Semester 1 - 56 hours

Pre-requisites Body Structure, Homeostasis & Movement (11186), Mechanisms of Movement (22101)

This subject aims to provide students with an in depth understanding of the skeleton, articulations and the muscles of the body. Emphasis will be placed on the functional applied aspects of the musculoskeletal system and how they interact during human movement.

22201 Growth, Development and Ageing

Semester 1 - 56 hours

This subject aims to provide the student with an understanding of growth, development and ageing of the human from prenatal until elderly, with particular reference to the effect on physical performance. Motor skill development and physical performance will be examined and related to morphology and stages of growth. The relationship between biological measurements, growth, gender and chronology will be explored.

22202 Motor Control and Learning

Semester 1&2 - 112 hours

Pre-requisite Body Structure, Homeostasis and Movement (11186), Mechanisms of Movement (22101)

This subject will examine the nature and cause of movement and the maintenance of posture and balance. Models will be developed which emphasise the control of movement as an interaction between the nervous system, skeletal muscle and the environment. The subject integrates the mechanical models of movement presented in previous subjects with biological models to produce a more complete description of the motor system. Students will learn the processes underlying skilled performance, how skilled performances are learned, and how to apply these principles in teaching, coaching and rehabilitative settings.

22203 Biochemistry of Exercise

Semester 1 - 56 hours

Pre-requisites Molecules, Food and Energy (11187)

This subject will explore strategies of energy balance in exercising skeletal muscle: after examining the structure of the ATP producing pathways, their kinetic characteristics will be contrasted in terms of rates of maximum flux and flux capacity. The differential regulation of oxidative phosphorylation, glycolysis and of the creatine kinase reaction, by signals representing exercise intensity and duration will be examined in depth. Specific sporting examples of highpower output (sprinting) and long duration (endurance) activities will be discussed. The processes of fuel mobilisation during exercise and storage during non-exercise periods will be discussed.

22204 Quantitative Biomechanics

Semester 1 - 56 hours

Pre-requisites Mechanisms of Movement (22101)

This subject will give students skills for applying mathematical principles to the study of exercise and sport biomechanics. Content will cover description of the movement of objects in two dimensional space and principles of Newtonian physics. Content will be applied so that students can see how these principles are used to modify human physical performance.

22205 Exercise Physiology 1

Semester 1 & 2-112 hours

Pre-requisite Molecules, Food and Energy (11187)

The content of this subject builds on the principles and information provided in the first year of the program to introduce the student to the exercise response. An integrative approach to the processes associated with physical work capacity and the response of the cardiorespiratory system, acid-base regulatory systems and skeletal muscle to the stresses imposed by exercise will be presented.

Electives (year 2)

112C7 Hormones, Metabolism and Exercise

Semester 2-56 hours

Pre-requisites Biochemistry of Exercise (22203), Exercise Physiology I (22205)

This subject examines the structure and function of hormones, the regulation and response of hormones to exercise and the role hormones play in the exercise response. Particular attention is given to the role and response of hormones with respect to the specificity of exercise, environmental stress, training and clinical states such as diabetes, amenorrhoea and osteoporosis.

22206 Sport Pharmacology

Semester 2 - 56 hours

Pre-requisites Body Structure, Homeostasis and Movement (11186), Biochemistry of Exercise (22203)

This subject provides students with an understanding of the pharmacokinetic and pharmacodynamic action of drugs in the body. Special emphasis will be given to the effects of performance enhancement drugs, therapeutic drugs and recreational drugs on sport performance as well as the use of physiological ergogenic aids in sport. Procedures for drug testing in sport and methods used to avoid detection will also be considered.

22207 Nutrition & Sports Performance

Semester 2 - 56 hours

Pre-requisite Biochemistry of Exercise (22203)

This subject aims to provide the student with an understanding of the principles and practice of nutrition applied to sports performance. The subject will focus on the role of carbohydrates, proteins and lipids in energy metabolism during exercise, the role of macro and micronutrients in health and the effects of eating disorders and dietary deficiencies in athletes.

15 Singapore Conversion Courses

This chapter provides detailed course information about off-shore (Singapore-based) conversion courses to bachelor degrees in nursing, occupational therapy, physiotherapy and medical radiation technology.

The off-shore programs are conducted in Singapore 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 conversion courses for health professionals, namely, nurses, occupational therapists, physiotherapists, and medical radiation technologists, who are local residents of Singapore. Graduates from these programs will receive an award from the University of Sydney. The courses are conducted in a part-time modular mode, the duration being eighteen months to two years (see individual program entries). Several modules described in the Nursing program are common to the Occupational Therapy, Physiotherapy and Medical Radiation Technology programs (see individual program entries).

Each module is conducted over a three week period and comprises of thirty hours of student contact. Modules are programed to allow time between each module for completion of assessment tasks.

The ongoing responsibility for the management of the programs lies with the Faculty of Health Sciences. In particular, the Director, Special Projects and the Dean's Office co-ordinate interactions with the Singapore Institute of Management, the Singapore Ministry of Health and the Faculty of Nursing, the University of Sydney. The role of the Singapore Institute of Management is to provide a vehicle for implementing the course.

The Faculty of Health Sciences also offers 1-year full-time on-shore (Sydney-based) Singapore Conversion programs in occupational therapy, physiotherapy and radiography. These courses are specifically designed for 'A level entry' diplomates who have graduated from Nanyang Polytechnic to convert their diploma qualifications to a Bachelors degree.

Off-Shore (Singapore-based) Programs

Table 15.1 Bachelor of Health Science (Nursing)

Course

Code Mode of Offer

2001 Modular; Part-time, 2 years (September start)

Part-time Mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
20401	The Nature of Health Care Delivery	30		-
20402	Ethical Dimensions of Health Care Delivery	30		-
20403	Psychology of Teaching and Learning	30		-
20404	Research Methods 1	30		-
20405	The Legal Perspective	30		-
20406	Patient/Client Education	45		-
20407	Research Methods 2	45		-
<i>Stage Total</i>		240		
<i>Year 2</i>				
20408	Pathophysiology	30		-
20409	Sociology of Work and Organisations	30		-
20410	Financial Management in the Health Services	45		-
20411	Sociology of Client/Practitioner Relationships	30		-
20412	Health Assessment	30		-
20413	Management in Nursing	30		-
20414	Advanced Clinical Studies	45		-
<i>Stage Total</i>		240		

Note Students may be granted credit for prior learning subject to final approval.

Table 15.2 Bachelor of Health Science (Nursing)

Course

Code Mode of Offer

2011 *Modular; Part-time, 2 years (April start)*

Part-time Mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
20424	The Nature of Health Care Delivery	30		-
20425	Ethical Dimensions of Health Care Delivery	30		-
20426	Psychology of Teaching and Learning	30		-
20427	Research Methods 1	30		-
20428	Patient/Client Education	45		-
20429	The Legal Perspective	30		-
20430	Research Methods 2	45		
	<i>Stage Total</i>	240		
<i>Year 2</i>				
20431	Pathophysiology	30		-
20432	Health Assessment	30		-
20433	Sociology of Work and Organisations	30		-
20434	Management in Nursing	30		-
20435	Sociology of Client/Practitioner Relationships	30		-
20436	Financial Management in the Health Services	45		-
20437	Advanced Clinical Studies	45	"	
	<i>Stage Total</i>	240		

Note.-Students may be granted credit for prior learning subject to final approval.

Bachelor of Health Science (Nursing)

Admission requirements

Applicants should possess:

- 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 twelve months nursing clinical practice;
AND
- e) employment as a registered nurse in a working environment appropriate to their profession and acceptable to the University.

Subject Descriptions

20401/20424 The Nature of Health Care Delivery

Hours - 30

This module introduces students to the social, cultural, political, economic dimensions of health care. The module aims to provide an understanding of the factors which influence the health of the population and the delivery of health care.

20402/20425 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 are presented to provide an underpinning for the examination of health care issues.

20403/20426 Psychology of Teaching and Learning

Hours - 30

This module 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 module explores the concepts of teaching and learning; provides an overview of learning theories and types of learning; considers the significance of motivation and reinforcement in the process of learning; and explores theories of learning in the cognitive, affective and psychomotor domain and consider their implication for teaching.

20404/20427 Research Methods 1

Hours - 30

This module 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 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.

20405/20429 The Legal Perspectives

Hours - 30

This module develops students' awareness of law as it relates to health care and management. Issues relevant to the Singapore legal system will be highlighted.

20406/20428 Patient/Client Education

Hours - 45

This module develops knowledge from Psychology of Teaching and Learning and provides students with the opportunity to develop teaching skills. This module has fifteen non-teaching hours to enable practical application of the theory targets.

20407/20430 Research Methods 2

Hours -45

This module extends the skills acquired in Research Methods I 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.

20408/20431 Pathophysiology

Hours - 30

This module examines the major causative factors of disease and their relationship to the epidemiology of illness.

20409/20433 Sociology of Work and Organisations

Hours - 30

This module 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.

20410/20436 Financial Management in the health services.

Hours -45

This module introduces 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 fifteen non-teaching hours to enable practical application of the theory taught.

20411/20435 Sociology of Client/Practitioner Relationships.

Hours-30

This module 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.

20412/20432 Health Assessment

Hours-30

This module provides students with an understanding of the principles of health assessment and the skills necessary to undertake health history and physical examination.

20413/20434 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.

20414/20437 Advanced Clinical Studies

Hours-45

This module 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 fifteen non-teaching hours to enable practical application of the theory taught.

Table 15.3 Bachelor of Health Science (Occupational Therapy)

Course Code *Mode of Offer*
 2002 *Modular; Part-time, 2 years*

Part-time Mode		Total	Sem 1	Sem 2
<i>Year 1</i>				
20401	The Nature of Health Care Delivery	30		-
20402	Ethical Dimensions of Health Care Delivery	30		-
20403	Psychology of teaching and learning	30		-
20404	Research Methods 1	30	-	-
20405	The Legal Perspective	30		-
20406	Patient/Client Education	45		-
20407	Research Methods 2	45		-
	<i>Stage Total</i>	240		
<i>Year 2</i>				
20408	Pathophysiology	30		-
20409	Sociology of Work and Organisations	30		-
20410	Financial Management in the Health Services	45		-
20411	Sociology of Client/Practitioner Relationships	30		-
20415	Components of Occupational Performance	30		-
20416	Occupational Therapy Theory and Process	30		-
20417	Evaluation of Occupational Therapy Programs	45		-
	<i>Stage Total</i>	240		

Note: Students may be granted credit for prior learning subject to final approval.

**Bachelor of Health Science
 (Occupational Therapy)**

Admission Requirements

Applicants should possess:

- i) A Diploma in Occupational Therapy from Nanyang Polytechnic, Singapore, with "A Level" entry;
 OR
- ii) An approved Diploma in Occupational Therapy from outside Singapore, minimum, three years, with entry level at the minimum eligibility requirements in the GCE "A" level Examinations or the equivalent.

Course Outline

The course outline for the Bachelor of Health Science (Occupational Therapy) Course is presented in Table 15.3.

Subject Description

20415 Components of Occupational Performance

Hours - 30

This module examines further deficits in cognitive, sensory motor and biomechanical components of performance in order to further restore, maintain and enhance human occupational performance. Specifically, students will learn to apply existing knowledge about upper limb orthotics and physical guidance to adults and children with brain impairment.

20416 Occupational Therapy Theory and Process

Hours - 30

This module consists of two parts. Part A provides students with an opportunity to develop a workshop focused around micro skills appropriate for use in community occupational therapy. The students will research and develop a workshop manual and conduct a workshop on a chosen topic. Students further develop their abilities to gather and synthesise relevant data, teach skills, and plan programs in occupational therapy. Part B provides students with an opportunity to develop management skills for occupational therapy practice. Current management theories will be reviewed and applied to occupational therapy practice.

20417 Evaluation of Occupational Therapy Programs

Hours - 30

This module provides students with an understanding of the principles of program evaluation in clinical settings and an introduction to strategies of 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 fifteen non-teaching hours to enable practical application of theory taught.

Note: For descriptions of subjects 20401 -20411 see previous entry under Bachelor of Health Science (Nursing) course.

Table 15.4 Bachelor of Health Science (Physiotherapy)

Course

Code Mode of Offer

2003 Modular; Part-time, 2 years

Part-time Mode

		Total	Sem 1	Sem 2
Year 1				
20401	The Nature of Health Care Delivery	30		-
20402	Ethical Dimensions of Health Care Delivery	30		-
20403	Psychology of teaching and learning	30		-
20404	Research Methods 1	30		-
20405	The Legal Perspective	30		-
20406	Patient/Client Education	45		-
20407	Research Methods 2	45		-
Stage Total		240		
Year 2				
20408	Pathophysiology	30		-
20409	Sociology of Work and Organisations	30		-
20410	Financial Management in the Health Services	45		-
20411	Sociology of Client/Practitioner Relationships	30		-
20418	Evaluation in Physiotherapy	30		-
20419	Topics in Physiotherapy Management	30		-
20420	Advanced Physiotherapy Studies	45		-
Stage Total		240		

Note: Students may be granted credit for prior learning subject to final approval.

Bachelor of Health Science (Physiotherapy)

Admission requirements

Applicants should possess:

- i) a Diploma in Physiotherapy from Nanyang Polytechnic, Singapore, with A level entry;
OR
- ii) an approved Diploma in Physiotherapy from outside Singapore, minimum three years, with entry level at the minimum eligibility requirements in the GCE ^MA" level examinations or their equivalent.

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 topics 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.

* These subjects are currently under review.

Note: For descriptions of subjects 20401 to 20411 see previous entry under Bachelor of Health Science (Nursing) course.

Table 15.5 Bachelor of Health Science (Medical Radiation Technology)

Course

Code Mode of Offer

2004 Modular; Part-time, 2 years

Part-time Mode

		Total	Sem 1	Sem 2
<i>Year 1</i>				
20401	The Nature of Health Care Delivery	30		-
20402	Ethical Dimensions of Health Care Delivery	30		-
20403	Psychology of Teaching and Learning	30		-
20404	Research Methods 1	30		
20405	The Legal Perspective	30		-
20406	Patient/Client Education	45		-
20407	Research Methods 2	45		
<i>Stage Total</i>		240		
<i>Year 2</i>				
20408	Pathophysiology	30		
20409	Sociology of Work and Organisations	30		
20410	Financial Management in the Health Services	45		
20411	Sociology of Client/Practitioner Relationships	30	-	
20421	Department Design and Safety Issues	30	-	
20422	Computer Communications in Medical Radiation Technology	30	-	
20423	Management of Equipment Selection	45		
<i>Stage Total</i>		240		

Note: Students may be granted credit for prior learning subject to final approval.

**Bachelor of Health Science
(Medical Radiation Technology)**

Admission requirements

Applicants should possess:

- i) a Diploma in Radiography from Nanyang Polytechnic, Singapore, with A level entry, AND
- ii) a minimum of one year medical radiation technology clinical practice, OR
- ii) a Diploma of the College of Radiographers (Singapore) or equivalent, AND
- iii) a minimum of three 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 radiation safety. Occupational health and 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 of digital image management and the communication systems needed to facilitate patient care procedures. Concepts including PACS, DICOM, RIS, tele-radiology and record and verify systems will be discussed. This module also provides students with the opportunity to examine computer based methods to efficiently utilise staff time and resources within a Medical Radiation Department.

20423 Management of Equipment Selection

Hours - 30

This module provides students with an understanding of equipment selection and the ongoing requirements of quality assurance programs. The needs assessment, equipment acquisition, commissioning and methods of implementing an ongoing QA program will be presented. This module has fifteen non-teaching hours to enable practical application of theory taught.

Note: For descriptions of subjects 20401 to 20411 see previous entry under Bachelor of Health Science (Nursing) course.

On-Shore (Sydney-based) Programs

Table 15.6 Bachelor of Health Science (Medical Radiation Technology)

Course		Total	Sem 1	Sem 2	
Code	Mode of Offer				
1830 [D]	Pass Degree; Full-time, 1 year				
1831 [R]	Pass Degree; Full-time, 1 year				
10394	Behavioural Science DI	144	84	60	
18220	Radiation Biology and Protection	20	10	10	
18318	Image Processing	48	28	20	
18336	Field Project	168	14	154	
Diagnostic Radiography					
18319	Sonography	58	28	30	
18321	Imaging II	96	56	40	
18322	Radiography II	96	56	40	
18332	Radiographic Pathology II	24	14	10	
18333	Contrast Media	24	14	10	
Radiation Therapy					
18327	Radiation Therapy II	144	84	60	
18328	Radiotherapy Physics II	58	28	30	
18329	Principles of Oncology	72	42	30	
18334	Radiation Therapy Project	24	14	10	
		<i>Stage Total</i>	<i>678</i>	<i>304</i>	<i>374</i>

Bachelor of Health Science (Medical Radiation Technology)

This program is a one year conversion course that leads to a Bachelor of Health Science (Medical Radiation Technology) degree. This course has been designed to complement the three year full-time Diploma in Medical Radiation Technology of the Nanyang Polytechnic by extending the latter's content with emphasis on critical and intellectual inquiry into the fields of Diagnostic Radiography or Radiation Therapy. Graduates of this program would not automatically be accredited by the Australian Institute of Radiography. Enquires with regard to professional accreditation should be directed to that institute.

Admission Requirements

Applicants should possess:

- i) an "A Level" entry Diploma in Medical Radiation Technology program from Nanyang Polytechnic, Singapore;
OR
- ii) an equivalent award subject to approval by the Head of School, such approval may require additional areas of study.*

* subject to final approval.

Course Outline

The program outline for the one year Bachelor of Health Science (Medical Radiation Technology) conversion course is presented in Table 15.6.

Subject Descriptions

10394 Behavioural Science III

Semester 1 - 78 Hours

Semester 2 - 60 hours

There are four units in this subject. The first unit on Life Stress provides students with an understanding of reactions to stress particularly in health care 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.

18220 Radiation Biology and Protection

Semester 1-10 hours

Semester 2 -10 hours

This subject provides an in-depth study of the radiobiological effects and safe usage of ionising medical radiations.

18318 Image Processing

Semester 1 - 28 hours

Semester 2 - 20 hours

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

This subject provides an introduction to the clinical applications and practice of diagnostic ultrasound.

18321 Imaging II*Semester 1 - 56 hours**Semester 2 - 40 hours*

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*

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*

This subject introduces students 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*

This subject provides students with fundamental knowledge of the properties and effects of positive, negative and paramagnetic contrast media, with particular emphasis on intramuscular contrast media. The mechanisms of contrast media reactions, and the treatment of acute reactions will be included.

18327 Radiation Therapy II*Semester I - 84 hours**Semester II - 60 hours*

This subject examines in detail the advanced routine applications of radiation therapy. There is emphasis on developing students' problem solving skills in the context of planning more complex routine treatment techniques. The utilisation of rectangular and irregular beam planning, intracavitary brachytherapy, and the application of cross axial imaging modalities are incorporated into the planning problems presented. In addition, this subject provides an introduction to non routine treatment techniques including stereotatic radiosurgery, intra operative radiotherapy and total body irradiation.

18328 Radiotherapy Physics II*Semester I - 28 hours**Semester II - 30 hours*

This subject provides an introduction to brachytherapy, less common treatment modalities like neutron and pi meson therapy, and developing areas in radiation oncology including the physical basis of three dimensional treatment planning, and the use of asymmetric jaws, multileaf collimators, dynamic wedges and electronic portal imaging devices. Error analysis in the areas of radiation therapy planning and treatment is also investigated.

18329 Principles of Oncology*Semester I - 42 hours**Semester II - 30 hours*

This subject examines the role of radiation therapy in cancer management. Site specific applications and general concepts and interactions with other treatment modalities are covered. There is emphasis on the practical applications of cancer management, patient care, and critical evaluation of treatment outcomes.

18334 Radiation Therapy Project*Semester 1 - 14 hours**Semester 2 - 10 hours*

This subject provides students 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.

18336 Field Project*Semester 1 - 14 hours**Semester 2 - 154 hours*

This subject comprises of a number of modules on clinically related subjects such as quality assurance, department design and safety issues, computer communication and management.

Table 15.7 Bachelor of Health Science (Occupational Therapy)

Course

Code Mode of Offer
1532 Full-time; 1 year

		Total	Sem 1	Sem 2
10295	Research Methods and Design	42	42	-
10296	Research Methods and Statistics	42	-	42
10467	Sociology Elective	28	28	-
15392	Components of Occupational Performance III (Cognitive)	14	-	14
15461	Components of Occupational Performance IV	42	42	-
15462	Occupational Therapy Theory & Process IV	70	42	28
AND				
154A3	Evaluation of Occupational Therapy Program	70	14	56
154A4	Elective subject	84	42	42
154A2	Fieldwork Education	227	-	227
<i>Stage Total</i>		<i>619</i>	<i>210</i>	<i>409</i>

Bachelor of Health Science (Occupational Therapy)

This is a one-year full-time degree conversion course leading to the award of a Bachelor of Health Science (Occupational Therapy) degree. This course has been designed to complement the 3-year full-time Diploma in Occupational Therapy Course of the Nanyang Polytechnic by extending the latter's content and level to that equivalent to a 4-year full-time Bachelor degree. This course emphasizes critical and intellectual inquiry with options for elective subjects.

Admission Requirements

Holders of 'A level entry' Diploma in Occupational Therapy awarded by the Nanyang Polytechnic in Singapore.

Course Outline

The course outlines for the Bachelor of Health Science (Occupational Therapy) Course are presented in Table 15.7.

Subject Description

10295 Research Methods and Design

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 instrumental design, data collection and data analysis using descriptive statistics.

10296 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 of 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 test of significance are introduced for one and two samples using both the normal and student distributions.

10467 Sociology Elective

Semester 1 - 28 hours

Students will be required to choose one sociology option. Electives may include: Women's health issues; sexuality and society; health and the state; community, lifecycle and care; sociology of sport and leisure.

15392 Components of Occupational Performance III (Cognitive)

Semester 2 - 14 hours

The cognitive component of 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.

15461 Components of Occupational Performance IV

Semester 1 - 42 hours

Advanced studies in specific areas of component performance will be undertaken in order for students to identify and critique occupational therapy analysis and intervention in specific areas of biomechanical, sensorimotor, cognitive and psychosocial performance as they underpin human occupational performance. Students will be given an opportunity to choose from several advanced inquiry units.

15462 Occupational Therapy Theory & Process IV

Semester 1 - 42 hours

Semester 2 - 28 hours

This subject aims to provide a forum for the exploration of selected topics related to the process of therapy or matters of current professional concern. Specifically, students will develop professional skills in oral presentation and written documentation related to the intervention process. Students will examine issues of current debate or concern to occupational therapists and the occupational therapy profession. Management issues relative to practice will be discussed and basic management skills developed.

154A3 Evaluation of Occupational Therapy Program

Semester 1 - 14 hours

Semester 2 - 56 hours

This subject gives students the opportunity to utilise beginning research skills and apply them to Program Evaluation in a clinical context. Students will identify an evaluation issue based on their Fieldwork Education placement, research the literature relative to the evaluation issue and prepare an evaluation proposal. The proposal is documented in a written report.

154A2 Fieldwork Education

Intersemester break - 152 hours

Semester 2 - 75 hours

This subject has one 4-week block placement in a professional setting during the intersemester break. It provides students with the opportunity to consolidate and further develop under supervision of the fieldwork supervisor, knowledge, skills and attitudes necessary for safe and effective delivery of occupational therapy services in an area of practice of their choice.

In addition, students will be required to visit one day per week for the first 10 weeks of semester 2 in a fieldwork centre related to the occupational therapy program which they are going to evaluate.

154A4 Elective Study

Semester 1 - 42 hours

Semester 2 - 42 hours

This subject provides students with the opportunity to choose in semester 1 one relevant unit from Human Occupations IV (15460) and additional units from Components of Occupational Performance IV (15461) as their elective units.

In semester 2, they will be given the opportunity to choose a relevant subject from undergraduate courses which are being offered by Schools and/or Departments of the Faculty of Health Sciences, The University of Sydney, subject to the approval of relevant Heads of Schools and/or Departments.

Table 15.8 Bachelor of Health Science (Physiotherapy)

Course

Code Mode of Offer

1650 *Full-time; 1 year*

A) For students commencing enrolment in 1997

Study Preparation Program - 5 weeks pre-semester

Weeks 1-8 only (Audit program - Attendance strongly recommended)'

103B9 Research Methods: Data Analysis

Weeks 1-3 only Year 3 subjects

(Audit program - Attendance strongly recommended)*

11374 Body Systems III Lectures only

11375 Applied Physiology Lectures only

16320 Physiotherapy in Neurology II

16323 Topics In Physiotherapy III

16330 Cardiopulmonary Physiotherapy II

16331 Musculoskeletal Physiotherapy III

Standard Year 4 Program (1997) (formal enrolment)

i0457	Health, Medicine and Society	28	28	-
10479	Health Psychology	42	42	-
16444	Physiotherapy in Neurology III	39	15	24
164C9	Topics in Physiotherapy IV	50	-	50
164F4	Musculoskeletal Physiotherapy IV	32	-	32
164F5	Research and Investigation II	30	10	20
164F6	Research and Investigation III	51	10	41
164F8	Clinical Education EIB**	190	190	-
164F9	Clinical Education niC**	190	-	190
164G0	Cardiopulmonary Physiotherapy III	24	14	10
<i>Stage Total</i>		<i>676</i>	<i>309</i>	<i>367</i>

* These students will be considered with Group B for clinical education placements.

** See Chapter 13 for subject descriptions for these subjects.

Bachelor of Health Science (Physiotherapy)

The conversion program is one year full-time. This program leads to a Bachelor of Health Science (Physiotherapy) degree and aims to equip students with the appropriate knowledge, skills and attitudes to work effectively as members of the physiotherapy profession. Graduates of this program may apply individually for registration as physiotherapists with the Physiotherapists' Registration Board of New South Wales.

Admission Requirements

Entry will be restricted to diplomates who have completed the 'A level entry' Diploma in Physiotherapy from Nanyang Polytechnic in Singapore.' This pass level conversion course is designed to complement the content of the current Diploma in Physiotherapy offered by the School of Health Sciences, Nanyang Polytechnic, Singapore.

Course Outline

The program outline for the one year Bachelor of Health Science (Physiotherapy) conversion course is presented in Table 15.8.

Note: Students will normally complete all subjects listed in the sequence in which they appear in the handbook. Permission to alter this sequence must be obtained from the Head of School.

Subject Descriptions

10457 Health, Medicine and Society

28 hours

This subject 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

42 hours

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 programs, 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

39 hours

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.

164C9 Topics in Physiotherapy IV

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.

164F4 Musculoskeletal Physiotherapy IV

32 hours

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.

164F5 Research and Investigation II

30 hours

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

51 hours

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. Students will investigate an area of physiotherapy of their choice.

164F8 Clinical Education IIIB

190 hours

The student will complete a clinical placement in one of the following areas - neurological, cardiopulmonary, general or musculoskeletal physiotherapy with special emphasis on the management of patients with spinal problems. Paediatric issues may be addressed in any of these areas.

164F9 Clinical Education IIC

190 hours

The student will complete a clinical placement in one of the following areas - neurological, cardiopulmonary, general or musculoskeletal physiotherapy with special emphasis on the management of patients with spinal problems. Paediatric issues may be addressed in any of these areas.

164G0 Cardiopulmonary Physiotherapy III*24 hours*

This subject aims to further develop the student's 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.

16 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 programs 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 co-ordinators, 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, co-ordinator 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 par amount. 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 Program.

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, be 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 public liability and professional indemnity policy which extends to protect students from claims made against them which arise out of any negligent act, error, or omission on the part of the student during such fieldwork. The territorial limit for this coverage is worldwide with the exception of U.S. A. and Canada where the coverage may be limited. 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 Infectious Diseases for Students and Clinical Teachers

Infectious 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 Student Administration Services Division (Cumberland).

Further information about infectious diseases is available, in confidence, from the Faculty adviser, Ms Neryla Jolly, Head, School of Orthoptics (9 351 9250).

Counselling Support for Students on Clinical Placements

Students who feel that they have any personal/family issues which may impact negatively on their performance on clinical placements should contact either their Clinical Coordinator for referral to the Counsellor or may approach the Counsellor at Cumberland directly. The Counselling service at Cumberland is both **FREE** and **CONFIDENTIAL** and **students are encouraged to ask for help as early as possible before their placements begin.** The Counsellor can also provide support for students already on placements who find they are having problems with after hours appointments or by telephone. Typical problems for students on clinic include balancing work and family, stress, interpersonal relationships, supervisor - student relations, anxiety about the workplace etc. The Counsellor is located at Room A005 in A Block and appointments can be made by using the booking sheet there or by calling the Counsellor on 9 3519473.

School of Communication Disorders

The School of Communication Disorders wishes to acknowledge the contributions to the clinical education program December 1995 - December 1996 of the following agencies.

Public Hospitals

Metropolitan

Balmain Hospital
Blacktown Hospital
Campbelltown Hospital
Canterbury Hospital
Concord Hospital
Hornsby Kuringai Hospital
Lidcombe Hospital
Liverpool Hospital
Mona Vale 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
St George Hospital, Kogarah
St Joseph's Hospital, Auburn
War Memorial Hospital, Waverley
Westmead Hospital

Public Hospitals

Overseas/Country/Interstate

Albury Base Hospital
Campbelltown Hospital
Coffs Harbour Hospital
Coledale Hospital
Gosford Hospital
Illawarra Regional Hospital
John Hunter Hospital, Newcastle
Orange Base Hospital
Rankin Park Hospital, Newcastle
Royal Newcastle Hospital
Sir Charles Gairdner Hospital, Perth
Tamworth Base Hospital
Tweed Head Hospital
Woy Woy Hospital
Wyong Hospital

Private Hospitals

Governor Philip Hospital, Penrith
Lourdes Hospital, Dubbo
St Vincent's Hospital

Commonwealth Government Agencies

Commonwealth Rehabilitation Service (CRS)
CRS Camden
CRS Hurstville

Department of Health

Albury Cognitive Rehabilitation Unit
Auburn Community Health Centre
Bankstown Community Health Centre
Bathurst Rehabilitation Centre
Dubbo Community Health Centre
Griffith Community Health Centre
Kingswood Community Health Centre

Lower Hunter Community Health Centre
Marrickville Community Health Centre
Mudgee Community Health Centre
Mullimbimby Community Health Centre
Murwillumbah Community Health Centre
Royal South Sydney Hospital Community Health Centre
Springwood Community Health Centre
Toronto Community Health Centre
Waverly Community Health Centre

Department of Family and Community Services

Campbelltown Child Development Service
Collaroy Developmental Disability Service
Eastern Sydney Developmental Disability Service
Gosford Department of Community Services
Hurstville Department of Community Services
Illawarra Developmental Disability Service
Manly Warringah Developmental Disability Service
Marrickville Developmental Disability Service
Nepean Developmental Disability Service
Port Macquarie Developmental Disability Service
Stockton Hospital

Public Schools

Artnandale Public School
Far West Children Home, Manly
Lucas Heights Public School
Penshurst Public School

Private Schools

St Leonard's School, Naremburn
St Martin's School, Frenchs Forest
St Mary's School, Manly

Community Agencies and Private Organisations

Alice Betteridge School, North Rocks
Spastic Centre of NSW

Other Organisations

Catholic Education Office, Diocese of Broken Bay
Centacare Early Intervention Program

School of Community Health

The School of Community Health wishes to acknowledge the following organisations for their contribution to the 1996 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

Hospitals

Aboriginal and Islander Health, Townsville, QLD
Anton Breinl Centre, Townsville, NSW
Banksia Mental Health Unit, Tamworth Hospital, Tamworth, NSW
Department of Social Work, Royal Alexander Hospital, Camperdown, NSW
Illawarra Area Health Service, Wollongong, NSW
MacQuarie Health, Dubbo, NSW
McQuarie Mental Health Service, East Dubbo, NSW
Narrabri Hospital, Narrabri, NSW
North West Health Service, Tamworth, NSW

Northern Regional Health Authority, Townsville, QLD
Rozelle Hospital, Leichhardt, NSW
Sacred Heart Hospice, Darlinghurst, NSW

Land Councils

Gandagarra Land Council, Canley Vale, NSW
Merrimans Local Aboriginal Land Council, Via Narooma, NSW
NSW Aboriginal Lands Council, Parramatta, NSW
Pilliga Aboriginal Lands Council, Pilliga, NSW
Ulladulla Local Aboriginal Lands Council, Ulladulla, NSW

Aboriginal Medical Services

Aboriginal Medical Service (Nowra), Nowra, NSW
Arunga Health, Matraville, NSW
Awabakal Medical Service, Broadmeadow, NSW
Biripi Aboriginal Medical Service, Taree, NSW
Bourke Aboriginal Medical Service, Bourke, NSW
Brewarrina Aboriginal Health Service, Brewarrina, NSW
Daruk Aboriginal Community Controlled Medical Service, Mt. Druitt, NSW
Durri Aboriginal Medical Service, Kempsey, NSW
Kimberly Aboriginal Medical Service, Broome, WA
Narrabri Aboriginal Health, Narrabri, NSW
Pika Wiya Health Service Inc., Port Augusta, S.A
Redfern Aboriginal Medical Service, Redfern, NSW
Tharawal Aboriginal Medical Service, Campbelltown, NSW
Urapuntje Health Services, Utopia via Alice Springs, NT
Walgett Aboriginal Medical Service, Walgett, NSW
Wellington Aboriginal Medical Service, Wellington, NSW
Wuchoppen Medical Service, Cairns, QLD

Community Health Centres

Aboriginal & Islander Community Health Centre, North Stradbroke Is., QLD
Aboriginal and Islander Community Health Service, Brisbane, Woolloongabba, QLD
Aboriginal and Islander Community Health Service Ipswich, Ipswich, QLD
Aboriginal Community Health, Redfern, NSW
Bega Community Health, Bega, NSW
Community and Allied Health Services, Liverpool, NSW
Community Health Centre, Kempsey, NSW
Community Health Centre, Moruya, NSW
Community Health Centre, Warrawong, NSW
Community Health Tweed Heads, Tweed Heads, NSW
Community Health, Eden, NSW
Community Health, Thursday Island, QLD
Darlinghurst Community Health, Darlinghurst, NSW
Early Childhood Centre, Glebe, NSW
Griffith Community Health Centre, Griffith, NSW
Hoxton Park Community Health Centre, Hoxton Park, NSW
Macksville Community, Macksville, NSW
Narooma Community Health, Narooma, NSW
Orana Far West Region Community Health, Dubbo, NSW
Primary Health Care, Coffs Harbour, NSW
Primary Health Services, Coffs Harbour, NSW
St. Pauls Community Health, Via Thursday Island, QLD
Thursday Island Community Health, Thursday Island, QLD
Toomelah Health Centre, Boggabilla, NSW
Townsville Aboriginal and Islander Community Health Service, Townsville, QLD
Tumet Community Health, Tumet, NSW
Wagga Community Health Centre, Wagga Wagga, NSW
Walhallow Primary Health Post, Caroon, NSW

Drug and Alcohol Services

Aboriginal Co-ordinating Council, Cairns, QLD
Bennalong Haven, Kinchela, NSW
Doonoch, Nowra, NSW
MASH, Moree, NSW
Moree Aboriginal Sobriety House Aboriginal Corporation, Moree, NSW
Oolong Aboriginal Corporation, Nowra, NSW
Orana Haven Aboriginal Corporation, Brewarrina, NSW
Tara Lodge, James Flecher Hospital, Newcastle, NSW

Aboriginal Corporations

Aboriginal and Torres Strait Islander Corporation for Women, Woolloongabba, QLD
Aboriginal Corporation for Homeless and Rehabilitation Services, Summerhill, NSW
Basin Flat Cottage, Via West Kempsey, NSW
Batemans Bay Aboriginal Corporation, Batemans Bay, NSW
Blacktown Aboriginal Corporation, Blacktown, NSW
Boree Aboriginal Corporation, Orange, NSW
Broken Bay Aboriginal Corporation, Wyong, NSW
Bulgarr Ngaru Medical Aboriginal Corporation, Grafton, NSW
Campbelltown and District Aboriginal Corporation, Campbelltown, NSW
Central Southern Aboriginal Corporation for Management and Accounting Services, Wagga Wagga, NSW
Eastern Zone Gujaga Aboriginal Corporation, Matraville, NSW
Gadigal Information Services, Aboriginal Corporation, Strawberry Hills, NSW
Illawarra Aboriginal Medical Service Aboriginal Corporation, Wollongong, NSW
Ivanhoe Aboriginal Corporation, Ivanhoe, NSW
Kalumburu Aboriginal Corporation, Kimberely, WA
Katungul Aboriginal Corporation (Community and Medical Services), Narooma, NSW
La Perouse Community Development Corporation, Matraville, NSW
Munjuwa Aboriginal Corporation, Queanbeyan, NSW
Riyerina Medical and Dental Aboriginal Corporation, Wagga Wagga, NSW
St. Clair Aboriginal Corporation, Singleton, NSW
Twofold Aboriginal Corporation, Eden, NSW
Urimbirra Aboriginal Corporation, Bonnyrigg, NSW
Wagga Advancement Aboriginal Corporation, Wagga Wagga, NSW
Waminda South Coast Women's Health Aboriginal Corporation, Nowra, NSW
Weimija Aboriginal Corporation, Broken Hill South, NSW
Willow Bend Aboriginal Corporation, Condobolin, NSW
Wreck Bay Aboriginal Corporation, ACT
Yarrawarra Aboriginal Corporation, Coffs Harbour, NSW

Aboriginal Organisations

Aboriginal and Islander Child Care, Brisbane, QLD
Aboriginal and Islander Health Workers Journal, Matraville, NSW
Aboriginal Birthing Project, Port Augusta, SA
Aboriginal Business Enterprise Centre, Randwick, NSW
Aboriginal Dance Theatre, Strawberry Hills, NSW
Aboriginal Family Care Community Organisation, Bodalla, NSW
Aboriginal Hostels, Darlinghurst, NSW
Aboriginal Housing Company, Strawberry Hills, NSW

Aboriginal Legal Service, Blacktown, NSW
Aboriginal Legal Service, Strawberry Hills, NSW
Aboriginal Media Unit, Surry Hills, NSW
Aboriginal Student Support Parent Association Committee, Batemans Bay, NSW
ATSIC, Dubbo, NSW
Barriekneal Housing Company, Lightning Ridge, NSW
Batemans Bay Koori Centre, Batemans Bay, NSW
Bodella Aboriginal Housing Company LTD, Bodella, NSW
Boomanulla Oval, Narrabundah, ACT
Browns Flat Aboriginal Corporation, Nowra, NSW
Central Coast Aboriginal Health Action Group, Gosford, NSW
Cobar Aboriginal Advancement Association, Cobar, NSW
Gullama Aboriginal Services Centre, Alexandria, NSW
Gunaana Inc, Dubbo, NSW
Illawarra United Aboriginal Corporation for Sport and Recreation, Wollongong, NSW
Innovative Youth Programme, Woolloongabba, QLD
Karringal Youth Crisis Centre, Croydon, NSW
Korri Aged Community Care, Narooma, NSW
Moree Aboriginal Legal Service, Moree, NSW
Mundarra Aboriginal Youth Service, Mt. Druitt, NSW
Murawina Mt. Druitt Aboriginal Child Care Program, Mt. Druitt, NSW
Murawina Multi Purpose Aboriginal Education Centre, Redfern, NSW
Pjunju, Minto, NSW
Queanbeyan Aboriginal Legal Service, Queanbeyan, NSW
Queanbeyan Aboriginal Legal Service, Queanbeyan, NSW
Rose Mumbler Village, Nowra, NSW
South Coast Aboriginal Centre, Nowra, NSW
South Coast Aboriginal Centre, Nowra, NSW
South Coast Aboriginal Legal Service, Nowra, NSW
South Coast Youth Movement Aboriginal Corporation, Nowra, NSW
Sydney Institute of Technology Eora Centre for Aboriginal Studies - Visual and Performing Arts, Chippendale, NSW
Towri Multi Functional Aboriginal Children's Service Centre, Bathurst, NSW
Wee Waa CDEP, Wee Waa, NSW
Wunabiri Pre-School Kindergarten, Surry Hills, NSW
Yalga Bimbi, Cairns, QLD
Yinganeh Womens Refuge, South Lismore, NSW

Community Organisations & Services

A Woman's Place, Potts Point, NSW
Aboriginal and Torres Strait Islander Commission State Office, Sydney, NSW
Aboriginal Children's Service, Redfern, NSW
Aboriginal Childrens Service (St. Marys Branch), St. Marys, NSW
Aboriginal Health Resource Co-op Ltd., Strawberry Hills, NSW
Aboriginal Health, North Sydney, NSW
Amaru Skill Share Provider, Campbelltown, NSW
Armidale Shelter, Armidale, NSW
Australian Museum, Sydney, NSW
Campbelltown Police Station, Campbelltown, NSW
Central Coast Division of General Practice, Gosford South, NSW
Department of Social Services, Nowra, NSW
Home Care Dubbo, Dubbo, NSW
Home Care Service, Armidale, NSW

Home Care, Central Coast Branch, Wyong, NSW
 Home Care, Mt. Druitt, NSW
 Kirketon Road Centre, Kings Cross, NSW
 Koori Unit, SBS Television, Crows Nest, NSW
 Marcia's Woman's Refuge, Campbelltown, NSW
 NSW Police Department, North Region, Gosford, NSW
 NSW Police Department, North West Region, Parramatta, NSW
 NSW Police Department, South Region, Erskinville, NSW
 Police Citizens Youth Club, Waterloo, NSW
 Police Koori Network, Liverpool, NSW
 Skillshare, Moruya, NSW
 Southern Womens' Housing, Bega, NSW

Ministerial Office

Dr Andrew Refshauge, Minister for Aboriginal Affairs, North Sydney, NSW

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; Horrisby 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 Communication 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.
 Home Care Service of NSW, Parramatta
 Human Resources Centre, Skillshare, Narrabeen
 I.C.L.A., Bondi Junction
 Institute, Selah House, The Bridge Program
 Job Support Inc
 Jobmatch, Parramatta
 Katoomba Skillshare
 Kingsford Rehabilitation Centre
 Labor Council of NSW
 Lifeline, Manly-Warringah
 Lisa Castles and Associates, Deakin, ACT
 Liverpool Skillshare
 M.E.T.S., Seven Hills
 Mamre - Open Access Employment Program, St Mary's
 Manly Community Service Centre
 Marrickville Skillshare
 Mission Employment, Granville; Campbelltown;
 Mt Druitt; Punchbowl
 Multiple Sclerosis Society of NSW, Lidcome
 NADOW Training Program
 NOVA Employment Training Program Inc.
 NSW Society for Children & Young Adults
 with Physical Disabilities
 Occupational Health Professionals, Wetherill Park
 Odyssey House, Eagle Vale
 Paraquad Association of NSW
 Peninsula Work Ventures Maroubra
 Phoebe House
 Practical Employment Service, Gosford
 QANTAS
 Quest for Life
 Rehabilitation Resource Centre, Chatswood
 Roslyn St Youth Crisis Centre, Kings Cross

Royal Blind Society of NSW
 Royal Rehabilitation Occupational Health Unit, Ryde
 RPS Medicorp, Parramatta
 S.T.A.R.T.T.S., Fairfield
 Stafford House
 Sutherland Skillshare
 SYD-WEST Personnel, Parramatta
 The Salvation Army, William Booth
 The Shepherd Centre, Darlington
 The Spastic Centre of NSW,
 The Wayside Chapel
 Triple Care Farm, Sydney City Mission, Robertson
 Vocational Capacity Centre, North Sydney
 Vocational Rehabilitation Service, Eastwood
 Waverley Jobhunt
 Wesley Skillshare Program, Sydney South
 Western Sydney ITeC
 Workers' Health Centre, Granville
 Workscope, Breakfast Creek, QLD
 Workskill Training Inc.

Other Organisations

Overseas
 National Society for the Prevention of Cruelty to
 Children, Newcastle, England

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
 Blacktown District
 Blacktown/Mt Druitt Health, Mt Druitt Campus
 Campbelltown
 Canterbury
 Cumberland, Parramatta
 The New Children's Hospital, Westmead
 Fairfield District
 Hawksbury, Windsor
 Hornsby Ku-Ring-Gai Hospital & Area Health Service
 Liverpool
 Manly Hospital & Community Health Services
 Mona Vale
 Nepean Hospital Penrith
 Prince of Wales, Randwick
 Royal Hospital for Women, Paddington
 Royal North Shore, St Leonards
 Royal Prince Alfred, Camperdown
 Royal Ryde Rehabilitation
 Rozelle, Leichhardt
 Ryde Hospital & Ryde-Hunters Hill Area Health Service
 St George, Kogarah
 St Vincent's, Darlinghurst
 Sutherland Hospital Caringbah
 Sydney
 Westmead
 Repatriation General Hospital, Concord
 Lady Davidson, Turrumura
 Sydney Children's, Randwick
 St. Joseph's, Auburn

St. John of God, Burwood
 Sydney Eye, Sydney
 Rachel Forster, Redfern

Country/Interstate

Bathurst District
 Central Coast
 Coffs Harbour and District Hospital
 Dubbo Base
 Forbes District
 John Hunter, Newcastle
 Launceston General, Launceston, Tasmania
 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

The Hills Private
 St George Private
 St Vincent's Private, Darlinghurst
 Sydney Adventist, Wahroonga
 The Poplars, Epping
 Mater, Crows Nest
 Newcastle Mater, Waratah
 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 Community & Health Services, Hobart
 National Coding Centre, Lidcombe

Other Organisations

Health Information Management Association of Australia, North Ryde
NHMRC Clinical Trials Centre, The University of Sydney
Veterinary Teaching Hospital, The University of Sydney
3M Health Care Group
Rolls Printing, Bondi

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

Border Medical Imaging, Albury
Alice Springs Hospital, Alice Springs
Ashfield Medical Imaging, Ashfield
Auburn District Hospital, Auburn
Auburn Diagnostic Centre, Auburn
Auburn Ultrascan, Auburn
Bankstown Day Surgery And Specialist Centre, Bankstown
Bankstown District Hospital, Bankstown
Bankstown X-Ray & Ultrasound, Bankstown
Dr K Neale, Bathurst
Bathurst Base Hospital, Bathurst
Baulkham Hills Private Hospital, Baulkham Hills
Act X-Ray Services, Belconnen
Belmont Hospital, Belmont
Blacktown Radiology, Blacktown
Blacktown District Hospital, Blacktown
Blacktown X-Ray Centre, Blacktown
Sydney X Ray, Bondi Junction
Broken Hill Hospital, Broken Hill
Calvary Hospital, Bruce
Bulli District Hospital, Bulki
Camden Hospital, Camden
Campbelltown Hospital, Campbelltown
Mediscan, Campbelltown"
Lim & Associates, Campbelltown
Royal Prince Alfred Hospital, Camperdown
Canterbury District Hospital, Campsie
Campsie Imaging, Campsie
Sutherland Hospital, Caringbah
Caringbah C T, Caringbah
Castle Hill Radiology Centre, Castle Hill
Cessnock District Hospital, Cessnock
Chatswood X-Ray, Chatswood
Coffs Harbour District Hospital, Coffs Harbour
Concord Repatriation General Hospital, Concord
St Vincent's Hospital, Darlinghurst
St Vincent's Private Hospital, Darlinghurst
John James Hospital, Deakin
Dee Why X-Ray And Ct, Dee Why
Dubbo Base Hospital, Dubbo
Orana Radiology, Dubbo
Eastwood X Ray Centre, Eastwood
Act X-Ray Services, Erindale
Act X-Ray Services, Erindale
Fairfield X-Ray, Fairfield
Frenchs Forest X Ray, Frenchs Forest
Gold Coast Hospital, Gold Coast
Gosford District Hospital, Gosford
Gosford District Hospital, Gosford

Gosford Radiology Centre, Gosford
Grafton Base Hospital, Grafton
City Medical Imaging, Haymarket
Hornsby & Ku-Ring-Gai Hospital, Hornsby
Hurstville X-Ray & Ultrasound, Hurstville
Blue Mountains District Hospital, Katoomba
Kempsey Hospital, Kempsey
St George Hospital, Kogarah
St George Imaging Centre, Kogarah
Lakemba X Ray Centre, Lakemba
Launceston General Hospital, Launceston
Lidcombe Hospital, Lidcombe
Lismore Base Hospital, Lismore
North Coast Radiology, Lismore
Lithgow District Hospital, Lithgow
Liverpool Hospital, Liverpool
Rayscan Imaging, Liverpool
Ultrascan, Liverpool
Manly District Hospital, Manly
Miranda Imaging, Miranda
Mqna Vale Hospital, Mona Vale
Moree Hospital, Moree
Mt Druitt Hospital, Mt Druitt
Castlereagh Radiology, Mt Druitt
Ultrascan, Mt Druitt
John Hunter Hospital, Newcastle
Dr Whistler & Lee, Nowra
Parramatta Imaging, Nth Parramatta
Orange Base Hospital, Orange
Castlereagh Radiology, Penrith
Ultrascan, Penrith
Nepean Hospital, Penrith
Hastings District Hospital, Port Macquarie
Fairfield District Hospital, Prairiewood
Queenbeyan District Hospital, Queenbeyan
Act X Ray, Queenbeyan
Prince Of Wales Hospital, Randwick
Sydney X Ray, Randwick
Revesby X Ray Centre, Reevesby
Riverstone X Ray Centre, Riverstone
Riverwood X Ray Centre, Riverwood
Ryde Hospital, Ryde
Shellharbour District Hospital, Shell Harbour
Royal North Shore Hospital, St Leonards
North Shore Medical Centre X-Ray, St Leonards
Sutherland Imaging Centre, Sutherland
Sydney Hospital, Sydney
Tamworth Base Hospital, Tamworth
Manning Base Hospital, Taree
Sydney Adventist Hospital, Wahroonga
Mater Misericordiae Hospital, Waratah
Port Kembla District Hospital, Warrawong
Dr Hudson & Partners, Wentworthville
Westmead Radiology Centre, Westmead
Westmead Hospital, Westmead
Royal Alexandra Hospital For Children, Westmead
Westmead X-Ray, Westmead
Hawkesbury Hospital, Windsor
Woden Valley Hospital, Woden
Wollongong Hospital, Wollongong
Illawarra Radiology, Wollongong

Radiation Therapy

Adventist Hospital
Liverpool Hospital
Mater Misericordiae Hospital
Mater Misericordiae Hospital
Prince of Wales Hospital
Royal North Shore Hospital
Royal Prince Alfred Hospital
St George Hospital
St Vincents Hospital
Westmead Hospital
Woden Valley Hospital
Wollongong Hospital

Nuclear Medicine

Allamander Priv. Hospital
Ashley Centre
Bankstown Lidcombe Hospital
Blacktown Nuclear Imaging
Brisbane Waters Private Hospital
Burwood Nuclear Medicine
Central Coast Nuc Med
Central West Nuclear Medicine
Dee Why Nuclear Medicine
Diagnostic Nuclear Medicine Suite 101
Dr Reg Hutchinson Suite 904
Dubbo Private Hospital
Holy Spirit Medical Imaging
Hornsby Hospital I
Hornsby Kuringai Nuclear Medicine
Hurstville Community Cooperative Hospital
Illawarra Nuclear Imaging
John James Hospital
Launceston General Hospital
Liverpool Hospital
Mater Private Hospital
Missenden Medical Centre,
North Coast Nuclear Medicine
Nth Coast Radiology
Orange Base Hospital
PET Centre, A7 RPAH
Port Macquarie Medical Imaging Hermitage Building
POWH
Queensland X ray Services
Repatriation General Hospital
RNSH
Royal Brisbane
Royal Perth
RPAH Medical Centre
Ryde Medical Centre
Seventh Day Adventist Hospital
Sir Charles Gardner
South West Nuclear Medicine
St Andrews War Memorial Hospital
St George Hospital
St George Nuclear Imaging
St George Private Hospital and Medical Centre
St Vincent's Hospital
Standish Medical Centre
Sutherland Nuclear Medicine
The Canberra Hospital

The New Childrens Hospital
Wales Medical Centre
Western Nuclear Medicine Group
Westmead Hospital
Wollongong Hospital

School of Orthoptics

The School of Orthoptics acknowledges the following for their support in the School's Clinical Education Program.

Public Hospitals

Metropolitan

Blacktown
Concord Repatriation General
Lidcombe
Liverpool
Prince of Wales, Randwick
Ryde Rehabilitation & Geriatric Service
St George, Kogarah
St Vincent's, Darlinghurst
Sydney Eye, Woolloomooloo
The New Children's Hospital, Westmead
Westmead

Country/Interstate

Gosford District
Princess Alexandra, Woolloongabba
Repatriation & General, Daw Park, Adelaide
Repatriation & General, Greenslopes, Brisbane
Royal Brisbane
Wagga Wagga

Overseas

Auckland, New Zealand

State Government Departments and Agencies

Community Health Centres:

Kingswood
Western Sydney Developmental Disability
Service, Marsden Campus

Community Agencies and Private Organisations

Alice Betteridge School
Royal Blind Society of NSW - Enfield, Newcastle
& Canberra
Royal Far West Children's Health Scheme, Manly
Spastic Centre, Allambie Heights

Private Practitioners

Private Practices

S Brunner
J Cumines
AMacfarlane

Private Sponsored Practices

M Awad, Y Makdissi - Dr S Franks
K Bourne - Dr F Martin
P Britz - Drs M Manku, C Joneshart, W Porter
Dr C Challinor
M Courtney - Drs I Goldberg & G Cohn
Jellery-DrKChatfield
D Ferguson - Dr K Frumar
R Kay - Drs J Peters, J Dickson & C Thomas
R Keirnicky, K Pallett - Dr T Keldoulis

R Krikorian - Dr A Hunyor
R Lang - Drs C Baker, W Barnett & Moore
V Mercer - Drs D Sharota & L Dinihan
Dr W Muntz
J Richardson - Dr I Francis
M Rodkin - Gibb & Beeman, Optometrists
V Tosswill - M Strathdee
G van Beveren - Dr S Saunders

School of Occupational Therapy

The School of Occupational Therapy wishes to acknowledge the following agencies for their valuable contribution to the 1996 Fieldwork Program for its students in the Bachelor of Applied Science (Leisure and Health) and the Bachelor of Applied Science (Occupational Therapy).

Aged Care Assessment Team, Kurri Kurri
Aged Community Service Team
"Aimees" Dementia Day Care Centre - Fairfield
Anglican Retirement Village - Castle Hill
Ashfield Community Health Centre
Auburn Aged Day Care Centre, Auburn
Auburn/Holroyd School Therapy Team - Guildford
Auburn Hospital
Aldersgate House Nuring Homes
Allowah Babies, Dundas
Alwyn Rehabilitation, Strathfield
Alice Betteridge School
Anna Maria Nursing Home, Putney
Armon Nursing Home, Petersham
Balmain Hospital
Banksia House
Bankstown Hospital
Bankstown Community Resource Team
Bankstown Community Health Centre
Bankstown Department of Community Services
Beecroft Nursing Home
Bethany Nuring Home, Eastwood
Bethel Nursing Home, Ashfield
Birdwood Road Day Care Centre, Georges Hall
Blacktown District Hospital
Blacktown City Mental Health Service
Blacktown Community Services Centre
Blacktown/Mt. Druitt Area Health Service
Bossley Park Nursing Home
Botany Community Health Centre
Bridgeway House Living Skills Centre
Brookvale Living Skills Centre
Buckingham House - Surry Hills
Bundara Psychiatric Rehabilitation Service
Calvary Hospital (ACT)
Calvery Hospital - Kogarah
Camden District Hospital
Campbelltown Hospital
Campbelltown Community Health Service
Canterbury Area Health Service
Canterbury Hospital
Canterbury Intensive Community Support Services
Caringbah Community Health Centre
Centacare Early Intervention Team
Canterbury Aged Services - Campsie
Chalmers Road Public School, Strathfield

Chatswood Community Health
Chatswood Community Nursing Home
Chatswood Day Centre
Chesalon Nursing Home, Jannali
Chester Hill Neighbourhood Centre
Child Health and Development Service
Commonwealth Government Departments and Agencies
Commonwealth Rehabilitation Service
Community Services Centres
Concord Hospital
Condell Park Residential Service
Convalescents, Camden
Crisis Assessment and Treatment Team, Newcastle
Croydon Living Skills Centre
Cumberland Hospital
Cumberland College
Dalcross Private Hospital - Killara
Department of Community Services
Developmental Disability Service - Mt Druitt
Dorothy Henderson Lodge, Marsfield
Dickson Day Centre, ACT
Dixson Unit Geriatric and Rehabilitation Unit - Ryde
Early Education Programme - Sydney City Mission
Eastern Suburbs Private Hospital - Randwick
Early Intervention Team - Waverley
Edinglassie Retirement Village, Emu Plains
Ellamatta Lodge, Mosman
Endeavour Nursing Home, Springwood
Evesham Clinic, Cremorne
Eversleigh Hospital
Eversleigh Hospital - Palliative Care
Fairfield District Hospital - Rehabilitation Unit
Fairfield Living Skills
Frank Vickery Village, Sylvania
Frank Whiddon Masonic Homes, Glenfield
Garrawarra Centre for Aged Care
Gertrude Aboot Nursing Home, Surry Hills
Gladesville - Macquarie Hospital
Glebe Community Care Centre
Gowrie Village
Governor Phillip Special Hospital - Penrith
Government Departments and Agencies
Graithwaite Nursing Home
Greystanes Children's Home
Greenwich Hospital
Greenhouse Living Skills Centre
Guildford Neighbourhood Centre
Hand in Hand, Waitara
Headway Adult Development Program - Bankstown
Hevington House Day Care, Auburn
Holroyd Disabilities Service
Hornsby Ku-Ring-Gai Hospital and Area Health Service
Hunter Aged Care Assessment Team
Independent Living Centre
Ingleburn Area Health
IRS Total Injury Management - North Parramatta
James Milson Nursing Home, Surry Hills
John Hunter Hospital
John Williams Therapy Centre - Wahroonga
Kalparrin, Concord Hospital - Ward 18
Kalinda Living Skills
Karradji - Ryde Community Mental Health - Eastwood
Kilbride Nursing Home, Campbelltown
Killarney Court Hostel

Kindilan Frail Aged & Respite Day Centre
 Lady Davidson - North Turrumurra
 Lakes Rehabilitation Team
 Laurel House - Parramatta
 Leisure World Nursing Home/Moonby House Nursing Home, Peakhurst
 Liverpool Department of Community Services
 Liverpool Hospital
 Liverpool Living Skills
 Living Skills Centre - Wahroonga
 Lottie Stewart Hospital - Dundas
 Lower Hunter Community Health Centre
 Lower North Shore Supported Housing Services - Castlecrag
 Macarthur Paediatric O.T., Camden
 Macquarie Hospital
 Manly Hospital and Community Health Service
 Manly-Warringah Developmental Disability Service
 Marsden Centre
 Marsden Hospital
 • Marsh Occupational Health
 Marrickville District School Therapy Team - Lakemba
 Mater Misericordiae Hospital - Waratah
 Mater Dei School - Camden
 Metropolitan Rehabilitation Private Hospital - Petersham
 Mobile Community Management Team
 Mona Vale Hospital and Warringah Area Health Service
 Montefiore Jewish Home
 Mt Druitt Community Health Service
 Mt Druitt Hospital
 Mount Wilga - Hornsby
 Multiple Sclerosis Society of NSW, Lidcombe
 Myrtle Cottage Group
 Neringah Hospital - Wahroonga
 Nepean Hospital - Penrith
 New Ellamatta Lodge - Mosman
 Northaven Retirement Village, Turrumurra
 Northern Beaches Community Resource Team - St. Leonards
 N.S.W. Society for Children and Young Adults with Physical Disabilities
 N.S.W. Department of Sport, Recreation and Racing
 Our Lady of Consolation, Rooty Hill
 Parkdale Nursing Home, Waverley
 Pecky's Playground, Prospect
 Penrith Community Services Centre
 Prairewood Community Health Centre - Wetherill Park
 Prince Henry Hospital - Little Bay
 Prince of Wales Hospital - Randwick
 Princess Juliana Lodge
 Qualitec Ltd - Granville
 Queenscliff Health Centre - Manly
 Rachel Foster - Redfern
 Rehabilitation Module - Marrickville
 Redfern Community Health Centre
 Rehabilitation Module, Marrickville
 Rehabilitation Resource Team - Chatswood
 Resolutions Health Management - Glebe
 Restart Consulting - Double Bay
 Royal Alexandra Hospital for Children
 Royal Blind Society of NSW
 Royal North Shore Hospital - St Leonards
 Royal Prince Alfred Hospital - Camperdown
 Royal Rehab Centre - Ryde
 Rozelle Hospital
 RSL Veterans' Village

Ryde Hospital and Ryde-Hunters Hill Area Health Service
 Ryde Rehabilitation Centre
 St George (Sacred Heart Hospice)
 St George Division of Mental Health
 St George Hospital - Kogarah
 St George Living Skills
 St George School., Rockdale
 St Joseph's - Auburn
 St Kevins School - Dee Why
 St Vincent's Hospital - Darlinghurst
 Sans Souci Retirement Hostel
 Sacred Hearts Hospice
 Shalom Hostel and Nursing Home for Aged, Marsfield
 Sir Eric Woodward Special School
 South Sydney Hospital
 Southern Cross Homes, Merrylands
 Southcare - Miranda
 Southcare Community Rehabilitation Team - Sutherland
 Spastic Centre of NSW
 Stockton Centre
 Strickland Villa, Prince of Wales Hospital
 Sutherland Community Rehabilitation Team
 Sutherland Hospital
 Sutherland Living Skills Centre
 Sydney Hospital Hand Unit
 Sydney Hospital Occupational Health & Safety
 Sylvania Community Health Centre
 Technical Aid to the Disabled - Ryde
 The Cottage Family Care Centre - Campbelltown
 The Hills Community Health Centre - Castle Hill
 The Hills District School for Special Purposes, Northmead
 The Greenhouse - East Sydney
 The Palms Nursing Home, Kirrawee
 The New Children's Hospital, Westmead
 Total Rehabilitation Service
 Trentham Nursing Home, Willoughby
 Tuggeranong Seniors Centre
 Wade-Lyn Nursing Home, Hurstville
 War Memorial - Waverley
 Waratah Nepean Developmental Disability Service
 Waratah Orthopaedic School
 Waverley Community Health Centre
 Waratah Nepean Developmental Disability Service (Hunter Equipment Service)
 Waratah Orthopaedic School
 Weemala, Ryde Rehabilitation Hospital
 Weeroonga Training, Recreation & Resource Centre - Brookvale
 Western Area Adolescent Assessment Team - Mt Druitt
 Wesley Gardens Retirement Village, Belrose
 Wesley - Ashfield
 Westmead Hospital
 Wicks Living Skills Centre
 Wontama Day Centre
 Yallambi Nursing Home for Aged Ladies
 Yarrawarra Living Skills Centre - Bankstown
 Department of Community Services

Community Agencies and Private Organisations

Country
 ACT Rehabilitation Service
 Aged Care Assessment Team, Kurri Kurri
 Aged Care Advisory Service - Wagga Wagga
 Albury Base Hospital

Albury Mercy Hospital
 Albury Community Health
 Anne Crane (Private Practice) - Bonville (Coffs Harbour)
 Armidale Community Services Centre
 Armidale and New England Hospital
 Ballina Hospital
 Baringa - Fairymeadow
 Baringa Private Rehabilitation Hospital - Coffs Harbour
 Bathurst Brain Injury Unit
 Bathurst Rehabilitation Centre
 Bathurst Aged Care Team
 Bega Community Health Centre
 Belconnen Health Centre, ACT
 Bellingen River and District Hospital
 Belmont District Hospital
 Berkley Vale Private Hospital
 Blue Mountains District Memorial
 Blue Mountains District Health Service
 Bowral & District
 Bowral Community Health Centre
 Bulli Community Health Centre
 Broken Hill Base Hospital
 Byron Bay Primary Care
 Calvery Hospital ACT (Inc)
 Camden District Hospital
 Campbell Hospital - North Coast - Coraki
 Campbelltown Hospital
 Canberra Occupational Therapy Services
 Carrington Centennial Hospital
 Casino Community Health Centre
 Central Coast Area Health Service
 Cessnock Base Hospital
 Civic Regional Unit - ACT
 Coffs Harbour Base Hospital
 Coledale District Hospital
 Commonwealth Rehabilitation Service
 Cootamundra Hospital
 Coorabel Hospital
 Cowra District Hospital
 Crisis Assessment and Treatment Team - Newcastle
 Child Assessment & Intervention Team "Kids Cottage"
 Child Development Unit - Goulburn
 Coffs Harbour Rehabilitation
 Community Disability Service - ACT
 Community Medicine Services - Toowoomba
 Community Mental Health - Goulburn Base Hospital
 Community Resource Team
 Community Service Centre - Lismore
 Cooma Hospital
 Department of Community Services
 Department of Family Services - Toowoomba
 Doc's - Glen Innes
 Deniliquin Community Health
 Department of Social Security - Coffs Harbour
 Dickson Day Centre - ACT (Dickson Seniors Network)
 Dubbo Community Health Centre
 Eastlakes Community Health Centre - Windale
 Extended Care - Orange
 Figtree School - Wollongong
 Fred McKay Day Care Centre - Alice Springs
 Finley Community Health
 Forbes District Hospital
 Glen Innes Community Health Centre
 Goulburn Base Hospital
 Griffith Base Hospital
 Gunnedah District Hospital
 Hastings District Hospital
 Hastings District Health Services
 Hevington House Special Day Care
 Hunter Rehabilitation Service - New Lambton
 "Homeleigh" - Wollongong C'wealth Rehab. Service
 Worksite O/T - The Junction
 Health Centre - New Town (TAS)
 Hobart Repat & General Hospital - Battery Point (TAS)
 Interact Injury Management - Orange
 niawarra Occupational Health - Wollongong
 Elawarra Child Development Centre - North Wollongong
 Illawarra Regional Hospital (Port Kembla Campus)
 Illawarra Regional Hospital (WoUongong Campus)
 Individual Development Centre - Balgownie
 IRS Total Injury Management - Orange
 IRS - Hamilton
 IRS - Wollongong
 IRS - Perth
 James Fletcher Hospital - Newcastle
 John Hunter, Hospital
 Joint Coal Board - Warners Bay, Singleton
 Katoomba Area Health Centre
 Kempsey District Hospital
 Kiama District Hospital
 Kiama Health Support Service
 Kirra Centre - ACT
 Kurpinta Living Skills Centre - Newcastle
 Kurri Kurri
 Launceston General Hospital
 Lawrence Hargrave Hospital - Thirroul
 Lincoln School of Health Services - Carlton - Victoria
 Lismore Base Hospital
 Lismore Living Skills Centre
 Lithgow District Hospital
 Lourdes - Dubbo
 Macksville Hospital
 Maitland Hospital
 Mandala Clinic - Central Coast
 Maneen House Living Skills Centre - Mangerton
 Mater Misericordiae Hospital - Sth Brisbane
 Mental Health Team - Albury
 Mercy Care - Young
 Mercy Hospital - Albury
 Metropolitan Reception Prison - Coburg
 Mobile Community Management Team
 Molong Community Health Centre
 Moree District Hospital
 Moruya Community Health
 Mullumbimby Primary Care
 Muswellbrook District
 Nelson Bay Community Health
 Nepean School Age Therapy Team - Penrith
 North Gosford Private Hospital
 Newcastle East Community Health Service - Newcastle
 Noah's Ark - Nowra
 Northern Territory Student Services - Darwin
 Nowra Community Hospital
 Orana Community Health Centre, Dubbo
 Orange Base Hospital
 Pambula Community Health
 Parkes Hospital
 "Peacock" - North Hobart

Port Macquarie
 Psychiatric Rehabilitation Service - ACT
 QEII Jubilee Hospital - Sunnybank
 Queanbeyan District Hospital
 Rankin Park
 Riverland Community Health Services - Berri
 Royal Adelaide, South Australia
 Royal Children's Hospital - Parkville
 Royal Hobart Hospital
 Royal Park Psychiatric Hospital - Parkville
 Royal Newcastle Hospital
 Shellharbour Hospital - MtWarrigal
 Shoalhaven District Memorial Hospital - Nowra
 Soldiers Memorial Hospital - Canowindra
 South Coast Workers' Medical Centre - Wollongong
 Specialist Adult Health Services - Casuarina
 Stanbridge, White & Associates - Wagga Wagga
 St John of God Hospital - Goulburn
 St Vincents Hospital - Lismore
 Stuart Centre - Valentine
 Tamworth Base Hospital
 Tangara School for Special Purposes - Mittagong
 Territory Health Services - Casuarina
 The Campbell Hospital
 Toowoomba General Hospital - Queensland
 Toowoomba Intellectual Disability Services
 Townsville General Hospital
 Tweed Heads District Hospital & Health Services
 Tuggeranong Seniors Centre
 Tumut Community Health
 University of Queensland - St. Lucia
 Wagga Wagga Base Hospital
 War Memorial Hospital - Cudal
 Wellington District Hospital
 Wingham Assessment & Rehabilitation
 Woden Valley Hospital
 Wodonga District Hospital
 Wolston Park Hospital - Walcol
 Woodstock Centre - Lavington

Overseas

Astley Ainslie Hospital Edinburgh - Scotland
 Department of Rehabilitation - National University Hospital
 - Singapore
 Duchess of Kent Children's Hospital- Hong Kong
 Leicester Royal Infirmary - England
 Margaret Drive Special School - Singapore
 Michigan Hand Rehabilitation Centre - U.S.A.
 Nether Edge Hospital - Sheffield - England
 Pinderfields General Hospital - England
 St Joseph Hospital - U.S.A.
 Scottish Hospital
 Scottish Hospital, Aged Care Centre
 The Arthritis Society - Vancouver
 Woodbridge Hospital - Singapore

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
 Fairfield District
 Greenwich
 Hornsby Kuring-Gai Hospital & Area Health Service
 Lady Davidson, North Turramurra
 Liverpool
 Lottie Stewart
 Manly Hospital & Community Health Service
 Mt Druitt
 Mona Vale
 New Childrens Hospital
 Prince Henry, Little Bay
 Prince of Wales, Randwick
 Rachel Forster, Redfern
 Royal Hospital for Women, Paddington
 Royal North Shore, St Leonards
 Royal Prince Alfred, Camperdown
 Ryde
 St George, Kogarah
 St Josephs, Auburn
 St Vincent's, Darlinghurst
 Sutherland Hospital, Caringbah
 Sydney
 Sydney Childrens Hospital
 War Memorial, Waverley
 Westmead

Non Sydney

Metropolitan/Country/Interstate

Albury Base
 Armidale and New England
 Bathurst Base
 Bulli District
 Calvary Hospital, Canberra
 Coffs Harbour and District
 Coledale District
 Condobolin District
 Cooma Base
 Dubbo Base
 Forbes
 Gold Coast Hospital
 Gosford District
 Goulburn Base
 Griffith Base
 "Homeleigh" Wollongong Community Rehabilitation
 Centre
 Illawarra Regional Hospital (Wollongong and Port Kembla
 Campuses)

John Hunter
Kempsey
Lismore
Lithgow
Maitland
Manning Base, Taree
Mater Misericordiae, Newcastle
Mercy Care Centre, Young
Mudgee District
Nepean
Orange Base
Parkes
Port Macquarie & Hastings District
Repatriation General, Hobart
Royal Newcastle
Shellharbour
Shoalhaven District Memorial, Nowra
St Vincent's, Lismore
Tamworth Base
Tweed Heads
Wagga Wagga Base
Woden Valley, Canberra
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
RAAF Richmond

State Government Department and Agencies

Department of Community Services
- Bexley
- Illawarra

Community Agencies and Private Organisations

Anglican Retirement Villages (MOWLL)
Cumberland Health & Research Centre
Hawkesbury District Health Service
Merrylands Community Health Centre
Multiple Sclerosis Society of NSW (Lidcombe)
Royal Institute for Deaf & Blind Children - The Alice
Betteridge School
Spastic Centre (Ryde, Allambie Heights)

Private Practitioners

Albert Alonso
Ian Austin
David Bick
Peter Buffen and Denny Shearwood
Sue Cockcroft & Melinda Johnson
Merryn Cooper
Maria De Sousa & Heather Marr-Wyllie
Gary Eastburn
Sally Ewin

Joel Werman
Judith Furey
Beverley Giovanelli & Kenneth Raupach
Julie Godfrey
Lesley Goff & Larry Wicks
Suzanne Jones & Ashton Lucas
Peter Knapman
Sue Lovelock
Gae Milazzo
Amanda Mussett & Tracey Powell
Louise O'Connor & Roger Fitzgerald
Grant Pleffer
Neil Potter
Jeff Pross
Rosemary Prosser
Phillip Richardson
John Roberts
Keiran Rooney
Greg Sheather
Elizabeth Steet & Mark Bevan
Colin Thompson
Lisa Tomlinson-Alonso
Beverley Trevithick
Margaret Turner
Graham Vankan & Jenny Aiken
Gordon Waddington
Hilary Waldman
Sandra Walker
Stuart Waters
Carolyn Young
David Young

17 Facilities and Services

Bookshop

The University Co-operative Bookshop operates a branch on the Cumberland campus. Situated at the ground level of the Student Guild, the Bookshop holds all prescribed texts and various stationery and software items.

Childcare

An on-campus long day care centre for children aged 0-3 years is expected to be available during 1997.

Counselling Service

A counselling service is provided through Student Welfare Services to assist students who wish to discuss concerns of a personal, academic or vocational nature. The service is free and confidential. The Counsellor, a clinical psychologist, is located in A005 in A Block. Students who wish to make an appointment with the Counsellor can telephone 9 3519473, or book an appointment directly by writing in a time slot on the door. Students can also arrange to see a counsellor at the Counselling Service on the Camperdown campus by calling 9 3512228. Students on Cumberland campus can also book an appointment directly by writing in a time slot on the door. Appointments outside normal hours are available for students on clinical placements or who are studying part-time.

Credit Union Facilities

The Universities Credit Union has an agency on campus. The agency is open on Thursdays, between 11.00 am and 2.00 pm. The agency welcomes new accounts.

Cumberland Student Guild

At enrolment all students pay for membership to the Student Guild, a student representative body. As Guild members, Cumberland students can access either SUPRA (postgraduates) or SRC (undergraduates) on Camperdown Campus and claim associate membership of the relevant sports association, either SUWSA (women) or MSU (men).

Guild Facilities

The following are available on campus:

- F Block: Guild Cafeteria
- S and T Blocks: food and drink vending machines
- U Block (Guild Building): Guild Coffee Shop, Guild Bar, Guild Shop (agent for Australia Post), Guild MacLab, and subsidised photocopier centre.

Guild Office

Advice on Guild programs and facilities is available at the Office, open daily from 8.30am to mid-evening. Enquiries can be made on 9 3519970, or fax 9 3519971. The Guild is the authorised uniform supplier for the Schools of Occupational Therapy, Orthoptics and Physiotherapy, and the Faculty of Nursing (Cumberland).

Student Representation

The Guild supports student representatives on various Faculty committees, and also individuals and student groups on academic rights issues. The Guild's Management Committee represents the interests of all students on campus. Any student can nominate for election as a student representative.

Student Resources and Support Services

These include:

- The Resource Officer, (who is also a campus Discrimination Adviser), located in the Guild Office, who helps with AUSTUDY/ABSTUDY and HECS issues, Appeals and Show Cause processes, and welfare matters.
- The Activities/Sports and Recreation Officer, who manages the new Sports Centre, organises a wide range of lunchtime recreational events and also provides support for the Guild affiliated clubs and societies. Those interested in forming a special interest group should obtain the *Clubs and Societies Manual* from the Guild Office.
- Subsidies toward costs of students attending conferences directly related to courses of study and those selected as sports representatives at State or National level.
- Conduct of research projects related to academic issues affecting students.
- Publications such as the fortnightly student newspaper, *Corpus Callosum*, the *Clubs and Societies Manual* and the *Student Guild Diary*.

Further details of Guild facilities and services are in the *Cumberland Student Guild Diary* issued to students in Orientation Week and also available at the Guild Office.

English Language Tuition

The tutors who work in the Language and Learning Unit of Student Welfare Services provide supplementary and concurrent tuition in English for Academic Purposes and English for Clinical Placements for any student enrolled on Cumberland campus. This service is in the form of weekly lunchtime workshops and one-to-one tutorials and is particularly valuable for both international and local students whose first language is not English. Preparatory courses are offered to students who have accepted a place in the Faculty in January-February prior to the start of the academic year. The Language and Learning Unit tutors are also trained in cross-cultural communication. This enables them to assist native speakers of English (staff or students) in communicating clearly with those who speak English as a second language. The above services are only for enrolled students. Applicants who require preparatory courses to raise their English language proficiency to a level high enough to enter the University will need to study elsewhere before applying. Enquiries are welcome. Telephone the Language and Learning Unit directly on 9 351 9631 or 9 3519319, or contact telephone 9 3519638 or fax 9 3519635.

Equal Employment Opportunity and Affirmative Action

The University has an EEO Unit and an EEO Management Plan which covers all University staff and an 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 campus has its own Equity Advisory Committee which provides a forum for discussion and promotion of these policies.

Faculty Discrimination Advisers

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 staff and students, 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 or Faculty Discrimination Adviser. You may also direct your concerns to senior staff within your School or Department.

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 Information and Scholarships Officer on 9 351 9154.

The Faculty's Alumni include all its graduates, ex-staff, ex-students and community friends. Alumni are kept in touch through the Faculty Web site.

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 Faculty Library (free for five years and then enjoy discount rates)
- enjoy a 10% discount on courses offered by the Centre for Continuing Professional Education and Conference Unit on Cumberland campus
- have the use of tennis courts and oval
- make their voice heard on issues affecting the Faculty
- become eligible for a Graduates Association Grant for postgraduate study in the Faculty of Health Sciences.

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.

Health Sciences 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 82,000 volumes and 1,014 serial titles is particularly oriented towards the health and social sciences. The library aims to support 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 Health Sciences 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, study room for students with disabilities, word processing room, Internet training room, study areas and staff work areas.

Level 2 contains the main collection of resources. Level 2 also contains study areas, audiovisual playing facilities, more photocopiers, and several group study rooms.

Access to the Library collection is via a user-friendly OP AC (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. Regular classes are conducted in use of CDROM and Internet facilities. Library staff offer literature searching for a fee. Interlibrary loan services are available. Distance education students may be eligible for some special benefits which are outlined in a separate booklet.

Information Desk (Phone: 93519437)

Enquiries about any aspect of the Library's services are most welcome.

Circulation Desk (Phone: 9351 9423)

Renewals of loans may be made in person or by telephone during library hours. (Overdue items may not be renewed.)

Library hours*

During Semester

Mon to Thurs	8.00 am	-	10.00 pm
Fri	8.00 am	-	4.00 pm
Sat and Sun	10.00 am	-	4.00 pm

Inter-Semester

Mon, Tues, Thurs	9.00 am	-	4.30 pm
Wed	9.00 am	-	7.00 pm
Fri	9.00 am	-	4.00 pm
Sat and Sun	Closed		

Loans

<i>Students</i>	Undergraduate	1 week, 1 renewal
	Postgraduate	3 weeks, 2 renewals
<i>Staff</i>		3 weeks, 2 renewals
<i>Other patrons</i>	(conditions apply)	1 week, 1 renewal

These hours may be altered.

For more information about the Library collection and services, including remote access instructions to the OP AC see the home page set up at <http://www.cchs.su.edu.au/Admin/lib/library.html>

International Student Advisory Service

Advisory services for international students and visiting scholars are provided by Student Welfare Services in D' Block. They include the five-week Study Preparation Program held every January-February for newly enrolled students, orientation to living and studying in Australia, arrival and accommodation assistance, family support, personal, intercultural and academic guidance, tutorial support, English language tuition, arrangements for social events and excursions, and returning home services. The International Student Adviser can be contacted on 9 351 9634 or fax 9 351 9635.

Language and Learning Unit (LLU)

The Language and Learning Unit is located in D115 and is part of Student Welfare Services (Cumberland). The tutors in the Unit provide academic and communication skills tuition for all students, as well as English language tuition for those who require it. The staff have postgraduate qualifications in education, applied linguistics, foreign languages, cross-cultural communication, and in teaching English as a second language. One-to-one tutorials, regular workshops and seminars on academic, clinical, and professional communication skills are available during semester and in vacations. Schedules are announced from time to time on noticeboards around the campus. Students and lecturers are invited to contact the Unit and consult with the tutors on any matter related to the above areas and services. Telephone 9 351 9631 or 9 351 9319 (with an answering service) or call Student Welfare Services on 9 351 9638, or send a fax to 9 351 9635.

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 University 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 and 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 it is still unclaimed after a three month period, the University 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. Those requiring access to disabled parking spaces should contact Student Welfare Services in the first instance.

Sporting Facilities (Multi-purpose courts and oval)

Sporting facilities at the Cumberland campus comprise of 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, on 9 351 9678.

Block bookings for a special purpose, tournament, or by an external organisation, should be submitted in writing to the Property Services Division.

Peer Tutoring Service

A register of senior students who have volunteered their services as subject tutors is available in Student Welfare Services in D Block. Students wishing to become tutors, or to obtain tutoring in subjects they are having difficulties with, should contact the office to check the register or seek advice. Payment is generally negotiable between parties involved. For information telephone 9 351 9638.

Services for Students with Disabilities

Students with disabilities or special needs are assisted by Student Welfare Services in D Block. Printed information for students with disabilities is available at the Student Enquiry Counter in A Block and in D122. The Faculty has numerous resources to assist students, and a professional interest and commitment to provide high quality services. Consultations are confidential.

Students with disabilities are strongly advised to inform the University of their needs as early as possible each academic year. A disability might be apparent or invisible, and might range from very slight to severe. It could be a physical, sensory, psychological, medical, or learning disability, or a combination of these. Students can experience difficulty meeting their educational commitments because of the educational disadvantage created by a disability. A variety of support services are available including notetakers, voluntary readers, special examination arrangements, library facilities and equipment for loan. Use of such assistance can minimise the disadvantage that might otherwise occur.

In the first instance, students with a disability are invited to contact Student Welfare Services on 9 351 9638 or fax 9 3519635 for a consultation on what special support services they need, for information on what assistance is available, and for guidance on University procedures. Students can also contact the Welfare and Disabilities Service on the University's Camperdown Campus on 9 351 4558 or fax 9 5521449 or TTY 9 3513412. Students will be referred to the Counselling Service if such assistance is indicated, or they may wish to have a discussion initially with a counsellor by telephoning directly on 9 351 9473.

Student Accommodation

The Student Guild produces an annual Accommodation Guide and Directory, allocates rented rooms to students at Auburn Hospital Nurses' Home, and in first semester, maintains a housing register in the Guild Office. During the year, accommodation options are advertised on Guild Building noticeboards.

Yannadah

The student residence on the Cumberland campus, Lidcombe, provides accommodation for up to thirty-nine students from outside the greater metropolitan area of Sydney. Application forms are included with course offers. Places are determined by ballot. For information contact the Residential Supervisor on 9 351 9405.

Student Loans

The University's loan scheme provides supplementary assistance, not full support, to students who demonstrate financial hardship. These interest-free loans may be for compulsory student fees at the beginning of semester (forms for these are available at Student Welfare Services in D Block), long term loans for essential living and study expenses, or a cash loan for an emergency that has arisen that day. All enquiries should be directed to Student Welfare Services in D Block, telephone 9 3519638 for fax 9 3519635.

Student Welfare Services Division (SWS)

Student Welfare Services, located in D Block, is concerned with the general welfare of students who may seek advice and assistance on any issue related to or impacting on their academic study, clinical placements, or life on campus. It mirrors the services provided by Student Services on the Camperdown Campus with the exception of accommodation and casual work which are managed by the Student Guild. Student Welfare Services is dedicated to providing a high level of academic and personal support services through the activities of advising, facilitating, teaching, counselling and mediating in order to assist students to succeed in their studies, and to benefit from and enjoy the University, campus and clinical placement experience. Lecturers are invited to contact Student Welfare Services for further information and to refer students for assistance. Specialised services within Student Welfare Services are the Language and Learning Unit, English language tuition, international student advisory service, peer tutoring service, services for students with disabilities, student loans, and the counselling service (see details under separate headings). Contact numbers are telephone 9 3519638 and fax 9 3519635. Office hours are 9.00-5.00 during semester and vacations.

Travel Concessions

Details of travel concessions are available from the Student Enquiry Counter, Administration Building.

18 Senate Resolutions

As at 1 November, 1996

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 (MAppSc)
- (d) Master of Health Science (MHLthSc)
- (e) Master of Exercise and Sport Sciences (MEx&SpSc)
- (f) Master of Community Health (MComHlth)
- (g) Master of Rehabilitation Counselling (MRehabCIng)
- (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 (MChldAdoHlth)
- (l) Master of Gerontology (MGeront)
- (m) Master of Health Science (MHLthSc(Mment))
- (n) Doctor of Philosophy (PhD).

2. The diplomas and certificates in the Faculty of Health Sciences shall be:

- (a) Diploma of Health Science (DipHlthSc)
- (b) Graduate Diploma of Applied Science (GradDipAppSc)
- (c) Graduate Diploma of Health Science (GradDipHlthSc)
- (d) Graduate Diploma in Exercise and Sport Sciences (GradDipEx&SpSc)
- (e) Graduate Diploma in Community Health (GradDipComHlth)
- (f) Graduate Diploma in Rehabilitation Counselling (GradDipRehabCIng)
- (g) Graduate Diploma in Health Science Education (GradDipHlthScEd)
- (h) Graduate Diploma of Behavioural Health Science (GradDipBehHlthSc)
- (i) Graduate Diploma of Child and Adolescent Health (GradDipChld AdoHlth)
- (j) Graduate Diploma in Gerontology (GradDipGeront)
- (k) Graduate Diploma in Vision Impairment (GradDipVisImp)
- (l) Graduate Certificate in Health Science Education (GradCertHlthScEd)
- (m) Graduate Certificate of Applied Science (GradCertAppSc)
- (n) Graduate Certificate of Behavioural Health Science (GradCertBehHlthSc)
- (o) Graduate Certificate of Child and Adolescent Health (GradCertChld AdoHlth)

- (p) Graduate Certificate in Casemix (GradCertCasem)
- (q) Graduate Certificate in Clinical Data Management (GradCertCDM)
- (r) Graduate Certificate in Vision Impairment (GradCertVisImp)

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) Exercise and Sport Science
- (c) Health Information Management
- (d) Leisure and Health
- (e) Medical Radiation Technology
- (f) Occupational Therapy
- (g) Orthoptics
- (h) Physiotherapy
- (i) 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) Exercise and Sport Science
- (b) Health Information Management
- (c) Medical Radiation Technology
- (d) Occupational Therapy
- (e) Orthoptics
- (f) Physiotherapy
- (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 maybe 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 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 - Leisure and Health
(previously Diversional Therapy)**

A.1 - Pass course

Year 1

Introduction to Sociology
Psychology!
Sociology of Community and Family
Biological Sciences I
Professional Practice I
Management and Computer Skills
Theories of Leisure and Recreation
Creative Arts in Recreation: Visual Arts
Communication Theory and Practice
Leadership and Group Dynamics
Creative Arts in Recreation: Expressive Arts
Introduction to Teaching and Learning
Introduction to People with Disabilities
Issues which Influence Client Care
Field Experience I

Year 2

Clients, Work and Organisations
Psychology of Disability I
Psychology of Disability II
Research Methods I
Biological Sciences II
Professional Practice II
Contemporary Issues in Health Care
Social Psychology of Leisure and Recreation
Leisure Education
Advanced Theory and Methods of Instruction
Program Design, Implementation and Evaluation
Diversional Therapy and the Ageing Population
People with Disabilities I
Field Experience II

Year 3

Research Methods II
Sociology of the Aged and Ageing
Psychology II
Biological Sciences III
Integrative Paper
Recreation for Specific Groups
Leisure Throughout the Life Cycle
Counselling Skills
People with Disabilities II
Field Experience III

Table B - Exercise and Sport Science

B.1 - Pass Course

Year 1

Mechanisms of Movement
Body Structure, Homeostasis and Movement
Molecules, Food and Energy
Muscle Mechanics
Mechanisms of Injury
Psychosocial Aspects of Recreation and Sport
Selected Studies: (any six from the following)
Fitness Appraisal
Sports First Aid
Sport, Exercise and the Law
Health Centre Management
Sports Coaching
Resistance Training
Exercise Programming
Video Performance Analysis
Fundamental Computer Skills
Data Management and Presentation

Year 2

Quantitative Biomechanics
Exercise Physiology I
Biochemistry of Exercise
Kinesiology and Applied Anatomy
Motor Control and Learning
Growth, Development and Ageing
Behaviour Modification and Exercise Adherence
Elective

Year 3

Advanced Topics in Biomechanics
 Exercise Physiology II
 Exercise and Rehabilitation
 Research Methods
 Exercise Testing and Prescription
 Elective

B.2 - Honours Course**Year 1 - As for Pass Course****Year 2 - As for Pass Course****Year 3 - As for Pass Course****Year 4**

Honours Thesis

* To fulfil the requirements of the program, students are required to complete a total of three of the courses indicated by an asterisk.

Table C - Health Information Management**C.1 - Pass Course****Year 1**

Health Information Systems I
 Health Information Systems II
 Australian Health Care Systems
 Medico-Legal Principles I
 Clinical Classification I
 Medical Terminology I
 Medical Terminology II
 Basic Human Biology I
 Communication
 Introduction to Psychology
 Introduction to Sociology
 Professional Experience I
 Microcomputer Applications

Year 2

Programming Logic and Design
 Systems Analysis and Design
 Clinical Classification HA
 Clinical Classification IIB
 Basic Human Biology II
 Social Psychology
 Health, Society & Social Change
 Research Methods I: Design
 Research Methods II: Data Analysis
 Management Principles I
 Casemix Measurement Systems
 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 (1997 only)
 Psychology of Work and Management

Sociology of Work and Organisations
 Research Project
 Management Principles III
 Human Resource Management
 Medical Science II
 Medical Science III
 Epidemiology
 Management Principles II
 Professional Experience III
 Clinical Classification III
 Health Care Evaluation

C.2 - Honours Course**Year 1 - As for Pass Course****Year 2 - As for Pass Course****Year 3**

Intermediate Statistics

Year 4

Research Elective
 Research Seminar
 Research Thesis
 Research Proposal

Table D - Medical Radiation Technology**D.1 - Pass Course****Year 1**

Behavioural Science LA - Introduction to Computing
 Behavioural Science IB - Introduction to Psychology
 Radiation Physics
 Anatomy of Body Systems
 Introductory Human Biology
 Introduction to Medical Radiations
 Clinical Education I
 PLUS
 Introductory Radiography
 OR
 Introductory Nuclear Medicine
 OR
 Introductory Radiation Therapy

Year 2

Behavioural Science II
 Pathophysiology
 Radiation Biology and Protection
 Sectional Anatomy
 PLUS
 Imaging I
 Radiography I
 Radiographic Pathology I
 Clinical Education IIA
 OR
 Nuclear Medicine I
 Instrumentation I
 Radiopharmacy
 Clinical Education IIB
 OR
 Radiation Therapy I
 Tumor Pathology
 Radiotherapy Physics I
 Clinical Education IIC

Year 3

Behavioural Science III
Image Processing
Professional Studies
Sonography
Imaging II
Radiography II
Radiographic Pathology II
Contrast Media
Clinical Education IIIA
OR
Sonography
Nuclear Medicine II
Instrumentation II
Clinical Education MB
OR
Radiation Therapy II
Radiotherapy Physics II
Principles of Oncology
Clinical Education MC
Radiation Therapy Project

D.2 - Honours Course

Years 1 and 2 -As for Pass Course

Year 3 - As for Pass Course

PLUS
Behavioural Science III (Honours)
Research in Medical Radiations

Year 4

Honours Workshop
Elective
Research Project
Research in Medical Radiations II
Research Methods and Statistics

D.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
PLUS
Advances in Radiography
OR
Sectional Anatomy
OR
Sonography;

Table E - Occupational Therapy

E.1 - Pass Course (4 year full-time)

Year 1

Human Occupations IA
Human Occupations IB
Components of Occupational Performance IA
Components of Occupational Performance IB
Occupational Therapy Theory and Process I
Occupational Role Development I
Fieldwork Education I
Introductory Psychology
Cognitive Functioning

Management of Behaviour
Introductory Human Biology
Musculoskeletal Anatomy
Introductory Neurobiology
Neurobiology I

Year 2

Human Occupations HA
Human Occupations IIB
Components of Occupational Performance HA
Components of Occupational Performance IIB
Occupational Therapy Theory and Process HA
Occupational Therapy Theory and Process IIB
Occupational Role Development II
Fieldwork Education II
Australian Society
Sociology of Health I
Research Methods and Statistics
Neurobiology II
Body Systems I
Biomechanics for Occupational Therapy
Research Methods and Design

Year3

Human Occupations III
Components of Occupational Performance in
Occupational Therapy Theory and Process EI
Fieldwork Education IIIA
Fieldwork Education MB
Sociology of Health II
Health Psychology
Body Systems II

Year4

Human Occupations IV
Components of Occupational Performance IV
Occupational Therapy Theory and Process IVA
Occupational Therapy Theory and Process IVB
Evaluation of Occupational Therapy Programs
Fieldwork Education IV
Psychology of Adulthood and Ageing
Social Psychology
Sociology Elective
Applied Physiology

E.2 - 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 M
Occupational Therapy Theory and Process III
Fieldwork Education MA
Fieldwork Education MB
Sociology of Health II
Health Psychology
Body Systems II
Honours Research Seminar I
Honours Proposal Development

Year 4

Human Occupations IV (Honours)
Fieldwork Education IV
Psychology of Adulthood and Ageing
Social Psychology
Sociology Elective
Applied Physiology
Honours Research Seminar II
Individual Research Consultation
Honours Thesis
Research Elective

Table F - Orthoptics**F.1 - 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 I
Neurobiology I
Optics II
Behavioural Science IA Introduction to Sociology
Clinical Studies I
Behavioural Science IB Introduction to Psychology

Year 2

Instrumentation II
Concomitant Strabismus A
Concomitant Strabismus B
Disorders of the Visual System IIA
Disorders of the Visual System IIB
Introductory Pathology
Ocular Biology
Visual Neurobiology
Behavioural Science II
Research Methods and Statistics
Research Methods and Designs
Clinical Studies II

Year 3

Ocular Motility Disorders I
Disorders of the Visual System III
Rehabilitation Studies I
Instrumentation III
Bio-electrical Signals and Computing
Embryology and Neuro Plasticity
Elective Study
Clinical Studies III
Clinical Project

Year 4

Visual Science
Ocular Motility Disorders II
Disorders of the Visual System IV
Rehabilitation Studies II
Professional Studies
Clinical Studies IV
Developing a Research Project

AND
Research Project
Professional Elective

F.2 - 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
Bio-electrical Signals and Computing
Embryology and Neuro Plasticity
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
Clinical Studies IV
Research Thesis

Table G - Physiotherapy**G.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 I: Design
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 and 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 II
Social Theory and Health
Body Systems III
Applied Physiology
Research Methods II: Data Analysis
Research and Investigation I

Year 4

Physiotherapy in Neurology III
Cardiopulmonary Physiotherapy III
Musculoskeletal Physiotherapy IV
Topics in Physiotherapy IV
Research & Investigation II
Research & Investigation III
Clinical Education IHA
Clinical Education IIIB
Clinical Education IIIC
Health, Medicine and Society
Health Psychology

G.2 - Honours Course (commencing 1994)

Years 1 and 2 -As for Pass course

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 II: Data Analysis

Year 4

Physiotherapy in Neurology III
Cardiopulmonary Physiotherapy III
Musculoskeletal Physiotherapy IV
Topics in Physiotherapy IV
Clinical Education IIIA
Clinical Education IIIB
Clinical Education IIIC
Health, Medicine and Society
Health Psychology
Honours Research Seminar
Honours Thesis

Table H - Speech Pathology

H.1 - 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

H.2 - Honours Course

Year 1 - As for Pass Course

Year 2 - As for Pass Course

Year 3

Honours Research Methods Individual Studies I
Honours Research Seminar I

Year 4

Honours Research Methods Individual Studies II
Honours Research Seminar II
Honours Thesis

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 *
- * Singapore Conversion Courses.

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

A.1 - Pass Course

Year 1

Core Stream

Australian Society and Health
Introduction to Health Research and Ethics
Health and Human Behaviour I
Biological Sciences I

Rehabilitation Counselling Stream

Rehabilitation Theory I
Rehabilitation Counselling I
Vocational Rehabilitation I
Professional Practice I
Disability Studies I

Year 2

Core Stream

Health Promotion
Epidemiology
Health and Human Behaviour II
Biological Sciences II

Rehabilitation Counselling Stream

Rehabilitation Theory II
Rehabilitation Counselling II
Vocational Rehabilitation II
Professional Practice II
Disability Studies II

Year 3

Core Stream

Health Planning, Policy and Evaluation
Contemporary Issues in Health, Law and Medicine
Social Research
Biological Sciences III

Rehabilitation Counselling Stream

Vocational Rehabilitation IE
Disability Studies III
Special Project
Rehabilitation Counselling III
Professional Practice IE

A.2 - Honours Course

Year 1 and Year 2 - As for Pass Course

Year 3 - As for Pass Course

Research Elective

Year 4

Honours Workshop
Thesis
Research Elective

Table B - Aboriginal Health and Community Development

B.1 - Pass Course (3 year full-time)

Year 1

Australian Society and Health
Introduction to Health Research and Ethics
Health and Human Behaviour I
Biological Sciences I
Perspectives in Indigenous Health I
Community Development I
Counselling I
Primary Health Care I
Field Experience I

Year 2

Indigenous Health Promotion
Epidemiology
Health and Human Behaviour II
Biological Sciences II
Perspectives in Indigenous Health II
Community Development II
Counselling II
Primary Health Care II
Field Experience II

Year 3

Health Planning Policy and Evaluation
Contemporary Issues in Health, Law and Medicine
Social Research
Biological Sciences III
Perspectives in Indigenous Health III
Community Development III
Counselling III
Primary Health Care III
Field Experience III

B.2 - Honours Course (4 year full-time)

Year 1 - As for Pass Course

Year 2 - As for Pass Course

Year 3

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
Perspectives in Indigenous Health I
Community Development I
Primary Health Care I
Field Experience I

Year 2

Indigenous Health Promotion
Introduction to Health Research and Ethics

Health and Human Behaviour II
Biological Sciences II
Perspectives in Indigenous Health II
Counselling I
Field Experience II

Year 3

Epidemiology
Social Research
Perspectives in Indigenous Health III
Community Development II
Counselling II
Primary Health Care II

Year 4

Health Planning Policy and Evaluation
Contemporary Issues in Health, Law and Medicine
Biological Sciences III
Community Development III
Counselling III
Primary Health Care 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

Research Elective

Year 5

Honours Workshop
Thesis
Research Elective

Table C - Medical Radiation Technology*, Nursing*, Occupational Therapy*, Physiotherapy* (* 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 - Medical Radiation Technology

Common Subjects

PLUS
Department Designs and Safety Issues
Computer Communications in Medical Radiation Technology
Management of Equipment Selection

C.3 - Nursing

Common Subjects

PLUS
Health Assessment
Management in Nursing
Advanced Clinical Studies

C.4 - Occupational Therapy

Common Subjects

PLUS
Components of Occupational Performance
Occupational Therapy Theory and Process
Evaluation of Occupational Therapy Programs

C.5 - Physiotherapy

Common Subjects

PLUS
Evaluation in Physiotherapy
Topics in Physiotherapy Management
Advanced Physiotherapy Studies

Table D - Medical Radiation Technology*, Occupational Therapy*, Physiotherapy* (* On-Shore Singapore Conversion Course)

D.1 - Medical Radiation Technology

Year1

Behavioural Science III
Radiation Biology and Protection
Image Processing
Field Project
PLUS
Sonography
Imaging II
Radiography II
Radiographic Pathology II
Contrast Media
OR
Radiation Therapy II
Radiotherapy Physics II
Principles of Oncology
Radiation Therapy Project

D.2 - Occupational Therapy (1 year full-time)

Year1

Research Methods and Design
Research Methods and Statistics
Sociology Elective
Components of Occupational Performance III
(Cognitive)
Components of Occupational Performance IV
Occupational Therapy Theory and Process IV
Evaluation of Occupational Therapy Program
Elective Subject
Fieldwork Education

D.3 - Physiotherapy - Pass Course -1 year

Year1

Health Medicine and Society
Health Psychology
Physiotherapy in Neurology III
Cardiopulmonary Physiotherapy III
Musculoskeletal Physiotherapy IV
Topics in Physiotherapy IV
Research and Investigation II
Research and Investigation III
Clinical Education IHB
Clinical Education IIC

Master Degrees

Subject areas

1. (1) The degree of Master of Applied Science may be taken in the following subject areas:

- (i) Behavioural Health Science
- (ii) Communication Sciences & Disorders
- (iii) Exercise and Sport Science
- (iv) Health Information Management
- (v) Human Biomedical Sciences
- (vi) Manipulative Physiotherapy
- (vii) Medical Radiation Technology
- (viii) Occupational Therapy
- (ix) Orthoptics
- (x) Physiotherapy
- (xi) Sports Physiotherapy.

(2) The degree of Master of Health Science may

be taken in the following subject areas:

- (i) Community Health
- (ii) Education
- (iii) Gerontology
- (iv) Rehabilitation Counselling.

(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 candidature for a degree of Master within the Faculty an applicant:

- (a) who is a graduate of the University of Sydney and 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, or who 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;
- (b) who, in addition, meets any other requirements for admission to a particular program that has been prescribed by Faculty.

(2) Notwithstanding subsection (1), the Academic Board' may admit a person to candidature accordance with the provisions of Chapter 10 of the By-laws.

Availability

3. Admission to candidature 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 candidature 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 candidature.

(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 with the permission of Faculty or 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 second 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 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;

(d) a part-time candidate proceeding by coursework shall complete the requirements not earlier than the end of the fourth 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 shall 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 the full-time candidature or the third semester of part-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 material 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 the 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 Health Science

1. (1) 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.
4. (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 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.

Diploma of Health Science

A. Aboriginal Health and Community Development

Year 3 (last offered in 1997)

Elective Studies
Elective Study Independent Project

Year 1 (to be offered in 1997)

Perspectives in Indigenous Health I
Communication Skills I
Primary Health Care I
Community Development I
Counselling I'

Elective Studies IA
Elective Studies IB
Field Education I

Year 2

Aboriginal Studies II
Communication Skills II
Community Care II
Community Development II
Counselling II
Drugs and Alcohol II
Emergency Care II
Management Skills II

Graduate Diplomas and Graduate Certificates

Subject areas

1. The Graduate Diploma of Applied Science may be taken in the following subject areas:
 - (i) Health Information Management
 - (ii) Manipulative Physiotherapy
 - (iii) Medical Ultrasonography
 - (iv) Physiotherapy
 - (v) 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 Science
 - (v) Gerontology
 - (vi) Health Science Education
 - (vii) Rehabilitation Counselling
 - (viii) Vision Impairment.
3. The Graduate Certificate of Applied Science may be taken in the following subject areas:
 - (i) Medical Ultrasonography
 - (ii) Occupational Therapy
 - (iii) Physiotherapy.
4. A Graduate Certificate may be taken in the following areas:
 - (i) Behavioural Health Science
 - (ii) Casemix
 - (iii) Child and Adolescent Health
 - (iv) Clinical Data Management
 - (v) Health Science Education
 - (vi) Vision Impairment

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 is:
 - (a) who is a graduate of the University of Sydney and 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, or who 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;
 - (b) who, in addition, meets any other requirements for admission to a particular program that has been prescribed by Faculty;

- (c) who 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 candidature for the graduate diploma or graduate certificate in accordance with the provision of Chapter 10 of the by-laws.

Availability

3. Admission to candidature 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 candidature 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 candidature.

(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 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 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 candidature 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.

Appendix 1

Elective Subject Descriptions

This appendix lists elective subjects for honours students. The electives are related to research methods. These are forty-two hour subjects and many meet for three hours per week for a semester. Not all electives are offered each semester and some are available on the basis of contract learning or as reading courses. Students who require further information about the content or administration of electives, or when they will be offered, should contact the School or

Department offering the elective. Information about when the research electives are timetabled is available either from the school or department offering the elective or on the Postgraduate Students' Notice Board near the library. The first two digits of the subject number indicate the school or department which offers the subject (see the following table).

Subjects beginning with the digits	Taught by	Office	Phone
08	School of Community Health	T409 -	9 351 9494
09	School of Health Information Management	T301	9 351 9494
10	Department of Behavioural Sciences	G101	9 351 9228
11	Department of Biomedical Sciences	S134	9 351 9455
12	School of Communication Disorders	B100	9 351 9450
14	School of Orthoptics	T321	9 351 9250
15	School of Occupational Therapy	M501	9 351 9386
16	School of Physiotherapy	O100	9 351 9630
18	School of Medical Radiation Technology	M201	9 351 9640
22	School of Exercise and Sport Science	S140	9 351 9612

Research Electives

08501 Epidemiological Research

Semester 2 - 42 hours

Contact: Dr K Brock (Ph: 9 351 9124)

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 a causal hypothesis.

08502 Evaluation Research

Semester 1 - 42 hours

Contact: Mr Freidoon Khavarpour (Ph: 9 351 9127)

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

Semester 1 and 2 - 42 hours

Contact: Rod Rothwell (Ph: 9 351 9122)

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 nature of the scientific enterprise taking into account the social versus natural science controversy.

08560 Action Research

Semester 2 - 42 hours

Contact: Ian Hughes (Ph: 9 351 9110)

Participatory action research extends knowledge and improves social practices through processes which empower ordinary people. Action research projects proceed through cycles of planning, acting, observing and reflecting, with the participation of the people affected by the practices under consideration. Students may study through independent learning and the internet.

09471 Research Elective Independent Study

Semester 1 - 42 hours

Semester 2 - 42 hours

(for Health Information Management students only)

Contact: Prof B Reid (Ph: 9 351 9059)

This subject will function as an independent study program allowing students to pursue an area of study related to the development of knowledge and skills in a specific area in preparation for their thesis.

10503 Intermediate Statistics

Semester 1 and 2 - 42 hours

Contact: Dr P Choo (Ph: 9 351 9583)

Pre-requisite Research Methods I and II, or equivalent.

In this subject, students will extend and consolidate the research methods and statistical skills acquired in Research Methods I and II. Students will gain experience in data screening techniques, analysis of variance, multiple regression and non-parametric statistics. Students will learn how to use SPSS to conduct these statistical tests. This subject is usually offered on Mondays 5-8pm.

10504 Multivariate Statistics

Semester - 42 hours

Contact: Dr P Choo (Ph: 9 351 9583)

Pre-requisite Intermediate Statistics (10503), or equivalent

This subject examines a variety of multivariate designs and statistical procedures including factor analysis, discriminant function analysis, analysis of covariance. Other procedures will be considered according to the needs and interests of enrolling students.

10505 Qualitative Research Methods

Semester 1 or 2-42 hours

Contact: Dr G Sullivan (Ph: 9 3519588)

In this subject students will learn about qualitative research techniques such as in-depth interviewing and participant observation which focus on the investigation of people's experiences and their interpretation of events. This subject examines the types of research questions for which these methods are best suited, and provides training in data collection methods and analysis. The subject is conducted as a seminar in which students actively participate, and students work on a research project of their choice throughout the semester. This subject is usually offered on Wednesdays 4-7 pm.

10514 Survey Research Methods

Semester 2 - 42 hours

Contact: Dr G Sullivan (Ph: 9 351 9588)

This subject examines survey research design principles and considers conceptualization, sampling, questionnaire construction and pilot testing of data collection instruments. Techniques for the collection, coding and keypunching 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. This subject is usually offered on Mondays from 5-8pm.

10551 Developing a Research Project

Semester 1-42 hours

Contact: Dr G Sullivan (Ph: 9 3519588)

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. This subject is usually offered on Mondays from 5-8pm.

10552 Group and Single Case Experimental Research in Clinical Settings

Semester -42 hours

Contact: Dr Lynn Harris (Ph: 9 351 9162)

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.

22517 Biological Measurement and Analysis

Semester 2 -42 hours

Contact: Dr R Smith (Ph: 9 351 9462)

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.

15464 Single System Research Design and Evaluation Methods

Semester 2 -42 hours

Contact Ms Judy Ranka (Ph: 9 351 9207)

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.

15479 Research Design and Methods for Therapists

Semester 1 42 hours

Contact: Ms Judy Ranka (Ph: 9 351 9207)

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.

15483 Research in Occupational Therapy Clinical Practice

Semester 2 - 42 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.

Appendix 2

Code of Practice for Undergraduate Teaching, Learning and Assessment

Introduction

The University of Sydney is an institution of higher education in which the quality of teaching and learning are of the highest standard. Major Goal 1 in the University Plan 1994-2004 states: 'The University of Sydney will maintain and enhance its position as an outstanding provider of high quality undergraduate and postgraduate teaching, both in Australia and internationally'. The University acknowledges its responsibility to provide a stimulating and challenging intellectual environment for all students. The following code of practice, which is designed to complement the University Code of Practice for Supervision of Postgraduate Research Candidates, sets out the general responsibilities of the University, faculties or colleges, departments or schools, and individual teachers in creating that environment. The following guidelines must be read in conjunction with University regulations for particular degrees, the defined roles of heads of departments and schools, deans and faculties and colleges, the Policy Documents on Teaching Activities and Degree Programs and Courses adopted by the Academic Board in 1994, and the AVCC Guidelines for Good Practice in Fourth Year Honours Programs.

A RESPONSIBILITIES AT THE UNIVERSITY LEVEL

The University has the responsibility

- a. to ensure that appropriate University policies in respect of undergraduate teaching, learning and assessment are developed, kept under review and are effectively promulgated
- b. abide by the University's policies on occupational health and safety so that students study and work in a safe and healthy environment
- c. to ensure that adequate support services and hardware resources are available in such areas as learning assistance and information technology
- d. to ensure that adequate development opportunities in teaching, learning and assessment practices are available to teachers of undergraduates through the Centre for Teaching and Learning, and/or through programs developed by departments, faculties and clinical schools
- e. to ensure that clear policies exist with respect to the intellectual property rights of students and that students are aware of those rights
- f. to ensure that all students are free in all matters relevant to enrolment, assessment and membership of the University community from discrimination or harassment on the basis of race, gender, age, political or sexual preference, marital status, religion, disability or personal beliefs

- g. to uphold the AVCC Guidelines for Effective University Teaching
- h. to have students on appropriate University committees, who will be provided with the same information as all other committee members, to enhance their effectiveness
- i. to uphold information privacy principles relevant to personal student information in accordance with the University's policy on privacy and current legislation, including Freedom of Information
- j. to provide a timetabled study vacation period of at least one week before each end of semester examination period- except in those faculties where this practice is inappropriate
- k. to ensure a quality learning environment, including appropriate and properly maintained facilities.

B RESPONSIBILITIES AT THE COLLEGE OR FACULTY LEVEL

The Faculty or College has the responsibility

- a. to ensure that applicants for admission to candidature are properly qualified with respect to the minimum requirements for entry to the program concerned and with respect to the particular course of study proposed
- b. to ensure the appropriate timing of compulsory subjects and the availability of sufficient optional subjects so that a student passing all subjects at the first attempt may complete the course of study within the specified minimum time
- c. to contribute to course, academic staff and curriculum development through conducting regular evaluation processes, including student evaluations. Reports on the results of student evaluations will be made available to the students in relation to curriculum development activities
- d. where appropriate to have students on faculty or college committees, who will be provided with the same information as other committee members, to enable those students to be as effective as possible
- e. to adhere to the procedures laid down by the Academic Board for developing new programs or making major changes to existing programs
- f. regularly review assessment practices.

C RESPONSIBILITIES AT THE DEPARTMENTAL LEVEL

These responsibilities are those of the Head of Department/School. They may however in many instances be delegated to an undergraduate co-ordinator or be exercised through a departmental committee. Such delegations must be clearly defined. The Department/School has the responsibility

- a. to encourage staff to participate in workshops, seminars and forums relating to teaching (including those that relate to teaching cross culturally and acquiring skills in non-discriminatory teaching practice), learning and assessment organised by departments, faculties, clinical schools and/or the Centre for Teaching and Learning
- b. to provide no later than the end of the first week of the commencement of a subject accurate written information concerning all relevant aspects of chosen subjects and to further provide written advice of the aims and objectives of each course, attendance and class requirements, the methods of assessment to be used and the weighting of that assessment
- c. to return assessed written work (excluding examination scripts) within a reasonable time with comments appropriate to the assessment
- d. to ensure that all assessment is appropriately related to the objectives of the subject
- e. to grant special consideration or make special arrangements where performance is adversely affected by documented illness, disability or other serious cause
- f. to provide access by appointment to academic staff outside timetabled class time
- g. where appropriate to have students on departmental committees, who will be provided with the same information as other committee members, to enable them to be as effective as possible
- h. to ensure that courses use relevant teaching and learning strategies, including, where appropriate, contemporary information and learning technology tools.

D RESPONSIBILITIES OF STUDENTS

Each student has a responsibility

- a. to be familiar with both the legislative and other requirements for the degree as set out in the faculty handbooks, or included in any other published departmental and faculty guidelines
- b. to ensure that all administrative requirements of the faculty and University, such as re-enrolling each year, are met
- c. to adhere to attendance and assessment requirements that are prescribed by the University, faculty and department/school
- d. to adhere to the relevant by-laws and rules relating to ethical behaviour and good conduct that are prescribed by the University and relevant professional bodies.

Copies of this policy can be obtained at the following web address:

<http://www.usyd.edu.au/su/planning/policy/>

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